



**INTEGRATED RESOURCE PLANNING REPORT
TO THE
INDIANA UTILITY REGULATORY COMMISSION**

Appendix – Volume 2

**Submitted Pursuant to
Commission Rule 170 IAC 4-7**

July 1, 2019

Exhibit H

Indiana Michigan Power Company

Model Equations

Results of Statistical Tests and Input Data Sets

Pertaining to the 2019 Load Forecast

Contents

Included herein are input data, model equations, and statistical results for the numerous forecasting models employed in developing the 2019 Load Forecast for Indiana Michigan Power Company. Those forecasted concepts that are produced judgmentally, without the use of econometric models, are not shown. The pages included are as output from the computer model. That output contains a data glossary, identifying the names of variables appearing in the models (or the variables labeled in the equations). The models are shown in the following order:

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SHORT-TERM CUSTOMERS

Indiana Michigan Power Company-Indiana and Michigan
Retail Customers
Input Data Glossary

cust-customers

revcls-revenue class (1-residential; 2-commercial; 3.1-industrial; 3.2 n/a; 4-other retail)

time-trend

res1-residential binary variable

res2-residential binary variable

res3-residential binary variable

res4-residential binary variable

res5-residential binary variable

res6-residential binary variable

com1-commercial binary variable

com2-commercial binary variable

com3-commercial binary variable

com4-commercial binary variable

com4t-commercial binary variable

com5-commercial binary variable

com6-commercial binary variable

com7-commercial binary variable

ind1-industrial binary variable

ind2-industrial binary variable

ind3-industrial binary variable

ind3slope-industrial binary variable

ind4-industrial binary variable

ind5-industrial binary variable

ind6-industrial binary variable

ind7-industrial binary variable

ind8-industrial binary variable

ind9-industrial binary variable

or1-other retail binary variable

or2-other retail binary variable

or3-other retail binary variable

or4-other retail binary variable

or5-other retail binary variable

or6-other retail binary variable

or7-other retail binary variable

or8-other retail binary variable

or9-other retail binary variable

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2008	6	6	1	8-Jun	0	0	0	0	0	0	0
4	2008	6	1701	8-Jun	0	0	0	0	0	0	0	0
1	2008	7	397520	8-Jul	0	0	0	0	0	0	0	0
2	2008	7	51128	8-Jul	0	0	0	0	0	0	0	0
3.1	2008	7	4167	8-Jul	0	0	0	0	0	0	0	0
3.2	2008	7	9	8-Jul	0	0	0	0	0	0	0	0
3.4	2008	7	1	8-Jul	0	0	0	0	0	0	0	0
4	2008	7	1687	8-Jul	0	0	0	0	0	0	0	0
1	2008	8	397862	8-Aug	0	0	0	0	0	0	0	0
2	2008	8	51223	8-Aug	0	0	0	0	0	0	0	0
3.1	2008	8	4158	8-Aug	0	0	0	0	0	0	0	0
3.2	2008	8	9	8-Aug	0	0	0	0	0	0	0	0
3.4	2008	8	1	8-Aug	0	0	0	0	0	0	0	0
4	2008	8	1690	8-Aug	0	0	0	0	0	0	0	0
1	2008	9	397361	8-Sep	0	0	0	0	0	0	0	0
2	2008	9	51229	8-Sep	0	0	0	0	0	0	0	0
3.1	2008	9	4168	8-Sep	0	0	0	0	0	0	0	0
3.2	2008	9	9	8-Sep	0	0	0	0	0	0	0	0
3.4	2008	9	1	8-Sep	0	0	0	0	0	0	0	0
4	2008	9	1688	8-Sep	0	0	0	0	0	0	0	0
1	2008	10	397404	8-Oct	0	0	0	0	0	0	0	0
2	2008	10	51268	8-Oct	0	0	0	0	0	0	0	0
3.1	2008	10	4176	8-Oct	0	0	0	0	0	0	0	0
3.2	2008	10	9	8-Oct	0	0	0	0	0	0	0	0
3.4	2008	10	1	8-Oct	0	0	0	0	0	0	0	0
4	2008	10	1690	8-Oct	0	0	0	0	0	0	0	0
1	2008	11	397519	8-Nov	0	0	0	0	0	0	0	0
2	2008	11	51216	8-Nov	0	0	0	0	0	0	0	0
3.1	2008	11	4147	8-Nov	0	0	0	0	0	0	0	0
3.2	2008	11	9	8-Nov	0	0	0	0	0	0	0	0
3.4	2008	11	1	8-Nov	0	0	0	0	0	0	0	0
4	2008	11	1694	8-Nov	0	0	0	0	0	0	0	0
1	2008	12	398027	8-Dec	0	0	0	0	0	0	0	0
2	2008	12	50565	8-Dec	0	0	0	0	-1	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2009	11	11	1	9-Nov	0	0	0	0	0	0	0
4	2009	11	1711	1711	9-Nov	0	0	0	0	0	0	0
1	2009	12	397853	397853	9-Dec	0	0	0	0	0	0	0
2	2009	12	51250	51250	9-Dec	0	0	0	0	0	0	0
3.1	2009	12	4066	4066	9-Dec	0	0	0	0	0	0	0
3.2	2009	12	9	9	9-Dec	0	0	0	0	0	0	0
3.4	2009	12	1	1	9-Dec	0	0	0	0	0	0	0
4	2009	12	1702	1702	9-Dec	0	0	0	0	0	0	0
1	2010	1	398337	398337	10-Jan	0	0	0	0	0	0	0
2	2010	1	51470	51470	10-Jan	0	0	0	0	0	0	0
3.1	2010	1	4135	4135	10-Jan	0	0	0	0	0	0	0
3.2	2010	1	9	9	10-Jan	0	0	0	0	0	0	0
3.4	2010	1	1	1	10-Jan	0	0	0	0	0	0	0
4	2010	1	1712	1712	10-Jan	0	0	0	0	0	0	0
1	2010	2	390581	390581	10-Feb	-1	0	0	0	0	0	0
2	2010	2	50297	50297	10-Feb	0	0	0	0	-1	0	0
3.1	2010	2	3873	3873	10-Feb	0	0	0	0	0	0	0
3.2	2010	2	9	9	10-Feb	0	0	0	0	0	0	0
3.4	2010	2	1	1	10-Feb	0	0	0	0	0	0	0
4	2010	2	1668	1668	10-Feb	0	0	0	0	0	0	0
1	2010	3	407289	407289	10-Mar	1	0	0	0	0	0	0
2	2010	3	53090	53090	10-Mar	0	0	0	0	1	0	0
3.1	2010	3	4428	4428	10-Mar	0	0	0	0	0	0	0
3.2	2010	3	9	9	10-Mar	0	0	0	0	0	0	0
3.4	2010	3	1	1	10-Mar	0	0	0	0	0	0	0
4	2010	3	1738	1738	10-Mar	0	0	0	0	0	0	0
1	2010	4	397687	397687	10-Apr	0	0	0	0	0	0	0
2	2010	4	51556	51556	10-Apr	0	0	0	0	0	0	0
3.1	2010	4	4122	4122	10-Apr	0	0	0	0	0	0	0
3.2	2010	4	9	9	10-Apr	0	0	0	0	0	0	0
3.4	2010	4	1	1	10-Apr	0	0	0	0	0	0	0
4	2010	4	1690	1690	10-Apr	0	0	0	0	0	0	0
1	2010	5	396663	396663	10-May	0	0	0	0	0	0	0
2	2010	5	51454	51454	10-May	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2011	4	4	1	11-Apr	0	0	0	0	0	0	0
4	2011	4	4	1659	11-Apr	0	0	0	0	0	0	0
1	2011	5	5	397102	11-May	0	0	0	0	0	0	0
2	2011	5	5	51581	11-May	0	0	0	0	0	0	0
3.1	2011	5	5	4096	11-May	0	0	0	0	0	0	0
3.2	2011	5	5	9	11-May	0	0	0	0	0	0	0
3.4	2011	5	5	1	11-May	0	0	0	0	0	0	0
4	2011	5	5	1660	11-May	0	0	0	0	0	0	0
1	2011	6	6	396490	11-Jun	0	0	0	0	0	0	0
2	2011	6	6	51639	11-Jun	0	0	0	0	0	0	0
3.1	2011	6	6	4092	11-Jun	0	0	0	0	0	0	0
3.2	2011	6	6	9	11-Jun	0	0	0	0	0	0	0
3.4	2011	6	6	1	11-Jun	0	0	0	0	0	0	0
4	2011	6	6	1660	11-Jun	0	0	0	0	0	0	0
1	2011	7	7	396222	11-Jul	0	0	0	0	0	0	0
2	2011	7	7	51408	11-Jul	0	0	0	0	0	0	0
3.1	2011	7	7	4070	11-Jul	0	0	0	0	0	0	0
3.2	2011	7	7	9	11-Jul	0	0	0	0	0	0	0
3.4	2011	7	7	1	11-Jul	0	0	0	0	0	0	0
4	2011	7	7	1657	11-Jul	0	0	0	0	0	0	0
1	2011	8	8	396967	11-Aug	0	0	0	0	0	0	0
2	2011	8	8	51812	11-Aug	0	0	0	0	0	0	0
3.1	2011	8	8	4106	11-Aug	0	0	0	0	0	0	0
3.2	2011	8	8	9	11-Aug	0	0	0	0	0	0	0
3.4	2011	8	8	1	11-Aug	0	0	0	0	0	0	0
4	2011	8	8	1655	11-Aug	0	0	0	0	0	0	0
1	2011	9	9	396809	11-Sep	0	0	0	0	0	0	0
2	2011	9	9	51594	11-Sep	0	0	0	0	0	0	0
3.1	2011	9	9	4097	11-Sep	0	0	0	0	0	0	0
3.2	2011	9	9	9	11-Sep	0	0	0	0	0	0	0
3.4	2011	9	9	1	11-Sep	0	0	0	0	0	0	0
4	2011	9	9	1521	11-Sep	0	0	0	0	0	0	0
1	2011	10	10	396623	11-Oct	0	0	0	0	0	0	0
2	2011	10	10	51627	11-Oct	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2012	9	9	1	12-Sep	0	0	0	0	0	0	0
4	2012	9	1649	1649	12-Sep	0	0	0	0	0	0	0
1	2012	10	398003	398003	12-Oct	0	0	0	0	0	0	0
2	2012	10	51960	51960	12-Oct	0	0	0	0	0	0	0
3.1	2012	10	4098	4098	12-Oct	0	0	0	0	0	0	0
3.2	2012	10	9	9	12-Oct	0	0	0	0	0	0	0
3.4	2012	10	1	1	12-Oct	0	0	0	0	0	0	0
4	2012	10	1644	1644	12-Oct	0	0	0	0	0	0	0
1	2012	11	398380	398380	12-Nov	0	0	0	0	0	0	0
2	2012	11	51861	51861	12-Nov	0	0	0	0	0	0	0
3.1	2012	11	4077	4077	12-Nov	0	0	0	0	0	0	0
3.2	2012	11	9	9	12-Nov	0	0	0	0	0	0	0
3.4	2012	11	1	1	12-Nov	0	0	0	0	0	0	0
4	2012	11	1657	1657	12-Nov	0	0	0	0	0	0	0
1	2012	12	398898	398898	12-Dec	0	0	0	0	0	0	0
2	2012	12	51856	51856	12-Dec	0	0	0	0	0	0	0
3.1	2012	12	4061	4061	12-Dec	0	0	0	0	0	0	0
3.2	2012	12	9	9	12-Dec	0	0	0	0	0	0	0
3.4	2012	12	1	1	12-Dec	0	0	0	0	0	0	0
4	2012	12	1655	1655	12-Dec	0	0	0	0	0	0	0
1	2013	1	400484	400484	13-Jan	0	0	0	0	0	0	0
2	2013	1	52024	52024	13-Jan	0	0	0	0	0	0	0
3.1	2013	1	4102	4102	13-Jan	0	0	0	0	0	0	0
3.2	2013	1	9	9	13-Jan	0	0	0	0	0	0	0
3.4	2013	1	1	1	13-Jan	0	0	0	0	0	0	0
4	2013	1	1654	1654	13-Jan	0	0	0	0	0	0	0
1	2013	2	399800	399800	13-Feb	0	0	0	0	0	0	0
2	2013	2	51828	51828	13-Feb	0	0	0	0	0	0	0
3.1	2013	2	4070	4070	13-Feb	0	0	0	0	0	0	0
3.2	2013	2	9	9	13-Feb	0	0	0	0	0	0	0
3.4	2013	2	1	1	13-Feb	0	0	0	0	0	0	0
4	2013	2	1720	1720	13-Feb	0	0	0	0	0	0	0
1	2013	3	400332	400332	13-Mar	0	0	0	0	0	0	0
2	2013	3	51131	51131	13-Mar	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2016	12	12	1	16-Dec	0	0	0	0	0	0	0
4	2016	12	1606	1606	16-Dec	0	0	0	0	0	0	0
1	2017	1	405414	17-Jan	17-Jan	0	0	0	0	0	0	0
2	2017	1	52791	17-Jan	17-Jan	0	0	0	0	0	0	0
3.1	2017	1	3982	17-Jan	17-Jan	0	0	0	0	0	0	0
3.2	2017	1	9	17-Jan	17-Jan	0	0	0	0	0	0	0
3.4	2017	1	1	17-Jan	17-Jan	0	0	0	0	0	0	0
4	2017	1	1596	17-Jan	17-Jan	0	0	0	0	0	0	0
1	2017	2	405081	17-Feb	17-Feb	0	0	0	0	0	0	0
2	2017	2	52733	17-Feb	17-Feb	0	0	0	0	0	0	0
3.1	2017	2	3974	17-Feb	17-Feb	0	0	0	0	0	0	0
3.2	2017	2	9	17-Feb	17-Feb	0	0	0	0	0	0	0
3.4	2017	2	1	17-Feb	17-Feb	0	0	0	0	0	0	0
4	2017	2	1590	17-Feb	17-Feb	0	0	0	0	0	0	0
1	2017	3	405127	17-Mar	17-Mar	0	0	0	0	0	0	0
2	2017	3	53051	17-Mar	17-Mar	0	0	0	0	0	0	0
3.1	2017	3	4002	17-Mar	17-Mar	0	0	0	0	0	0	0
3.2	2017	3	9	17-Mar	17-Mar	0	0	0	0	0	0	0
3.4	2017	3	1	17-Mar	17-Mar	0	0	0	0	0	0	0
4	2017	3	1601	17-Mar	17-Mar	0	0	0	0	0	0	0
1	2017	4	404607	17-Apr	17-Apr	0	0	0	0	0	0	0
2	2017	4	53006	17-Apr	17-Apr	0	0	0	0	0	0	0
3.1	2017	4	3976	17-Apr	17-Apr	0	0	0	0	0	0	0
3.2	2017	4	9	17-Apr	17-Apr	0	0	0	0	0	0	0
3.4	2017	4	1	17-Apr	17-Apr	0	0	0	0	0	0	0
4	2017	4	1602	17-Apr	17-Apr	0	0	0	0	0	0	0
1	2017	5	404265	17-May	17-May	0	0	0	0	0	0	0
2	2017	5	52960	17-May	17-May	0	0	0	0	0	0	0
3.1	2017	5	3989	17-May	17-May	0	0	0	0	0	0	0
3.2	2017	5	9	17-May	17-May	0	0	0	0	0	0	0
3.4	2017	5	1	17-May	17-May	0	0	0	0	0	0	0
4	2017	5	1585	17-May	17-May	0	0	0	0	0	0	0
1	2017	6	403913	17-Jun	17-Jun	0	0	0	0	0	0	0
2	2017	6	52959	17-Jun	17-Jun	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	com1	com2	com3	com4	com5
3.4	2018	5	5	1	18-May	0	0	0	0	0	0	0
4	2018	5	5	1572	18-May	0	0	0	0	0	0	0
1	2018	6	6	406100	18-Jun	0	0	0	0	0	0	0
2	2018	6	6	53202	18-Jun	0	0	0	0	0	0	0
3.1	2018	6	6	3953	18-Jun	0	0	0	0	0	0	0
3.2	2018	6	6	9	18-Jun	0	0	0	0	0	0	0
3.4	2018	6	6	1	18-Jun	0	0	0	0	0	0	0
4	2018	6	6	1400	18-Jun	0	0	0	0	0	0	0
1	2018	7	7	406187	18-Jul	0	0	0	0	0	0	0
2	2018	7	7	53384	18-Jul	0	0	0	0	0	0	0
3.1	2018	7	7	3995	18-Jul	0	0	0	0	0	0	0
3.2	2018	7	7	9	18-Jul	0	0	0	0	0	0	0
3.4	2018	7	7	1	18-Jul	0	0	0	0	0	0	0
4	2018	7	7	1739	18-Jul	0	0	0	0	0	0	0
1	2018	8	8	406454	18-Aug	0	0	0	0	0	0	0
2	2018	8	8	53327	18-Aug	0	0	0	0	0	0	0
3.1	2018	8	8	3993	18-Aug	0	0	0	0	0	0	0
3.2	2018	8	8	9	18-Aug	0	0	0	0	0	0	0
3.4	2018	8	8	1	18-Aug	0	0	0	0	0	0	0
4	2018	8	8	1569	18-Aug	0	0	0	0	0	0	0
1	2018	9	9	406721	18-Sep	0	0	0	0	0	0	0
2	2018	9	9	53673	18-Sep	0	0	0	0	0	0	0
3.1	2018	9	9	3981	18-Sep	0	0	0	0	0	0	0
3.2	2018	9	9	9	18-Sep	0	0	0	0	0	0	0
3.4	2018	9	9	1	18-Sep	0	0	0	0	0	0	0
4	2018	9	9	1566	18-Sep	0	0	0	0	0	0	0
1	2018	10	10	407559	18-Oct	0	0	0	0	0	0	0
2	2018	10	10	53418	18-Oct	0	0	0	0	0	0	0
3.1	2018	10	10	3984	18-Oct	0	0	0	0	0	0	0
3.2	2018	10	10	9	18-Oct	0	0	0	0	0	0	0
3.4	2018	10	10	1	18-Oct	0	0	0	0	0	0	0
4	2018	10	10	1567	18-Oct	0	0	0	0	0	0	0
1	2018	11	11	407597	18-Nov	0	0	0	0	0	0	0
2	2018	11	11	53734	18-Nov	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2008	12		0	1	-1	0	0	0	0	0	0
3.2	2008	12		0	0	0	0	0	0	0	0	0
3.4	2008	12		0	0	0	0	0	0	0	0	0
4	2008	12		0	0	0	0	0	0	0	0	0
1	2009	1		0	1	0	0	0	0	0	0	0
2	2009	1		0	1	0	0	0	0	0	0	0
3.1	2009	1		0	1	1	0	0	0	0	0	0
3.2	2009	1		0	1	0	0	0	0	0	0	0
3.4	2009	1		0	1	0	0	0	0	0	0	0
4	2009	1		0	1	0	0	0	0	0	0	0
1	2009	2		0	1	0	0	0	0	0	0	0
2	2009	2		0	1	0	0	0	0	0	0	0
3.1	2009	2		0	1	0	0	0	0	0	0	0
3.2	2009	2		0	1	0	0	0	0	0	0	0
3.4	2009	2		0	1	0	0	0	0	0	0	0
4	2009	2		0	1	0	0	0	0	0	0	0
1	2009	3		0	1	0	0	0	0	0	0	0
2	2009	3		0	1	0	0	0	0	0	0	0
3.1	2009	3		0	1	0	0	0	0	0	0	1
3.2	2009	3		0	1	0	0	0	0	0	0	0
3.4	2009	3		0	1	0	0	0	0	0	0	0
4	2009	3		0	1	0	0	0	0	0	0	0
1	2009	4		0	1	0	0	0	0	0	0	0
2	2009	4		0	1	0	0	0	0	0	0	0
3.1	2009	4		0	1	0	0	0	0	0	0	0
3.2	2009	4		0	1	0	0	0	0	0	0	0
3.4	2009	4		0	1	0	0	0	0	0	0	0
4	2009	4		0	1	0	0	0	0	0	0	0
1	2009	5		0	1	0	0	0	0	0	0	0
2	2009	5		0	1	0	0	0	0	0	0	0
3.1	2009	5		0	1	0	0	0	0	0	0	0
3.2	2009	5		0	1	0	0	0	0	0	0	0
3.4	2009	5		0	1	0	0	0	0	0	0	0
4	2009	5		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2009	6	6	0	1	0	0	0	0	0	0	0
2	2009	6	6	0	1	0	0	0	0	0	0	0
3.1	2009	6	6	0	1	0	0	0	0	0	0	0
3.2	2009	6	6	0	1	0	0	0	0	0	0	0
3.4	2009	6	6	0	1	0	0	0	0	0	0	0
4	2009	6	6	0	1	0	0	0	0	0	0	0
1	2009	7	7	0	1	0	0	0	0	0	0	0
2	2009	7	7	0	1	0	0	0	0	0	0	0
3.1	2009	7	7	0	1	0	0	0	0	0	0	0
3.2	2009	7	7	0	1	0	0	0	0	0	0	0
3.4	2009	7	7	0	1	0	0	0	0	0	0	0
4	2009	7	7	0	1	0	0	0	0	0	0	0
1	2009	8	8	0	1	0	0	0	0	0	0	0
2	2009	8	8	0	1	0	0	0	0	0	0	0
3.1	2009	8	8	0	1	0	0	0	0	0	0	0
3.2	2009	8	8	0	1	0	0	0	0	0	0	0
3.4	2009	8	8	0	1	0	0	0	0	0	0	0
4	2009	8	8	0	1	0	0	0	0	0	0	0
1	2009	9	9	0	1	0	0	0	0	0	0	0
2	2009	9	9	0	1	0	0	0	0	0	0	0
3.1	2009	9	9	0	1	0	0	0	0	0	0	0
3.2	2009	9	9	0	1	0	0	0	0	0	0	0
3.4	2009	9	9	0	1	0	0	0	0	0	0	0
4	2009	9	9	0	1	0	0	0	0	0	0	0
1	2009	10	10	0	1	0	0	0	0	0	0	0
2	2009	10	10	0	1	0	0	0	0	0	0	0
3.1	2009	10	10	0	1	0	0	0	0	0	0	0
3.2	2009	10	10	0	1	0	0	0	0	0	0	0
3.4	2009	10	10	0	1	0	0	0	0	0	0	0
4	2009	10	10	0	1	0	0	0	0	0	0	0
1	2009	11	11	0	1	0	0	0	0	0	0	0
2	2009	11	11	0	1	0	0	0	0	0	0	0
3.1	2009	11	11	0	1	0	0	0	0	0	0	0
3.2	2009	11	11	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2009	11		0	1	0	0	0	0	0	0	0
4	2009	11		0	1	0	0	0	0	0	0	0
1	2009	12		0	1	0	0	0	0	0	0	0
2	2009	12		0	1	0	0	0	0	0	0	0
3.1	2009	12		0	1	0	0	0	0	1	0	0
3.2	2009	12		0	1	0	0	0	0	0	0	0
3.4	2009	12		0	1	0	0	0	0	0	0	0
4	2009	12		0	1	0	0	0	0	0	0	0
1	2010	1		0	1	0	0	0	0	0	0	0
2	2010	1		0	1	0	0	0	0	0	0	0
3.1	2010	1		0	1	0	0	0	0	0	0	0
3.2	2010	1		0	1	0	0	0	0	0	0	0
3.4	2010	1		0	1	0	0	0	0	0	0	0
4	2010	1		0	1	0	0	0	0	0	0	0
1	2010	2		0	1	0	0	0	0	0	0	0
2	2010	2		0	1	0	0	0	0	0	0	0
3.1	2010	2		0	1	0	-1	0	0	0	0	0
3.2	2010	2		0	1	0	0	0	0	0	0	0
3.4	2010	2		0	1	0	0	0	0	0	0	0
4	2010	2		0	1	0	0	0	0	0	0	0
1	2010	3		0	1	0	0	0	0	0	0	0
2	2010	3		0	1	0	0	0	0	0	0	0
3.1	2010	3		0	1	0	1	0	0	0	0	0
3.2	2010	3		0	1	0	0	0	0	0	0	0
3.4	2010	3		0	1	0	0	0	0	0	0	0
4	2010	3		0	1	0	0	0	0	0	0	0
1	2010	4		0	1	0	0	0	0	0	0	0
2	2010	4		0	1	0	0	0	0	0	0	0
3.1	2010	4		0	1	0	0	0	0	0	0	0
3.2	2010	4		0	1	0	0	0	0	0	0	0
3.4	2010	4		0	1	0	0	0	0	0	0	0
4	2010	4		0	1	0	0	0	0	0	0	0
1	2010	5		0	1	0	0	0	0	0	0	0
2	2010	5		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2010	5	5	0	1	0	0	0	0	0	0	0
3.2	2010	5	5	0	1	0	0	0	0	0	0	0
3.4	2010	5	5	0	1	0	0	0	0	0	0	0
4	2010	5	5	0	1	0	0	0	0	0	0	0
1	2010	6	6	0	1	0	0	0	0	0	0	0
2	2010	6	6	0	1	0	0	0	0	0	0	0
3.1	2010	6	6	0	1	0	0	0	0	0	0	0
3.2	2010	6	6	0	1	0	0	0	0	0	0	0
3.4	2010	6	6	0	1	0	0	0	0	0	0	0
4	2010	6	6	0	1	0	0	0	0	0	0	0
1	2010	7	7	0	1	0	0	0	0	0	0	0
2	2010	7	7	0	1	0	0	0	0	0	0	0
3.1	2010	7	7	0	1	0	0	0	0	0	0	0
3.2	2010	7	7	0	1	0	0	0	0	0	0	0
3.4	2010	7	7	0	1	0	0	0	0	0	0	0
4	2010	7	7	0	1	0	0	0	0	0	0	0
1	2010	8	8	0	1	0	0	0	0	0	0	0
2	2010	8	8	0	1	0	0	0	0	0	0	0
3.1	2010	8	8	0	1	0	0	0	0	0	0	0
3.2	2010	8	8	0	1	0	0	0	0	0	0	0
3.4	2010	8	8	0	1	0	0	0	0	0	0	0
4	2010	8	8	0	1	0	0	0	0	0	0	0
1	2010	9	9	0	1	0	0	0	0	0	0	0
2	2010	9	9	0	1	0	0	0	0	0	0	0
3.1	2010	9	9	0	1	0	0	0	0	0	0	0
3.2	2010	9	9	0	1	0	0	0	0	0	0	0
3.4	2010	9	9	0	1	0	0	0	0	0	0	0
4	2010	9	9	0	1	0	0	0	0	0	0	0
1	2010	10	10	0	1	0	0	0	0	0	0	0
2	2010	10	10	0	1	0	0	0	0	0	0	0
3.1	2010	10	10	0	1	0	0	0	0	0	0	0
3.2	2010	10	10	0	1	0	0	0	0	0	0	0
3.4	2010	10	10	0	1	0	0	0	0	0	0	0
4	2010	10	10	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2010	11		0	1	0	0	0	0	0	0	0
2	2010	11		0	1	0	0	0	0	0	0	0
3.1	2010	11		0	1	0	0	0	0	0	0	0
3.2	2010	11		0	1	0	0	0	0	0	0	0
3.4	2010	11		0	1	0	0	0	0	0	0	0
4	2010	11		0	1	0	0	0	0	0	0	0
1	2010	12		0	1	0	0	0	0	0	0	0
2	2010	12		0	1	0	0	0	0	0	0	0
3.1	2010	12		0	1	0	0	0	0	0	1	0
3.2	2010	12		0	1	0	0	0	0	0	0	0
3.4	2010	12		0	1	0	0	0	0	0	0	0
4	2010	12		0	1	0	0	0	0	0	0	0
1	2011	1		0	1	0	0	0	0	0	0	0
2	2011	1		0	1	0	0	0	0	0	0	0
3.1	2011	1		0	1	0	0	0	0	0	0	0
3.2	2011	1		0	1	0	0	0	0	0	0	0
3.4	2011	1		0	1	0	0	0	0	0	0	0
4	2011	1		0	1	0	0	0	0	0	0	0
1	2011	2		0	1	0	0	0	0	0	0	0
2	2011	2		0	1	0	0	0	0	0	0	0
3.1	2011	2		0	1	0	0	1	0	0	0	0
3.2	2011	2		0	1	0	0	0	0	0	0	0
3.4	2011	2		0	1	0	0	0	0	0	0	0
4	2011	2		0	1	0	0	0	0	0	0	0
1	2011	3		0	1	0	0	0	0	0	0	0
2	2011	3		0	1	0	0	0	0	0	0	0
3.1	2011	3		0	1	0	0	0	1	0	0	0
3.2	2011	3		0	1	0	0	0	0	0	0	0
3.4	2011	3		0	1	0	0	0	0	0	0	0
4	2011	3		0	1	0	0	0	0	0	0	0
1	2011	4		0	1	0	0	0	0	0	0	0
2	2011	4		0	1	0	0	0	0	0	0	0
3.1	2011	4		0	1	0	0	0	0	0	0	0
3.2	2011	4		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2011	4	4	0	1	0	0	0	0	0	0	0
4	2011	4	4	0	1	0	0	0	0	0	0	0
1	2011	5	5	0	1	0	0	0	0	0	0	0
2	2011	5	5	0	1	0	0	0	0	0	0	0
3.1	2011	5	5	0	1	0	0	0	0	0	0	0
3.2	2011	5	5	0	1	0	0	0	0	0	0	0
3.4	2011	5	5	0	1	0	0	0	0	0	0	0
4	2011	5	5	0	1	0	0	0	0	0	0	0
1	2011	6	6	0	1	0	0	0	0	0	0	0
2	2011	6	6	0	1	0	0	0	0	0	0	0
3.1	2011	6	6	0	1	0	0	0	0	0	0	0
3.2	2011	6	6	0	1	0	0	0	0	0	0	0
3.4	2011	6	6	0	1	0	0	0	0	0	0	0
4	2011	6	6	0	1	0	0	0	0	0	0	0
1	2011	7	7	0	1	0	0	0	0	0	0	0
2	2011	7	7	0	1	0	0	0	0	0	0	0
3.1	2011	7	7	0	1	0	0	0	0	0	0	0
3.2	2011	7	7	0	1	0	0	0	0	0	0	0
3.4	2011	7	7	0	1	0	0	0	0	0	0	0
4	2011	7	7	0	1	0	0	0	0	0	0	0
1	2011	8	8	0	1	0	0	0	0	0	0	0
2	2011	8	8	0	1	0	0	0	0	0	0	0
3.1	2011	8	8	0	1	0	0	0	0	0	0	0
3.2	2011	8	8	0	1	0	0	0	0	0	0	0
3.4	2011	8	8	0	1	0	0	0	0	0	0	0
4	2011	8	8	0	1	0	0	0	0	0	0	0
1	2011	9	9	0	1	0	0	0	0	0	0	0
2	2011	9	9	0	1	0	0	0	0	0	0	0
3.1	2011	9	9	0	1	0	0	0	0	0	0	0
3.2	2011	9	9	0	1	0	0	0	0	0	0	0
3.4	2011	9	9	0	1	0	0	0	0	0	0	0
4	2011	9	9	0	1	0	0	0	0	0	0	0
1	2011	10	10	0	1	0	0	0	0	0	0	0
2	2011	10	10	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2011	10		0	1	0	0	0	0	0	0	0
3.2	2011	10		0	1	0	0	0	0	0	0	0
3.4	2011	10		0	1	0	0	0	0	0	0	0
4	2011	10		0	1	0	0	0	0	0	0	0
1	2011	11		0	1	0	0	0	0	0	0	0
2	2011	11		0	1	0	0	0	0	0	0	0
3.1	2011	11		0	1	0	0	0	0	0	0	0
3.2	2011	11		0	1	0	0	0	0	0	0	0
3.4	2011	11		0	1	0	0	0	0	0	0	0
4	2011	11		0	1	0	0	0	0	0	0	0
1	2011	12		0	1	0	0	0	0	0	0	0
2	2011	12		0	1	0	0	0	0	0	0	0
3.1	2011	12		0	1	0	0	0	0	0	0	0
3.2	2011	12		0	1	0	0	0	0	0	0	0
3.4	2011	12		0	1	0	0	0	0	0	0	0
4	2011	12		0	1	0	0	0	0	0	0	0
1	2012	1		0	1	0	0	0	0	0	0	0
2	2012	1		0	1	0	0	0	0	0	0	0
3.1	2012	1		0	1	0	0	0	0	0	0	0
3.2	2012	1		0	1	0	0	0	0	0	0	0
3.4	2012	1		0	1	0	0	0	0	0	0	0
4	2012	1		0	1	0	0	0	0	0	0	0
1	2012	2		0	1	0	0	0	0	0	0	0
2	2012	2		0	1	0	0	0	0	0	0	0
3.1	2012	2		0	1	0	0	0	0	0	0	0
3.2	2012	2		0	1	0	0	0	0	0	0	0
3.4	2012	2		0	1	0	0	0	0	0	0	0
4	2012	2		0	1	0	0	0	0	0	0	0
1	2012	3		0	1	0	0	0	0	0	0	0
2	2012	3		0	1	0	0	0	0	0	0	0
3.1	2012	3		0	1	0	0	0	0	0	0	0
3.2	2012	3		0	1	0	0	0	0	0	0	0
3.4	2012	3		0	1	0	0	0	0	0	0	0
4	2012	3		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2012	4	4	0	1	0	0	0	0	0	0	0
2	2012	4	4	0	1	0	0	0	0	0	0	0
3.1	2012	4	4	0	1	0	0	0	0	0	0	0
3.2	2012	4	4	0	1	0	0	0	0	0	0	0
3.4	2012	4	4	0	1	0	0	0	0	0	0	0
4	2012	4	4	0	1	0	0	0	0	0	0	0
1	2012	5	5	0	1	0	0	0	0	0	0	0
2	2012	5	5	0	1	0	0	0	0	0	0	0
3.1	2012	5	5	0	1	0	0	0	0	0	0	0
3.2	2012	5	5	0	1	0	0	0	0	0	0	0
3.4	2012	5	5	0	1	0	0	0	0	0	0	0
4	2012	5	5	0	1	0	0	0	0	0	0	0
1	2012	6	6	0	1	0	0	0	0	0	0	0
2	2012	6	6	0	1	0	0	0	0	0	0	0
3.1	2012	6	6	0	1	0	0	0	0	0	0	0
3.2	2012	6	6	0	1	0	0	0	0	0	0	0
3.4	2012	6	6	0	1	0	0	0	0	0	0	0
4	2012	6	6	0	1	0	0	0	0	0	0	0
1	2012	7	7	0	1	0	0	0	0	0	0	0
2	2012	7	7	0	1	0	0	0	0	0	0	0
3.1	2012	7	7	0	1	0	0	0	0	0	0	0
3.2	2012	7	7	0	1	0	0	0	0	0	0	0
3.4	2012	7	7	0	1	0	0	0	0	0	0	0
4	2012	7	7	0	1	0	0	0	0	0	0	0
1	2012	8	8	0	1	0	0	0	0	0	0	0
2	2012	8	8	0	1	0	0	0	0	0	0	0
3.1	2012	8	8	0	1	0	0	0	0	0	0	0
3.2	2012	8	8	0	1	0	0	0	0	0	0	0
3.4	2012	8	8	0	1	0	0	0	0	0	0	0
4	2012	8	8	0	1	0	0	0	0	0	0	0
1	2012	9	9	0	1	0	0	0	0	0	0	0
2	2012	9	9	0	1	0	0	0	0	0	0	0
3.1	2012	9	9	0	1	0	0	0	0	0	0	0
3.2	2012	9	9	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2012	9	9	0	1	0	0	0	0	0	0	0
4	2012	9	9	0	1	0	0	0	0	0	0	0
1	2012	10	10	0	1	0	0	0	0	0	0	0
2	2012	10	10	0	1	0	0	0	0	0	0	0
3.1	2012	10	10	0	1	0	0	0	0	0	0	0
3.2	2012	10	10	0	1	0	0	0	0	0	0	0
3.4	2012	10	10	0	1	0	0	0	0	0	0	0
4	2012	10	10	0	1	0	0	0	0	0	0	0
1	2012	11	11	0	1	0	0	0	0	0	0	0
2	2012	11	11	0	1	0	0	0	0	0	0	0
3.1	2012	11	11	0	1	0	0	0	0	0	0	0
3.2	2012	11	11	0	1	0	0	0	0	0	0	0
3.4	2012	11	11	0	1	0	0	0	0	0	0	0
4	2012	11	11	0	1	0	0	0	0	0	0	0
1	2012	12	12	0	1	0	0	0	0	0	0	0
2	2012	12	12	0	1	0	0	0	0	0	0	0
3.1	2012	12	12	0	1	0	0	0	0	0	0	0
3.2	2012	12	12	0	1	0	0	0	0	0	0	0
3.4	2012	12	12	0	1	0	0	0	0	0	0	0
4	2012	12	12	0	1	0	0	0	0	0	0	0
1	2013	1	1	0	1	0	0	0	0	0	0	0
2	2013	1	1	0	1	0	0	0	0	0	0	0
3.1	2013	1	1	0	1	0	0	0	0	0	0	0
3.2	2013	1	1	0	1	0	0	0	0	0	0	0
3.4	2013	1	1	0	1	0	0	0	0	0	0	0
4	2013	1	1	0	1	0	0	0	0	0	0	0
1	2013	2	2	0	1	0	0	0	0	0	0	0
2	2013	2	2	0	1	0	0	0	0	0	0	0
3.1	2013	2	2	0	1	0	0	0	0	0	0	0
3.2	2013	2	2	0	1	0	0	0	0	0	0	0
3.4	2013	2	2	0	1	0	0	0	0	0	0	0
4	2013	2	2	0	1	0	0	0	0	0	0	0
1	2013	3	3	0	1	0	0	0	0	0	0	0
2	2013	3	3	-1	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2013	9	9	0	1	0	0	0	0	0	0	0
2	2013	9	9	0	1	0	0	0	0	0	0	0
3.1	2013	9	9	0	1	0	0	0	0	0	0	0
3.2	2013	9	9	0	1	0	0	0	0	0	0	0
3.4	2013	9	9	0	1	0	0	0	0	0	0	0
4	2013	9	9	0	1	0	0	0	0	0	0	0
1	2013	10	10	0	1	0	0	0	0	0	0	0
2	2013	10	10	0	1	0	0	0	0	0	0	0
3.1	2013	10	10	0	1	0	0	0	0	0	0	0
3.2	2013	10	10	0	1	0	0	0	0	0	0	0
3.4	2013	10	10	0	1	0	0	0	0	0	0	0
4	2013	10	10	0	1	0	0	0	0	0	0	0
1	2013	11	11	0	1	0	0	0	0	0	0	0
2	2013	11	11	0	1	0	0	0	0	0	0	0
3.1	2013	11	11	0	1	0	0	0	0	0	0	0
3.2	2013	11	11	0	1	0	0	0	0	0	0	0
3.4	2013	11	11	0	1	0	0	0	0	0	0	0
4	2013	11	11	0	1	0	0	0	0	0	0	0
1	2013	12	12	0	1	0	0	0	0	0	0	0
2	2013	12	12	0	1	0	0	0	0	0	0	0
3.1	2013	12	12	0	1	0	0	0	0	0	0	0
3.2	2013	12	12	0	1	0	0	0	0	0	0	0
3.4	2013	12	12	0	1	0	0	0	0	0	0	0
4	2013	12	12	0	1	0	0	0	0	0	0	0
1	2014	1	1	0	1	0	0	0	0	0	0	0
2	2014	1	1	0	1	0	0	0	0	0	0	0
3.1	2014	1	1	0	1	0	0	0	0	0	0	0
3.2	2014	1	1	0	1	0	0	0	0	0	0	0
3.4	2014	1	1	0	1	0	0	0	0	0	0	0
4	2014	1	1	0	1	0	0	0	0	0	0	0
1	2014	2	2	0	1	0	0	0	0	0	0	0
2	2014	2	2	0	1	0	0	0	0	0	0	0
3.1	2014	2	2	0	1	0	0	0	0	0	0	0
3.2	2014	2	2	0	1	0	0	0	0	0	0	0

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Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2014	8	8	0	1	0	0	0	0	0	0	0
3.2	2014	8	8	0	1	0	0	0	0	0	0	0
3.4	2014	8	8	0	1	0	0	0	0	0	0	0
4	2014	8	8	0	1	0	0	0	0	0	0	0
1	2014	9	9	0	1	0	0	0	0	0	0	0
2	2014	9	9	0	1	0	0	0	0	0	0	0
3.1	2014	9	9	0	1	0	0	0	0	0	0	0
3.2	2014	9	9	0	1	0	0	0	0	0	0	0
3.4	2014	9	9	0	1	0	0	0	0	0	0	0
4	2014	9	9	0	1	0	0	0	0	0	0	0
1	2014	10	10	0	1	0	0	0	0	0	0	0
2	2014	10	10	0	1	0	0	0	0	0	0	0
3.1	2014	10	10	0	1	0	0	0	0	0	0	0
3.2	2014	10	10	0	1	0	0	0	0	0	0	0
3.4	2014	10	10	0	1	0	0	0	0	0	0	0
4	2014	10	10	0	1	0	0	0	0	0	0	0
1	2014	11	11	0	1	0	0	0	0	0	0	0
2	2014	11	11	0	1	0	0	0	0	0	0	0
3.1	2014	11	11	0	1	0	0	0	0	0	0	0
3.2	2014	11	11	0	1	0	0	0	0	0	0	0
3.4	2014	11	11	0	1	0	0	0	0	0	0	0
4	2014	11	11	0	1	0	0	0	0	0	0	0
1	2014	12	12	0	1	0	0	0	0	0	0	0
2	2014	12	12	0	1	0	0	0	0	0	0	0
3.1	2014	12	12	0	1	0	0	0	0	0	0	0
3.2	2014	12	12	0	1	0	0	0	0	0	0	0
3.4	2014	12	12	0	1	0	0	0	0	0	0	0
4	2014	12	12	0	1	0	0	0	0	0	0	0
1	2015	1	1	0	1	0	0	0	0	0	0	0
2	2015	1	1	0	1	0	0	0	0	0	0	0
3.1	2015	1	1	0	1	0	0	0	0	0	0	0
3.2	2015	1	1	0	1	0	0	0	0	0	0	0
3.4	2015	1	1	0	1	0	0	0	0	0	0	0
4	2015	1	1	0	1	0	0	0	0	0	0	0

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Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2015	2	2	0	1	0	0	0	0	0	0	0
2	2015	2	2	0	1	0	0	0	0	0	0	0
3.1	2015	2	2	0	1	0	0	0	0	0	0	0
3.2	2015	2	2	0	1	0	0	0	0	0	0	0
3.4	2015	2	2	0	1	0	0	0	0	0	0	0
4	2015	2	2	0	1	0	0	0	0	0	0	0
1	2015	3	3	0	1	0	0	0	0	0	0	0
2	2015	3	3	0	1	0	0	0	0	0	0	0
3.1	2015	3	3	0	1	0	0	0	0	0	0	0
3.2	2015	3	3	0	1	0	0	0	0	0	0	0
3.4	2015	3	3	0	1	0	0	0	0	0	0	0
4	2015	3	3	0	1	0	0	0	0	0	0	0
1	2015	4	4	0	1	0	0	0	0	0	0	0
2	2015	4	4	0	1	0	0	0	0	0	0	0
3.1	2015	4	4	0	1	0	0	0	0	0	0	0
3.2	2015	4	4	0	1	0	0	0	0	0	0	0
3.4	2015	4	4	0	1	0	0	0	0	0	0	0
4	2015	4	4	0	1	0	0	0	0	0	0	0
1	2015	5	5	0	1	0	0	0	0	0	0	0
2	2015	5	5	0	1	0	0	0	0	0	0	0
3.1	2015	5	5	0	1	0	0	0	0	0	0	0
3.2	2015	5	5	0	1	0	0	0	0	0	0	0
3.4	2015	5	5	0	1	0	0	0	0	0	0	0
4	2015	5	5	0	1	0	0	0	0	0	0	0
1	2015	6	6	0	1	0	0	0	0	0	0	0
2	2015	6	6	0	1	0	0	0	0	0	0	0
3.1	2015	6	6	0	1	0	0	0	0	0	0	0
3.2	2015	6	6	0	1	0	0	0	0	0	0	0
3.4	2015	6	6	0	1	0	0	0	0	0	0	0
4	2015	6	6	0	1	0	0	0	0	0	0	0
1	2015	7	7	0	1	0	0	0	0	0	0	0
2	2015	7	7	0	1	0	0	0	0	0	0	0
3.1	2015	7	7	0	1	0	0	0	0	0	0	0
3.2	2015	7	7	0	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2015	7	7	0	1	0	0	0	0	0	0	0
4	2015	7	7	0	1	0	0	0	0	0	0	0
1	2015	8	8	0	1	0	0	0	0	0	0	0
2	2015	8	8	0	1	0	0	0	0	0	0	0
3.1	2015	8	8	0	1	0	0	0	0	0	0	0
3.2	2015	8	8	0	1	0	0	0	0	0	0	0
3.4	2015	8	8	0	1	0	0	0	0	0	0	0
4	2015	8	8	0	1	0	0	0	0	0	0	0
1	2015	9	9	0	1	0	0	0	0	0	0	0
2	2015	9	9	0	1	0	0	0	0	0	0	0
3.1	2015	9	9	0	1	0	0	0	0	0	0	0
3.2	2015	9	9	0	1	0	0	0	0	0	0	0
3.4	2015	9	9	0	1	0	0	0	0	0	0	0
4	2015	9	9	0	1	0	0	0	0	0	0	0
1	2015	10	10	0	1	0	0	0	0	0	0	0
2	2015	10	10	0	1	0	0	0	0	0	0	0
3.1	2015	10	10	0	1	0	0	0	0	0	0	0
3.2	2015	10	10	0	1	0	0	0	0	0	0	0
3.4	2015	10	10	0	1	0	0	0	0	0	0	0
4	2015	10	10	0	1	0	0	0	0	0	0	0
1	2015	11	11	0	1	0	0	0	0	0	0	0
2	2015	11	11	0	1	0	0	0	0	0	0	0
3.1	2015	11	11	0	1	0	0	0	0	0	0	0
3.2	2015	11	11	0	1	0	0	0	0	0	0	0
3.4	2015	11	11	0	1	0	0	0	0	0	0	0
4	2015	11	11	0	1	0	0	0	0	0	0	0
1	2015	12	12	0	1	0	0	0	0	0	0	0
2	2015	12	12	0	1	0	0	0	0	0	0	0
3.1	2015	12	12	0	1	0	0	0	0	0	0	0
3.2	2015	12	12	0	1	0	0	0	0	0	0	0
3.4	2015	12	12	0	1	0	0	0	0	0	0	0
4	2015	12	12	0	1	0	0	0	0	0	0	0
1	2016	1	1	0	1	0	0	0	0	0	0	0
2	2016	1	1	0	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2016	1	1	0	1	0	0	0	0	0	0	0
3.2	2016	1	1	0	1	0	0	0	0	0	0	0
3.4	2016	1	1	0	1	0	0	0	0	0	0	0
4	2016	1	1	0	1	0	0	0	0	0	0	0
1	2016	2	2	0	1	0	0	0	0	0	0	0
2	2016	2	2	0	1	0	0	0	0	0	0	0
3.1	2016	2	2	0	1	0	0	0	0	0	0	0
3.2	2016	2	2	0	1	0	0	0	0	0	0	0
3.4	2016	2	2	0	1	0	0	0	0	0	0	0
4	2016	2	2	0	1	0	0	0	0	0	0	0
1	2016	3	3	0	1	0	0	0	0	0	0	0
2	2016	3	3	0	1	0	0	0	0	0	0	0
3.1	2016	3	3	0	1	0	0	0	0	0	0	0
3.2	2016	3	3	0	1	0	0	0	0	0	0	0
3.4	2016	3	3	0	1	0	0	0	0	0	0	0
4	2016	3	3	0	1	0	0	0	0	0	0	0
1	2016	4	4	0	1	0	0	0	0	0	0	0
2	2016	4	4	0	1	0	0	0	0	0	0	0
3.1	2016	4	4	0	1	0	0	0	0	0	0	0
3.2	2016	4	4	0	1	0	0	0	0	0	0	0
3.4	2016	4	4	0	1	0	0	0	0	0	0	0
4	2016	4	4	0	1	0	0	0	0	0	0	0
1	2016	5	5	0	1	0	0	0	0	0	0	0
2	2016	5	5	0	1	0	0	0	0	0	0	0
3.1	2016	5	5	0	1	0	0	0	0	0	0	0
3.2	2016	5	5	0	1	0	0	0	0	0	0	0
3.4	2016	5	5	0	1	0	0	0	0	0	0	0
4	2016	5	5	0	1	0	0	0	0	0	0	0
1	2016	6	6	0	1	0	0	0	0	0	0	0
2	2016	6	6	0	1	0	0	0	0	0	0	0
3.1	2016	6	6	0	1	0	0	0	0	0	0	0
3.2	2016	6	6	0	1	0	0	0	0	0	0	0
3.4	2016	6	6	0	1	0	0	0	0	0	0	0
4	2016	6	6	0	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2016	7	7	0	1	0	0	0	0	0	0	0
2	2016	7	7	0	1	0	0	0	0	0	0	0
3.1	2016	7	7	0	1	0	0	0	0	0	0	0
3.2	2016	7	7	0	1	0	0	0	0	0	0	0
3.4	2016	7	7	0	1	0	0	0	0	0	0	0
4	2016	7	7	0	1	0	0	0	0	0	0	0
1	2016	8	8	0	1	0	0	0	0	0	0	0
2	2016	8	8	0	1	0	0	0	0	0	0	0
3.1	2016	8	8	0	1	0	0	0	0	0	0	0
3.2	2016	8	8	0	1	0	0	0	0	0	0	0
3.4	2016	8	8	0	1	0	0	0	0	0	0	0
4	2016	8	8	0	1	0	0	0	0	0	0	0
1	2016	9	9	0	1	0	0	0	0	0	0	0
2	2016	9	9	0	1	0	0	0	0	0	0	0
3.1	2016	9	9	0	1	0	0	0	0	0	0	0
3.2	2016	9	9	0	1	0	0	0	0	0	0	0
3.4	2016	9	9	0	1	0	0	0	0	0	0	0
4	2016	9	9	0	1	0	0	0	0	0	0	0
1	2016	10	10	0	1	0	0	0	0	0	0	0
2	2016	10	10	0	1	0	0	0	0	0	0	0
3.1	2016	10	10	0	1	0	0	0	0	0	0	0
3.2	2016	10	10	0	1	0	0	0	0	0	0	0
3.4	2016	10	10	0	1	0	0	0	0	0	0	0
4	2016	10	10	0	1	0	0	0	0	0	0	0
1	2016	11	11	0	1	0	0	0	0	0	0	0
2	2016	11	11	0	1	0	0	0	0	0	0	0
3.1	2016	11	11	0	1	0	0	0	0	0	0	0
3.2	2016	11	11	0	1	0	0	0	0	0	0	0
3.4	2016	11	11	0	1	0	0	0	0	0	0	0
4	2016	11	11	0	1	0	0	0	0	0	0	0
1	2016	12	12	0	1	0	0	0	0	0	0	0
2	2016	12	12	0	1	0	0	0	0	0	0	0
3.1	2016	12	12	0	1	0	0	0	0	0	0	0
3.2	2016	12	12	0	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2016	12		0	1	0	0	0	0	0	0	0
4	2016	12		0	1	0	0	0	0	0	0	0
1	2017	1		0	1	0	0	0	0	0	0	0
2	2017	1		0	1	0	0	0	0	0	0	0
3.1	2017	1		0	1	0	0	0	0	0	0	0
3.2	2017	1		0	1	0	0	0	0	0	0	0
3.4	2017	1		0	1	0	0	0	0	0	0	0
4	2017	1		0	1	0	0	0	0	0	0	0
1	2017	2		0	1	0	0	0	0	0	0	0
2	2017	2		0	1	0	0	0	0	0	0	0
3.1	2017	2		0	1	0	0	0	0	0	0	0
3.2	2017	2		0	1	0	0	0	0	0	0	0
3.4	2017	2		0	1	0	0	0	0	0	0	0
4	2017	2		0	1	0	0	0	0	0	0	0
1	2017	3		0	1	0	0	0	0	0	0	0
2	2017	3		0	1	0	0	0	0	0	0	0
3.1	2017	3		0	1	0	0	0	0	0	0	0
3.2	2017	3		0	1	0	0	0	0	0	0	0
3.4	2017	3		0	1	0	0	0	0	0	0	0
4	2017	3		0	1	0	0	0	0	0	0	0
4	2017	3		0	1	0	0	0	0	0	0	0
1	2017	4		0	1	0	0	0	0	0	0	0
2	2017	4		0	1	0	0	0	0	0	0	0
3.1	2017	4		0	1	0	0	0	0	0	0	0
3.2	2017	4		0	1	0	0	0	0	0	0	0
3.4	2017	4		0	1	0	0	0	0	0	0	0
4	2017	4		0	1	0	0	0	0	0	0	0
1	2017	5		0	1	0	0	0	0	0	0	0
2	2017	5		0	1	0	0	0	0	0	0	0
3.1	2017	5		0	1	0	0	0	0	0	0	0
3.2	2017	5		0	1	0	0	0	0	0	0	0
3.4	2017	5		0	1	0	0	0	0	0	0	0
4	2017	5		0	1	0	0	0	0	0	0	0
1	2017	6		0	1	0	0	0	0	0	0	0
2	2017	6		0	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2017	6	6	0	1	0	0	0	0	0	0	0
3.2	2017	6	6	0	1	0	0	0	0	0	0	0
3.4	2017	6	6	0	1	0	0	0	0	0	0	0
4	2017	6	6	0	1	0	0	0	0	0	0	0
1	2017	7	7	0	1	0	0	0	0	0	0	0
2	2017	7	7	0	1	0	0	0	0	0	0	0
3.1	2017	7	7	0	1	0	0	0	0	0	0	0
3.2	2017	7	7	0	1	0	0	0	0	0	0	0
3.4	2017	7	7	0	1	0	0	0	0	0	0	0
4	2017	7	7	0	1	0	0	0	0	0	0	0
1	2017	8	8	0	1	0	0	0	0	0	0	0
2	2017	8	8	0	1	0	0	0	0	0	0	0
3.1	2017	8	8	0	1	0	0	0	0	0	0	0
3.2	2017	8	8	0	1	0	0	0	0	0	0	0
3.4	2017	8	8	0	1	0	0	0	0	0	0	0
4	2017	8	8	0	1	0	0	0	0	0	0	0
1	2017	9	9	0	1	0	0	0	0	0	0	0
2	2017	9	9	0	1	0	0	0	0	0	0	0
3.1	2017	9	9	0	1	0	0	0	0	0	0	0
3.2	2017	9	9	0	1	0	0	0	0	0	0	0
3.4	2017	9	9	0	1	0	0	0	0	0	0	0
4	2017	9	9	0	1	0	0	0	0	0	0	0
1	2017	10	10	0	1	0	0	0	0	0	0	0
2	2017	10	10	0	1	0	0	0	0	0	0	0
3.1	2017	10	10	0	1	0	0	0	0	0	0	0
3.2	2017	10	10	0	1	0	0	0	0	0	0	0
3.4	2017	10	10	0	1	0	0	0	0	0	0	0
4	2017	10	10	0	1	0	0	0	0	0	0	0
1	2017	11	11	0	1	0	0	0	0	0	0	0
2	2017	11	11	0	1	0	0	0	0	0	0	0
3.1	2017	11	11	0	1	0	0	0	0	0	0	0
3.2	2017	11	11	0	1	0	0	0	0	0	0	0
3.4	2017	11	11	0	1	0	0	0	0	0	0	0
4	2017	11	11	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2017	12		0	1	0	0	0	0	0	0	0
2	2017	12		0	1	0	0	0	0	0	0	0
3.1	2017	12		0	1	0	0	0	0	0	0	0
3.2	2017	12		0	1	0	0	0	0	0	0	0
3.4	2017	12		0	1	0	0	0	0	0	0	0
4	2017	12		0	1	0	0	0	0	0	0	0
1	2018	1		0	1	0	0	0	0	0	0	0
2	2018	1		0	1	0	0	0	0	0	0	0
3.1	2018	1		0	1	0	0	0	0	0	0	0
3.2	2018	1		0	1	0	0	0	0	0	0	0
3.4	2018	1		0	1	0	0	0	0	0	0	0
4	2018	1		0	1	0	0	0	0	0	0	0
1	2018	2		0	1	0	0	0	0	0	0	0
2	2018	2		0	1	0	0	0	0	0	0	0
3.1	2018	2		0	1	0	0	0	0	0	0	0
3.2	2018	2		0	1	0	0	0	0	0	0	0
3.4	2018	2		0	1	0	0	0	0	0	0	0
4	2018	2		0	1	0	0	0	0	0	0	0
1	2018	3		0	1	0	0	0	0	0	0	0
2	2018	3		0	1	0	0	0	0	0	0	0
3.1	2018	3		0	1	0	0	0	0	0	0	0
3.2	2018	3		0	1	0	0	0	0	0	0	0
3.4	2018	3		0	1	0	0	0	0	0	0	0
4	2018	3		0	1	0	0	0	0	0	0	0
1	2018	4		0	1	0	0	0	0	0	0	0
2	2018	4		0	1	0	0	0	0	0	0	0
3.1	2018	4		0	1	0	0	0	0	0	0	0
3.2	2018	4		0	1	0	0	0	0	0	0	0
3.4	2018	4		0	1	0	0	0	0	0	0	0
4	2018	4		0	1	0	0	0	0	0	0	0
1	2018	5		0	1	0	0	0	0	0	0	0
2	2018	5		0	1	0	0	0	0	0	0	0
3.1	2018	5		0	1	0	0	0	0	0	0	0
3.2	2018	5		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2018	5	5	0	1	0	0	0	0	0	0	0
4	2018	5	5	0	1	0	0	0	0	0	0	0
1	2018	6	6	0	1	0	0	0	0	0	0	0
2	2018	6	6	0	1	0	0	0	0	0	0	0
3.1	2018	6	6	0	1	0	0	0	0	0	0	0
3.2	2018	6	6	0	1	0	0	0	0	0	0	0
3.4	2018	6	6	0	1	0	0	0	0	0	0	0
4	2018	6	6	0	1	0	0	0	0	0	0	0
1	2018	7	7	0	1	0	0	0	0	0	0	0
2	2018	7	7	0	1	0	0	0	0	0	0	0
3.1	2018	7	7	0	1	0	0	0	0	0	1	0
3.2	2018	7	7	0	1	0	0	0	0	0	0	0
3.4	2018	7	7	0	1	0	0	0	0	0	0	0
4	2018	7	7	0	1	0	0	0	0	0	0	0
1	2018	8	8	0	1	0	0	0	0	0	0	0
2	2018	8	8	0	1	0	0	0	0	0	0	0
3.1	2018	8	8	0	1	0	0	0	0	0	1	0
3.2	2018	8	8	0	1	0	0	0	0	0	0	0
3.4	2018	8	8	0	1	0	0	0	0	0	0	0
4	2018	8	8	0	1	0	0	0	0	0	0	0
1	2018	9	9	0	1	0	0	0	0	0	0	0
2	2018	9	9	0	1	0	0	0	0	0	0	0
3.1	2018	9	9	0	1	0	0	0	0	0	1	0
3.2	2018	9	9	0	1	0	0	0	0	0	0	0
3.4	2018	9	9	0	1	0	0	0	0	0	0	0
4	2018	9	9	0	1	0	0	0	0	0	0	0
1	2018	10	10	0	1	0	0	0	0	0	0	0
2	2018	10	10	0	1	0	0	0	0	0	0	0
3.1	2018	10	10	0	1	0	0	0	0	0	1	0
3.2	2018	10	10	0	1	0	0	0	0	0	0	0
3.4	2018	10	10	0	1	0	0	0	0	0	0	0
4	2018	10	10	0	1	0	0	0	0	0	0	0
1	2018	11	11	0	1	0	0	0	0	0	0	0
2	2018	11	11	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.1	2018	11		0	1	0	0	0	0	0	0	1
3.2	2018	11		0	1	0	0	0	0	0	0	0
3.4	2018	11		0	1	0	0	0	0	0	0	0
4	2018	11		0	1	0	0	0	0	0	0	0
1	2018	12		0	1	0	0	0	0	0	0	0
2	2018	12		0	1	0	0	0	0	0	0	0
3.1	2018	12		0	1	0	0	0	0	0	0	1
3.2	2018	12		0	1	0	0	0	0	0	0	0
3.4	2018	12		0	1	0	0	0	0	0	0	0
4	2018	12		0	1	0	0	0	0	0	0	0
1	2019	1		0	1	0	0	0	0	0	0	0
2	2019	1		0	1	0	0	0	0	0	0	0
3.1	2019	1		0	1	0	0	0	0	0	0	1
3.2	2019	1		0	1	0	0	0	0	0	0	0
3.4	2019	1		0	1	0	0	0	0	0	0	0
4	2019	1		0	1	0	0	0	0	0	0	0
1	2019	2		0	1	0	0	0	0	0	0	0
2	2019	2		0	1	0	0	0	0	0	0	0
3.1	2019	2		0	1	0	0	0	0	0	0	1
3.2	2019	2		0	1	0	0	0	0	0	0	0
3.4	2019	2		0	1	0	0	0	0	0	0	0
4	2019	2		0	1	0	0	0	0	0	0	0
1	2019	3		0	1	0	0	0	0	0	0	0
2	2019	3		0	1	0	0	0	0	0	0	0
3.1	2019	3		0	1	0	0	0	0	0	0	1
3.2	2019	3		0	1	0	0	0	0	0	0	0
3.4	2019	3		0	1	0	0	0	0	0	0	0
4	2019	3		0	1	0	0	0	0	0	0	0
1	2019	4		0	1	0	0	0	0	0	0	0
2	2019	4		0	1	0	0	0	0	0	0	0
3.1	2019	4		0	1	0	0	0	0	0	0	1
3.2	2019	4		0	1	0	0	0	0	0	0	0
3.4	2019	4		0	1	0	0	0	0	0	0	0
4	2019	4		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2019	5	5	0	1	0	0	0	0	0	0	0
2	2019	5	5	0	1	0	0	0	0	0	0	0
3.1	2019	5	5	0	1	0	0	0	0	0	0	1
3.2	2019	5	5	0	1	0	0	0	0	0	0	0
3.4	2019	5	5	0	1	0	0	0	0	0	0	0
4	2019	5	5	0	1	0	0	0	0	0	0	0
1	2019	6	6	0	1	0	0	0	0	0	0	0
2	2019	6	6	0	1	0	0	0	0	0	0	0
3.1	2019	6	6	0	1	0	0	0	0	0	0	1
3.2	2019	6	6	0	1	0	0	0	0	0	0	0
3.4	2019	6	6	0	1	0	0	0	0	0	0	0
4	2019	6	6	0	1	0	0	0	0	0	0	0
1	2019	7	7	0	1	0	0	0	0	0	0	0
2	2019	7	7	0	1	0	0	0	0	0	0	0
3.1	2019	7	7	0	1	0	0	0	0	0	0	1
3.2	2019	7	7	0	1	0	0	0	0	0	0	0
3.4	2019	7	7	0	1	0	0	0	0	0	0	0
4	2019	7	7	0	1	0	0	0	0	0	0	0
1	2019	8	8	0	1	0	0	0	0	0	0	0
2	2019	8	8	0	1	0	0	0	0	0	0	0
3.1	2019	8	8	0	1	0	0	0	0	0	0	1
3.2	2019	8	8	0	1	0	0	0	0	0	0	0
3.4	2019	8	8	0	1	0	0	0	0	0	0	0
4	2019	8	8	0	1	0	0	0	0	0	0	0
1	2019	9	9	0	1	0	0	0	0	0	0	0
2	2019	9	9	0	1	0	0	0	0	0	0	0
3.1	2019	9	9	0	1	0	0	0	0	0	0	1
3.2	2019	9	9	0	1	0	0	0	0	0	0	0
3.4	2019	9	9	0	1	0	0	0	0	0	0	0
4	2019	9	9	0	1	0	0	0	0	0	0	0
1	2019	10	10	0	1	0	0	0	0	0	0	0
2	2019	10	10	0	1	0	0	0	0	0	0	0
3.1	2019	10	10	0	1	0	0	0	0	0	0	1
3.2	2019	10	10	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
3.4	2019	10		0	1	0	0	0	0	0	0	0
4	2019	10		0	1	0	0	0	0	0	0	0
1	2019	11		0	1	0	0	0	0	0	0	0
2	2019	11		0	1	0	0	0	0	0	0	0
3.1	2019	11		0	1	0	0	0	0	0	0	1
3.2	2019	11		0	1	0	0	0	0	0	0	0
3.4	2019	11		0	1	0	0	0	0	0	0	0
4	2019	11		0	1	0	0	0	0	0	0	0
1	2019	12		0	1	0	0	0	0	0	0	0
2	2019	12		0	1	0	0	0	0	0	0	0
3.1	2019	12		0	1	0	0	0	0	0	0	1
3.2	2019	12		0	1	0	0	0	0	0	0	0
3.4	2019	12		0	1	0	0	0	0	0	0	0
4	2019	12		0	1	0	0	0	0	0	0	0
1	2020	1		0	1	0	0	0	0	0	0	0
2	2020	1		0	1	0	0	0	0	0	0	0
3.1	2020	1		0	1	0	0	0	0	0	0	1
3.2	2020	1		0	1	0	0	0	0	0	0	0
3.4	2020	1		0	1	0	0	0	0	0	0	0
4	2020	1		0	1	0	0	0	0	0	0	0
1	2020	2		0	1	0	0	0	0	0	0	0
2	2020	2		0	1	0	0	0	0	0	0	0
3.1	2020	2		0	1	0	0	0	0	0	0	1
3.2	2020	2		0	1	0	0	0	0	0	0	0
3.4	2020	2		0	1	0	0	0	0	0	0	0
4	2020	2		0	1	0	0	0	0	0	0	0
1	2020	3		0	1	0	0	0	0	0	0	0
2	2020	3		0	1	0	0	0	0	0	0	0
3.1	2020	3		0	1	0	0	0	0	0	0	1
3.2	2020	3		0	1	0	0	0	0	0	0	0
3.4	2020	3		0	1	0	0	0	0	0	0	0
4	2020	3		0	1	0	0	0	0	0	0	0
1	2020	4		0	1	0	0	0	0	0	0	0
2	2020	4		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	com6	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9
1	2020	10		0	1	0	0	0	0	0	0	0
2	2020	10		0	1	0	0	0	0	0	0	0
3.1	2020	10		0	1	0	0	0	0	0	0	1
3.2	2020	10		0	1	0	0	0	0	0	0	0
3.4	2020	10		0	1	0	0	0	0	0	0	0
4	2020	10		0	1	0	0	0	0	0	0	0
1	2020	11		0	1	0	0	0	0	0	0	0
2	2020	11		0	1	0	0	0	0	0	0	0
3.1	2020	11		0	1	0	0	0	0	0	0	1
3.2	2020	11		0	1	0	0	0	0	0	0	0
3.4	2020	11		0	1	0	0	0	0	0	0	0
4	2020	11		0	1	0	0	0	0	0	0	0
1	2020	12		0	1	0	0	0	0	0	0	0
2	2020	12		0	1	0	0	0	0	0	0	0
3.1	2020	12		0	1	0	0	0	0	0	0	1
3.2	2020	12		0	1	0	0	0	0	0	0	0
3.4	2020	12		0	1	0	0	0	0	0	0	0
4	2020	12		0	1	0	0	0	0	0	0	0
1	2021	1		0	1	0	0	0	0	0	0	0
2	2021	1		0	1	0	0	0	0	0	0	0
3.1	2021	1		0	1	0	0	0	0	0	0	1
3.2	2021	1		0	1	0	0	0	0	0	0	0
3.4	2021	1		0	1	0	0	0	0	0	0	0
4	2021	1		0	1	0	0	0	0	0	0	0
1	2021	2		0	1	0	0	0	0	0	0	0
2	2021	2		0	1	0	0	0	0	0	0	0
3.1	2021	2		0	1	0	0	0	0	0	0	1
3.2	2021	2		0	1	0	0	0	0	0	0	0
3.4	2021	2		0	1	0	0	0	0	0	0	0
4	2021	2		0	1	0	0	0	0	0	0	0
1	2021	3		0	1	0	0	0	0	0	0	0
2	2021	3		0	1	0	0	0	0	0	0	0
3.1	2021	3		0	1	0	0	0	0	0	0	1
3.2	2021	3		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-term Customer Models Input Data

revcls	YEAR	MONTH	or1	or2	or3	or4	or5	or6	or7	or8	or9
3.1	2011	10	0	0	0	0	0	0	0	0	0
3.2	2011	10	0	0	0	0	0	0	0	0	0
3.4	2011	10	0	0	0	0	0	0	0	0	0
4	2011	10	0	0	0	0	1	0	0	0	0
1	2011	11	0	0	0	0	0	0	0	0	0
2	2011	11	0	0	0	0	0	0	0	0	0
3.1	2011	11	0	0	0	0	0	0	0	0	0
3.2	2011	11	0	0	0	0	0	0	0	0	0
3.4	2011	11	0	0	0	0	0	0	0	0	0
4	2011	11	0	0	0	0	0	0	0	0	0
4	2011	11	0	0	0	0	0	0	0	0	0
1	2011	12	0	0	0	0	0	0	0	0	0
2	2011	12	0	0	0	0	0	0	0	0	0
3.1	2011	12	0	0	0	0	0	0	0	0	0
3.2	2011	12	0	0	0	0	0	0	0	0	0
3.4	2011	12	0	0	0	0	0	0	0	0	0
4	2011	12	0	0	0	0	0	0	0	0	0
1	2012	1	0	0	0	0	0	0	0	0	0
2	2012	1	0	0	0	0	0	0	0	0	0
3.1	2012	1	0	0	0	0	0	0	0	0	0
3.2	2012	1	0	0	0	0	0	0	0	0	0
3.4	2012	1	0	0	0	0	0	0	0	0	0
4	2012	1	0	0	0	0	0	0	0	0	0
1	2012	2	0	0	0	0	0	0	0	0	0
2	2012	2	0	0	0	0	0	0	0	0	0
3.1	2012	2	0	0	0	0	0	0	0	0	0
3.2	2012	2	0	0	0	0	0	0	0	0	0
3.4	2012	2	0	0	0	0	0	0	0	0	0
4	2012	2	0	0	0	0	0	0	0	0	0
1	2012	3	0	0	0	0	0	0	0	0	0
2	2012	3	0	0	0	0	0	0	0	0	0
3.1	2012	3	0	0	0	0	0	0	0	0	0
3.2	2012	3	0	0	0	0	0	0	0	0	0
3.4	2012	3	0	0	0	0	0	0	0	0	0
4	2012	3	0	0	0	0	0	0	0	0	0
4	2012	3	0	0	0	0	0	-1	0	0	0

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Pr > |t|	Lag	Variable
MU	801.31188	1121.3	0.71	0.4748	0	CUST
MA1,1	0.70446	0.10025	7.03	<.0001	12	CUST
AR1,1	0.33770	0.08277	4.08	<.0001	1	CUST
AR1,2	0.40922	0.07829	5.23	<.0001	3	CUST
AR1,3	0.23958	0.09357	2.56	0.0105	4	CUST
AR2,1	0.23582	0.09866	2.39	0.0168	2	CUST
NUM1	7982.1	268.58549	29.72	<.0001	0	res1
NUM2	8961.9	278.67743	32.16	<.0001	0	res2
NUM3	2982.8	385.06762	7.75	<.0001	0	res3

Constant Estimate	8.271027
Variance Estimate	248903.6
Std Error Estimate	498.9024
AIC	1850.153
SBC	1875.241
Number of Residuals	120

Residential Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable	CUST	MU	CUST	MA1,1	AR1,1	AR1,2	AR1,3	CUST	AR2,1	res1
res2										
res3										
Parameter										
NUM2										NUM1
0.050		MU	1.000	0.277	0.038	0.027	0.155	-0.129		0.013
0.013										
0.044		MA1,1	0.277	1.000	0.140	-0.122	0.118	0.080		0.083
0.075										
0.160		AR1,1	0.038	0.140	1.000	-0.331	-0.572	-0.255		0.006
0.031										
0.025		AR1,2	0.027	-0.122	-0.331	1.000	-0.543	0.116		-0.034
-0.056										
0.142		AR1,3	0.155	0.118	-0.572	-0.543	1.000	0.091		0.032
0.028										
0.274		AR2,1	-0.129	0.080	-0.255	0.116	0.091	1.000		-0.003
0.070										
res1		NUM1	0.013	0.083	0.006	-0.034	0.032	-0.003		1.000
0.023										
res2		NUM2	0.050	0.044	0.160	0.025	-0.142	-0.274		0.175
0.002										
res3		NUM3	0.013	0.075	0.031	-0.056	0.028	0.070		0.023
1.000										

Autocorrelation Check of Residuals

To Chi- Pr >

Indiana Michigan Power Company - Indiana

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-----Autocorrelations-----
Lag      Square      DF      ChiSq      6      7      8      9      10      11      12      13      14      15      16      17      18      19      20
-----
0.046    0.56      1      0.4532    0.008  -0.038  0.012  0.001  0.026
-0.060   2.38      7      0.9361    0.019  0.035  -0.056  0.066  0.030
0.127    9.11     13     0.7645   -0.035  0.017  0.101  -0.038  0.135
-0.036   13.55    19     0.8090    0.047  -0.051  -0.126  0.088  0.017

```

Autocorrelation Plot of Residuals

```

Std Error      Lag      Covariance      Correlation      -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
-----
0              0      248904      1.00000      |*****|
0.091287      1      2012.039      0.00808      |.      |
0.091293      2     -9444.479     -0.03794     |*      |
0.091424      3      3063.841      0.01231      |.      |
0.091438      4      209.736       0.00084      |.      |
0.091438      5     6590.664      0.02648      |*.     |

```

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Residential Customers
The ARIMA Procedure
Autocorrelation Plot of Residuals

17	-0.13194	.***	.
18	-0.11572	**	.
19	-0.05263	*	.
20	0.03981	.	*
21	0.13243	.	***
22	-0.07461	.	*
23	0.01205	.	.
24	0.03566	.	*

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.00808													.									.
2	-0.03801										*			.									.
3	0.01295													.									.
4	-0.00082													.									.
5	0.02749												*	.									.
6	0.04513												*	.									.
7	0.02085													.									.
8	0.03727												*	.									.
9	-0.05671											*	.	.									.

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Residential Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
10	0.06922												*	.									.
11	0.02095												.	.									.
12	-0.05755											*	.	.									.
13	-0.03748											*	.	.									.
14	0.01219											.	.	.									.

15	0.10146	|		|	**	.
16	-0.04587	|		|	*	.
17	0.14911	|		|	***	.
18	0.12208	|		|	**	.
19	0.07220	|		|	*	.
20	-0.05028	|		|	*	.
21	-0.14945	|		|	***	.
22	0.08567	|		|	**	.
23	-0.01370	|		|	.	.
24	-0.03983	|		|	*	.

Model for variable CUST

Estimated Intercept 801.3119
 Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 - 0.3377 B**(1) - 0.40922 B**(3) - 0.23958 B**(4)
 Factor 2: 1 - 0.23582 B**(2)

Moving Average Factors

Factor 1: 1 - 0.70446 B**(12)
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Residential Customers

The ARIMA Procedure

Input Number 1

Input Variable res1
 Period(s) of Differencing 12
 Overall Regression Factor 7982.09

Input Number 2

Input Variable res2
Period(s) of Differencing 12
Overall Regression Factor 8961.893

Input Number 3

Input Variable res3
Period(s) of Differencing 12
Overall Regression Factor 2982.761

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

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The SAS System

Residential Customers

The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
37	JAN2011	Additive	1268.0	17.09	<.0001
74	FEB2014	Additive	-1201.7	15.54	<.0001
52	APR2012	Shift	961.24619	10.15	0.0014

Indiana Michigan Power Company - Indiana

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	409143.1	498.90	408165.3
134	409198.9	526.58	408166.8
135	408994.3	554.76	407907.0
136	408296.6	613.99	407093.3
137	407867.3	685.60	406523.6
138	407717.0	718.46	406308.8
139	407634.5	753.94	406156.8
140	407679.0	799.18	406112.7
141	408159.2	837.98	406516.8
142	408372.9	869.00	406669.7
143	408839.5	901.88	407071.8
144	409735.1	935.39	407901.7
145	410425.5	1011.86	408442.3
146	410433.6	1051.01	408373.7
147	410414.5	1090.31	408277.6
148	409735.7	1134.99	407511.2
149	409178.1	1180.17	406865.0
150	409052.3	1216.73	406667.6
151	409025.8	1253.28	406569.4
152	409042.0	1290.89	406511.9
153	409490.8	1326.10	406891.7
154	409722.9	1358.81	407059.7
155	410197.3	1391.27	407470.5

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Residential Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
-----	----------	-----------	-----------------------

Indiana Michigan Power Company - Indiana

156	411075.9	1423.08	408286.7	413865.1
157	411760.7	1490.30	408839.7	414681.6
158	411774.4	1529.19	408777.3	414771.6
159	411752.1	1567.53	408679.8	414824.4
160	411065.9	1610.40	407909.5	414222.2
161	410506.6	1654.42	407264.0	413749.2
162	410380.4	1691.27	407065.5	413695.2
163	410349.9	1727.94	406963.2	413736.6
164	410362.3	1765.69	406901.6	413823.0
165	410809.2	1801.54	407278.3	414340.2
166	411039.0	1835.18	407442.1	414635.9
167	411510.1	1868.57	407847.7	415172.4
168	412385.9	1901.45	408659.1	416112.7

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Commercial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > |t|	Lag	Variable
0	MU	20.13517	3.66872	5.49	<.0001	0	CUST
0	MA1,1	0.72315	0.06389	11.32	<.0001	1	CUST
0	MA2,1	-0.20861	0.10066	-2.07	0.0382	12	CUST
0	NUM1	550.65058	76.43069	7.20	<.0001	0	com1
0	NUM2	1342.3	79.92694	16.79	<.0001	0	com2
0	NUM3	581.94333	75.90241	7.67	<.0001	0	com3

Indiana Michigan Power Company - Indiana

0	NUM4	-1223.3	116.23647	-10.52	<.0001	0	com4
0	NUM5	2014.9	116.20155	17.34	<.0001	0	com5
0	NUM6	742.00283	75.16925	9.87	<.0001	0	com6

Constant Estimate 20.13517
Variance Estimate 15737.65
Std Error Estimate 125.4498
AIC 1647.663
SBC 1673.539
Number of Residuals 131

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Commercial Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable	CUST	CUST	CUST	com1	com2	com3	com4
com5							
NUM5							
com6							
Parameter							
NUM6							
CUST	MU	CUST	MA1,1	MA2,1	NUM1	NUM2	NUM3
0.003	1.000	-0.024	-0.024	-0.027	-0.012	-0.009	-0.002
0.024	-0.024	1.000	1.000	-0.054	-0.041	0.051	-0.050
0.106	-0.027	-0.054	-0.054	1.000	0.054	0.269	0.107
0.007	-0.012	-0.041	-0.041	0.054	1.000	-0.034	0.007
	MU	MU	MU	MU	MU	MU	MU
	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		MA1,1	MA1,1	MA1,1	MA1,1	MA1,1	MA1,1
		1.000	1.000	1.000	1.000	1.000	1.000
			MA2,1	MA2,1	MA2,1	MA2,1	MA2,1
			1.000	1.000	1.000	1.000	1.000
				NUM1	NUM1	NUM1	NUM1
				1.000	1.000	1.000	1.000

Indiana Michigan Power Company - Indiana

com2	NUM2	-0.009	0.051	0.269	0.013	1.000	0.031	-0.106
0.161	0.002							
com3	NUM3	-0.002	-0.051	0.126	-0.034	0.031	1.000	0.043
0.036	0.003							
com4	NUM4	-0.002	-0.050	0.107	0.007	-0.106	0.043	1.000
0.126	0.006							
com5	NUM5	-0.003	-0.024	0.106	0.007	0.161	0.036	0.126
1.000	0.034							
com6	NUM6	0.000	-0.021	0.012	0.001	0.002	0.003	0.006
0.034	1.000							

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----										
6	3.66	4	0.4545	0.009	-0.057	0.033	0.082	-0.073						
12	6.73	10	0.7508	0.069	0.083	-0.066	0.017	0.073						
18	10.82	16	0.8207	-0.031	0.014	0.007	-0.057	0.004						
24	12.83	22	0.9377	0.067	-0.004	-0.005	0.008	0.085						

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
0	15737.651	1.00000	|																					
1	134.627	0.00855	|																					

Std Error

0
0.087370

Indiana Michigan Power Company - Indiana

0.091567	15	114.530	0.00728	.	.
0.091571	16	-895.255	-0.05689	*	.
0.091841	17	60.966684	0.00387	.	.
0.091842	18	2344.202	0.14896	***.	.
0.093668	19	1052.349	0.06687	*	.
0.094032	20	-67.267326	-0.00427	.	.
0.094033	21	-78.516644	-0.00499	.	.
0.094035	22	122.289	0.00777	.	.
0.094040	23	1330.963	0.08457	**.	.
0.094619	24	-481.317	-0.03058	*	.

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.00878												.										.
2	-0.00847											.	.										.
3	-0.03364										.	*	.									.	.
4	-0.04759										.	*	.									.	.
5	0.07831										.	.	**.									**.	**.
6	0.09533										.	.	**.									**.	**.

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Commercial Customers

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The SAS System
Commercial Customers

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The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
10	0.03097												*	.									
11	0.04262												*	.									
12	-0.00442												.	.									
13	0.00247												.	.									
14	0.01154												.	.									
15	-0.01921												.	.									
16	-0.04428												.	*	.								
17	0.02300												.	.									
18	0.13433												.	***	.								
19	0.06424												.	*	.								
20	0.01825												.	.									
21	-0.02044												.	.									
22	-0.02851												.	*	.								
23	0.10900												.	.									
24	0.00869												.	.									

Model for variable CUST

Estimated Intercept 20.13517
Period(s) of Differencing 1

Moving Average Factors

Factor 1: 1 - 0.72315 B**(1)
Factor 2: 1 + 0.20861 B**(12)

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```
Input Number 1
Input Variable      com1
Period(s) of Differencing 1
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Commercial Customers
The ARIMA Procedure
Input Number 1
Overall Regression Factor 550.6506

Input Number 2
Input Variable      com2
Period(s) of Differencing 1
Overall Regression Factor 1342.342

Input Number 3
Input Variable      com3
Period(s) of Differencing 1
Overall Regression Factor 581.9433

Input Number 4
Input Variable      com4
Period(s) of Differencing 1
Overall Regression Factor -1223.3
```



```

Input Number 5
Input Variable          com5
Period(s) of Differencing 1
Overall Regression Factor 2014.912

Input Number 6
Input Variable          com6
Period(s) of Differencing 1
The SAS System
Commercial Customers
The ARIMA Procedure
Input Number 6
Overall Regression Factor 742.0028
    
```

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Outlier Detection Summary

```

Maximum number searched 3
Number found             3
Significance used        0.05
    
```

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
15	MAR2009	Additive	417.24176	15.56	<.0001
71	NOV2013	Shift	-250.88851	11.39	0.0007
131	NOV2018	Additive	284.72708	8.88	0.0029

Indiana Michigan Power Company - Indiana

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	53558.3448	125.4498	53312.4677 53804.2219
134	53577.2047	130.1687	53322.0788 53832.3306
135	53601.0028	134.7224	53336.9518 53865.0538
136	53594.0426	139.1271	53321.3585 53866.7268
137	53627.5558	143.3966	53346.5036 53908.6080
138	53635.9975	147.5426	53346.8192 53925.1757
139	53689.1628	151.5753	53392.0808 53986.2449
140	53694.8212	155.5034	53390.0402 53999.6022
141	53781.7419	159.3346	53469.4517 54094.0320
142	53743.8077	163.0759	53424.1847 54063.4307
143	53826.2754	166.7333	53499.4841 54153.0666

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Commercial Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
144	53778.2809	170.3122	53444.4752 54112.0866
145	53818.1946	180.8731	53463.6898 54172.6994
146	53838.3297	185.6800	53474.4036 54202.2558
147	53858.4649	190.3655	53485.3553 54231.5745
148	53878.6001	194.9385	53496.5276 54260.6725
149	53898.7352	199.4066	53507.9055 54289.5650
150	53918.8704	203.7768	53519.4753 54318.2656
151	53939.0056	208.0552	53531.2249 54346.7862
152	53959.1407	212.2473	53543.1436 54375.1379
153	53979.2759	216.3583	53555.2215 54403.3304
154	53999.4111	220.3926	53567.4496 54431.3726
155	54019.5463	224.3543	53579.8198 54459.2727

Indiana Michigan Power Company - Indiana

156	54039.6814	228.2473	53592.3249	54487.0380
157	54059.8166	232.0750	53604.9579	54514.6753
158	54079.9518	235.8406	53617.7126	54542.1909
159	54100.0869	239.5470	53630.5834	54569.5905
160	54120.2221	243.1970	53643.5648	54596.8794
161	54140.3573	246.7929	53656.6521	54624.0625
162	54160.4924	250.3372	53669.8405	54651.1443
163	54180.6276	253.8320	53683.1260	54678.1292
164	54200.7628	257.2794	53696.5045	54705.0211
165	54220.8979	260.6811	53709.9723	54731.8236
166	54241.0331	264.0391	53723.5260	54758.5402
167	54261.1683	267.3548	53737.1624	54785.1741
168	54281.3034	270.6300	53750.8784	54811.7285

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Industrial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > |t|	Lag	Variable
0	MU	-1.80287	0.50024	-3.60	0.0003	0	CUST
0	AR1,1	-0.66147	0.09343	-7.08	<.0001	1	CUST
0	AR1,2	-0.69896	0.09142	-7.65	<.0001	2	CUST
0	AR1,3	-0.21077	0.09309	-2.26	0.0236	3	CUST
0	AR2,1	-0.21475	0.09269	-2.32	0.0205	14	CUST
0	NUM1	64.71008	17.46618	3.70	0.0002	0	ind1

Indiana Michigan Power Company - Indiana

0	NUM2	60.83614	10.03366	6.06	<.0001	0	ind2
0	NUM3	275.17285	9.88417	27.84	<.0001	0	ind3
0	NUM4	-307.34139	15.05934	-20.41	<.0001	0	ind4
0	NUM5	343.12102	15.37811	22.31	<.0001	0	ind5
0	NUM6	-79.42222	15.45539	-5.14	<.0001	0	ind6
0	NUM7	-88.93085	15.96248	-5.57	<.0001	0	ind7
0	NUM8	41.08526	12.36318	3.32	0.0009	0	ind8
0	NUM9	94.57005	15.17239	6.23	<.0001	0	ind9

Constant Estimate -5.63102
Variance Estimate 295.8061
Std Error Estimate 17.19901
AIC 1132.046
SBC 1172.299
Number of Residuals 131
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Industrial Customers

The ARIMA Procedure

Correlations of Parameter Estimates

ind2	Variable	CUST	CUST	CUST	CUST	CUST	ind1
NUM2	Parameter	MU	AR1,1	AR1,2	AR1,3	AR2,1	NUM1

Indiana Michigan Power Company - Indiana

0.000	CUST	MU	1.000	-0.011	-0.006	-0.005	-0.012	-0.090
0.023	CUST	AR1,1	-0.011	1.000	0.534	0.596	0.025	0.013
0.082	CUST	AR1,2	-0.006	0.534	1.000	0.513	0.004	-0.007
0.005	CUST	AR1,3	-0.005	0.596	0.513	1.000	-0.031	-0.011
0.005	CUST	AR2,1	-0.012	0.025	0.004	-0.031	1.000	0.003
0.053	ind1	NUM1	-0.090	0.013	-0.007	-0.011	0.003	1.000
1.000	ind2	NUM2	0.000	-0.023	0.082	0.005	-0.005	-0.053
0.191	ind3	NUM3	0.001	-0.087	-0.083	-0.158	0.003	0.001
0.010	ind4	NUM4	0.000	-0.057	0.130	0.004	0.040	-0.003
0.004	ind5	NUM5	0.000	-0.015	-0.091	0.117	0.027	-0.002
0.014	ind6	NUM6	-0.001	0.165	-0.045	0.096	-0.025	0.000
0.020	ind7	NUM7	0.003	-0.044	-0.229	0.077	-0.179	-0.001
0.003	ind8	NUM8	-0.164	0.003	-0.026	-0.014	-0.049	0.015
0.277	ind9	NUM9	0.001	-0.108	-0.098	-0.081	-0.006	0.183

Correlations of Parameter Estimates

ind9	Variable	ind3	ind4	ind5	ind6	ind7	ind8
NUM9	Parameter	NUM3	NUM4	NUM5	NUM6	NUM7	NUM8
0.001	CUST	MU	0.001	0.000	-0.001	0.003	-0.164

Indiana Michigan Power Company - Indiana

0.108	CUST	AR1,1	-0.087	-0.057	-0.015	0.165	-0.044	0.003	-
0.098	CUST	AR1,2	-0.083	0.130	-0.091	-0.045	-0.229	-0.026	-
0.081	CUST	AR1,3	-0.158	0.004	0.117	0.096	0.077	-0.014	-
0.006	CUST	AR2,1	0.003	0.040	0.027	-0.025	-0.179	-0.049	-
0.183	ind1	NUM1	0.001	-0.003	-0.002	0.000	-0.001	0.015	-
0.277	ind2	NUM2	-0.191	0.010	-0.004	-0.014	-0.020	-0.003	-
0.007	ind3	NUM3	1.000	-0.003	-0.063	0.248	-0.049	0.003	-
0.000	ind4	NUM4	-0.003	1.000	0.130	-0.225	-0.131	-0.008	-
0.005	ind5	NUM5	-0.063	0.130	1.000	0.008	0.313	-0.001	-
0.028	ind6	NUM6	0.248	-0.225	0.008	1.000	0.034	0.007	-
0.016	ind7	NUM7	-0.049	-0.131	0.313	0.034	1.000	0.014	-

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Industrial Customers

The ARIMA Procedure

Correlations of Parameter Estimates

ind9	Variable	ind3	ind4	ind5	ind6	ind7	ind8
NUM9	Parameter	NUM3	NUM4	NUM5	NUM6	NUM7	NUM8
0.001	ind8	NUM8	0.003	-0.008	-0.001	0.014	1.000

Indiana Michigan Power Company - Indiana

0.093491	19	0.737285	0.00249	.	.
0.093492	20	-5.865953	-0.01983	.	.
0.093524	21	-19.654376	-0.06644	.	*
0.093884	22	-25.293191	-0.08551	.	**
0.094476	23	-27.305877	-0.09231	.	**
0.095162	24	26.843586	0.09075	.	**

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.06709												*	.								
2	0.10289												**	.								
3	0.04792												*	.								
4	0.07707												**	.								
5	-0.00957												.	.								
6	0.00356												.	.								
7	-0.01680												.	.								
8	-0.01963												.	.								
9	0.02705												*	.								
10	0.00620												.	.								
11	0.04082												.	*	.							
12	-0.03766												.	*	.							
13	0.03871												.	*	.							

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Industrial Customers

The ARIMA Procedure

Industrial Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
17	0.01015	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
18	-0.04008	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
19	-0.02283	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
20	-0.03952	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
21	-0.03906	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
22	-0.09084	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
23	-0.08728	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
24	0.05079	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|

Model for variable CUST

Estimated Intercept -1.80287
 Period(s) of Differencing 1

Autoregressive Factors

Factor 1: $1 + 0.66147 B^{**}(1) + 0.69896 B^{**}(2) + 0.21077 B^{**}(3)$
 Factor 2: $1 + 0.21475 B^{**}(14)$

Input Number 1

Input Variable ind1
 Period(s) of Differencing 1
 Overall Regression Factor 64.71008

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Input Number 2

Input Variable ind2
Period(s) of Differencing 1
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Industrial Customers

The ARIMA Procedure

Input Number 2

Overall Regression Factor 60.83614

Input Number 3

Input Variable ind3
Period(s) of Differencing 1
Overall Regression Factor 275.1728

Input Number 4

Input Variable ind4
Period(s) of Differencing 1
Overall Regression Factor -307.341

Input Number 5

Input Variable ind5
Period(s) of Differencing 1
Overall Regression Factor 343.121

Input Number 6

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Input Variable ind6
 Period(s) of Differencing 1
 Overall Regression Factor -79.4222

Input Number 7

Input Variable ind7
 Period(s) of Differencing 1
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Industrial Customers
 The ARIMA Procedure

Input Number 7

Overall Regression Factor -88.9308

Input Number 8

Input Variable ind8
 Period(s) of Differencing 1
 Overall Regression Factor 41.08526

Input Number 9

Input Variable ind9
 Period(s) of Differencing 1
 Overall Regression Factor 94.57005

Outlier Detection Summary

Maximum number searched 3

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Number found 3
Significance used 0.05

Outlier Details				Approx
Obs	Time ID	Type	Estimate	Chi-Square
23	NOV2009	Shift	-34.33196	11.78
33	SEP2010	Additive	-37.67367	10.07
64	APR2013	Additive	36.37524	9.64

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Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	3968.3976	17.1990	3934.6881 4002.1070
134	3973.4370	18.1578	3937.8484 4009.0256
135	3958.9489	18.2062	3923.2655 3994.6324
136	3958.6831	20.1467	3919.1963 3998.1700
137	3964.7849	22.2057	3921.2625 4008.3073
138	3960.3948	22.7003	3915.9031 4004.8865
139	3954.7391	23.4138	3908.8488 4000.6294
140	3955.7369	24.7893	3907.1508 4004.3230
141	3954.4393	25.7077	3904.0531 4004.8255
142	3951.2256	26.3525	3899.5756 4002.8757
143	3951.4124	27.2384	3898.0261 4004.7988
144	3949.4968	28.1628	3894.2987 4004.6948
145	3948.4338	28.8871	3891.8161 4005.0515
146	3950.6900	29.6078	3892.6598 4008.7202
147	3945.8682	29.7812	3887.4981 4004.2383
148	3942.8123	30.2829	3883.4588 4002.1657

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149	3943.5229	30.9237	3882.9135	4004.1323
150	3941.3264	31.3017	3879.9762	4002.6765
151	3937.9697	31.6620	3875.9133	4000.0261
152	3936.7162	32.1613	3873.6812	3999.7512
153	3935.6578	32.6148	3871.7340	3999.5817
154	3933.2824	32.9914	3868.6204	3997.9444
155	3931.4112	33.4049	3865.9389	3996.8835
156	3929.8820	33.8422	3863.5525	3996.2115
157	3927.6371	34.2407	3860.5266	3994.7475
158	3925.8802	34.6281	3858.0104	3993.7500
159	3923.9205	35.0321	3855.2589	3992.5822
160	3921.2325	35.4290	3851.7930	3990.6720
161	3920.0808	35.9341	3849.6513	3990.5104
162	3918.5542	36.3545	3847.3006	3989.8077
163	3916.2077	36.7448	3844.1892	3988.2261
164	3914.4863	37.1762	3841.6224	3987.3503
165	3913.0203	37.6058	3839.3143	3986.7263

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Industrial Customers

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Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
166	3911.1003	38.0025	3836.6168 3985.5838
167	3909.1354	38.4019	3833.8692 3984.4017
168	3907.4557	38.8112	3831.3871 3983.5243

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Other Retail Customers

The ARIMA Procedure

Maximum Likelihood Estimation

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Shift	Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable
0	MU	-0.97466	0.54019	-1.80	0.0712	0	CUST
0	MA1,1	0.38849	0.08487	4.58	<.0001	1	CUST
0	AR1,1	0.29625	0.09405	3.15	0.0016	24	CUST
0	NUM1	37.53119	3.82758	9.81	<.0001	0	or1
0	NUM2	-50.77310	6.71426	-7.56	<.0001	0	or2
0	NUM3	34.62277	6.66665	5.19	<.0001	0	or3
0	NUM4	132.55679	3.76833	35.18	<.0001	0	or4
0	NUM5	165.03897	3.80995	43.32	<.0001	0	or5
0	NUM6	62.71022	6.64910	9.43	<.0001	0	or6
0	NUM7	-122.32556	6.64147	-18.42	<.0001	0	or7
0	NUM8	30.09520	6.09920	4.93	<.0001	0	or8
0	NUM9	170.53043	3.92566	43.44	<.0001	0	or9

Constant Estimate -0.68591
Variance Estimate 58.97823
Std Error Estimate 7.679729
AIC 919.6535
SBC 954.1559
Number of Residuals 131

Other Retail Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter	MU	CUST MA1,1	CUST AR1,1	or1 NUM1	or2 NUM2	or3 NUM3
CUST	1.000	-0.014	-0.012	0.002	-0.000	-0.000
CUST MA1,1	-0.014	1.000	0.052	0.017	0.103	0.064
CUST AR1,1	-0.012	0.052	1.000	0.096	-0.106	-0.066
or1	0.002	0.017	0.096	1.000	-0.009	-0.005
or2	-0.000	0.103	-0.106	-0.009	1.000	0.315
or3	-0.000	0.064	-0.066	-0.005	0.315	1.000
or4	-0.001	-0.004	0.056	0.006	-0.007	-0.005
or5	-0.001	0.017	0.020	-0.153	-0.000	-0.000
or6	0.001	-0.015	-0.060	-0.006	0.274	0.086
or7	0.001	-0.010	-0.037	-0.004	0.085	0.273
or8	0.000	0.046	-0.062	-0.005	0.012	0.007
or9	-0.001	0.003	0.031	0.003	-0.003	-0.002

Correlations of Parameter Estimates

Variable Parameter	or4 NUM4	or5 NUM5	or6 NUM6	or7 NUM7	or8 NUM8	or9 NUM9
CUST	-0.001	-0.001	0.001	0.001	0.000	-0.001
CUST MA1,1	-0.004	0.017	-0.015	-0.010	0.046	0.003
CUST AR1,1	0.056	0.020	-0.060	-0.037	-0.062	0.031
or1	0.006	-0.153	-0.006	-0.004	-0.005	0.003
or2	-0.007	-0.000	0.274	0.085	0.012	-0.003
or3	-0.005	-0.000	0.086	0.273	0.007	-0.002
or4	1.000	-0.000	-0.003	-0.002	-0.004	0.002
or5	-0.000	1.000	-0.001	-0.001	-0.000	0.001
or6	-0.003	-0.001	1.000	0.307	0.003	-0.002

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or7	NUM7	-0.002	-0.001	0.307	1.000	0.002	-0.001
or8	NUM8	-0.004	-0.000	0.003	0.002	1.000	-0.001
or9	NUM9	0.002	0.001	-0.002	-0.001	-0.001	1.000

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The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----												
6	6.10	4	0.1919	0.001	0.002	-0.043	0.156	-0.129								
12	13.28	10	0.2083	-0.005	0.146	-0.050	-0.095	0.102								
18	22.95	16	0.1150	0.043	-0.006	-0.012	-0.094	-0.118								
24	30.46	22	0.1077	-0.099	-0.153	-0.089	0.012	0.055								

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
0	58.978232	1.00000	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
1	0.055958	0.00095																					
2	0.091971	0.00156																					
3	-2.561081	-.04342																					

Std Error

0
0.087370
0.087370
0.087371

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0.087535	4	9.220315	0.15633	.	***.
0.089641	5	-7.592314	-0.12873	.***	.
0.091042	6	-2.216491	-0.03758	.	*
0.091160	7	-0.278697	-0.00473	.	.
0.091162	8	8.613519	0.14605	.	***.
0.092931	9	-2.975713	-0.05045	.	*
0.093140	10	-5.616650	-0.09523	.	**
0.093880	11	6.022116	0.10211	.	**
0.094724	12	4.816148	0.08166	.	**
0.095260	13	2.523610	0.04279	.	*
0.095406	14	-0.326570	-0.00554	.	.
0.095409	15	-0.687475	-0.01166	.	.
0.095420	16	-5.561544	-0.09430	.	**
0.096128	17	-6.953530	-0.11790	.	**
0.097226	18	-11.539713	-0.19566	****	.
0.100187	19	-5.825764	-0.09878	.	**
0.100927	20	-9.011864	-0.15280	.	***
0.102678	21	-5.267557	-0.08931	.	**

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14	0.02632		.		*		.
15	-0.07298		.		*		.
16	-0.10859		.		**		.
17	-0.10940		.		**		.
18	-0.16730		.		***		.
19	-0.13856		.		***		.
20	-0.19136		.		****		.
21	-0.12872		.		***		.
22	0.00079		.		.		.
23	0.03167		.		*		.
24	-0.05270		.		*		.

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Other Retail Customers

The ARIMA Procedure

Model for variable CUST

Estimated Intercept -0.97466
 Period(s) of Differencing 1

Autoregressive Factors

Factor 1: 1 - 0.29625 B**(24)

Moving Average Factors

Factor 1: 1 - 0.38849 B**(1)

Input Number 1

Input Variable or1
 Period(s) of Differencing 1
 Overall Regression Factor 37.53119

Input Number 2

Input Variable	or2
Period(s) of Differencing	1
Overall Regression Factor	-50.7731

Input Number 3

Input Variable	or3
Period(s) of Differencing	1
Overall Regression Factor	34.62277

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Other Retail Customers

The ARIMA Procedure

Input Number 4

Input Variable	or4
Period(s) of Differencing	1
Overall Regression Factor	132.5568

Input Number 5

Input Variable	or5
Period(s) of Differencing	1
Overall Regression Factor	165.039

Input Number 6

Input Variable	or6
Period(s) of Differencing	1

Overall Regression Factor 62.71022

Input Number 7

Input Variable or7
 Period(s) of Differencing 1
 Overall Regression Factor -122.326

Input Number 8

Input Variable or8
 Period(s) of Differencing 1
 Overall Regression Factor 30.0952
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Other Retail Customers

The ARIMA Procedure

Input Number 9

Input Variable or9
 Period(s) of Differencing 1
 Overall Regression Factor 170.5304

Outlier Detection Summary

Maximum number searched 3
 Number found 3
 Significance used 0.05

Outlier Details

Chi -
 Approx
 Prob>

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Obs	Time ID	Type	Estimate	Square	ChiSq
80	AUG2014	Shift	-23.78855	20.13	<.0001
64	APR2013	Additive	19.96068	22.83	<.0001
70	OCT2013	Additive	17.37456	18.39	<.0001

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	1571.1671	7.6797	1556.1151 1586.2191
134	1568.7037	9.0018	1551.0605 1586.3469
135	1571.2766	10.1532	1551.3767 1591.1764
136	1570.8869	11.1867	1548.9615 1592.8124
137	1565.1647	12.1324	1541.3856 1588.9438
138	1563.8863	13.0096	1538.3879 1589.3847
139	1566.7554	13.8313	1539.6466 1593.8643
140	1562.2182	14.6068	1533.5894 1590.8471
141	1560.9398	15.3432	1530.8677 1591.0119

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Other Retail Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
142	1560.2539	16.0458	1528.8047 1591.7031
143	1563.1230	16.7189	1530.3545 1595.8915
144	1561.5483	17.3660	1527.5117 1595.5850
145	1561.4549	17.9898	1526.1957 1596.7142
146	1556.9177	18.5926	1520.4769 1593.3586
147	1556.5281	19.1766	1518.9427 1594.1134
148	1554.6572	19.7432	1515.9612 1593.3531
149	1553.0825	20.2941	1513.3069 1592.8581

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150	1551.9612	20.8303	1511.1345	1592.7879
151	1550.6648	21.3532	1508.8133	1592.5162
152	1550.1360	21.8635	1507.2843	1592.9876
153	1548.5613	22.3622	1504.7323	1592.3904
154	1548.1717	22.8500	1503.3865	1592.9568
155	1549.8558	23.3276	1504.1346	1595.5770
156	1549.1698	23.7956	1502.5314	1595.8083
157	1547.3484	24.7958	1498.7496	1595.9472
158	1545.9327	25.5321	1495.8908	1595.9747
159	1546.0090	26.2478	1494.5644	1597.4537
160	1545.2077	26.9444	1492.3976	1598.0178
161	1542.8266	27.6235	1488.6854	1596.9677
162	1541.7619	28.2863	1486.3217	1597.2021
163	1541.9260	28.9340	1485.2165	1598.6355
164	1539.8959	29.5674	1481.9449	1597.8470
165	1538.8313	30.1876	1479.6647	1597.9978
166	1537.9422	30.7952	1477.5846	1598.2997
167	1538.1062	31.3911	1476.5807	1599.6317
168	1536.9538	31.9759	1474.2821	1599.6255

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2008	1	399,721			IMI
2	2008	1	51,011			IMI
3.1	2008	1	4,103			IMI
3.2	2008	1	9			IMI
3.4	2008	1	1	1	1	IMI
4	2008	1	1,711			IMI
1	2008	2	399,823			IMI
2	2008	2	50,875	50721.17	51341.1	IMI
3.1	2008	2	4,158	4119.822	4211.992	IMI
3.2	2008	2	9			IMI
3.4	2008	2	1	1	1	IMI
4	2008	2	1,708	1693.118	1726.932	IMI
1	2008	3	399,658			IMI
2	2008	3	50,878	50696.48	51242.06	IMI
3.1	2008	3	4,143	4115.555	4202.222	IMI
3.2	2008	3	9			IMI
3.4	2008	3	1	1	1	IMI
4	2008	3	1,697	1691.794	1723.624	IMI
1	2008	4	398,599			IMI
2	2008	4	50,990	50693.12	51215.07	IMI
3.1	2008	4	4,151	4117.582	4188.18	IMI
3.2	2008	4	9			IMI
3.4	2008	4	1	1	1	IMI
4	2008	4	1,701	1684.322	1715.887	IMI
1	2008	5	397,865			IMI
2	2008	5	50,998	50730.12	51242.05	IMI
3.1	2008	5	4,176	4119.021	4188.048	IMI
3.2	2008	5	9			IMI
3.4	2008	5	1	1	1	IMI
4	2008	5	1,696	1683.916	1715.442	IMI
1	2008	6	397,361			IMI
2	2008	6	51,043	50756.24	51263.43	IMI
3.1	2008	6	4,179	4118.027	4187.052	IMI
3.2	2008	6	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2008	6	1	1	1	IMI
4	2008	6	1,701	1680.694	1712.214	IMI
1	2008	7	397,520			IMI
2	2008	7	51,128	50787.19	51292.03	IMI
3.1	2008	7	4,167	4118.755	4187.779	IMI
3.2	2008	7	9			IMI
3.4	2008	7	1	1	1	IMI
4	2008	7	1,687	1682.5	1714.019	IMI
1	2008	8	397,862			IMI
2	2008	8	51,223	50833.03	51336.66	IMI
3.1	2008	8	4,158	4128.17	4197.186	IMI
3.2	2008	8	9			IMI
3.4	2008	8	1	1	1	IMI
4	2008	8	1,690	1674.64	1706.159	IMI
1	2008	9	397,361			IMI
2	2008	9	51,229	50892.24	51395.25	IMI
3.1	2008	9	4,168	4132.623	4201.634	IMI
3.2	2008	9	9			IMI
3.4	2008	9	1	1	1	IMI
4	2008	9	1,688	1673.421	1704.94	IMI
1	2008	10	397,404			IMI
2	2008	10	51,268	50936.3	51438.99	IMI
3.1	2008	10	4,176	4131.476	4200.475	IMI
3.2	2008	10	9			IMI
3.4	2008	10	1	1	1	IMI
4	2008	10	1,690	1671.725	1703.243	IMI
1	2008	11	397,519			IMI
2	2008	11	51,216	50978.85	51481.37	IMI
3.1	2008	11	4,147	4126.199	4195.163	IMI
3.2	2008	11	9			IMI
3.4	2008	11	1	1	1	IMI
4	2008	11	1,694	1672.288	1703.807	IMI
1	2008	12	398,027			IMI
2	2008	12	50,565	50444.46	50946.9	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2008	12	4,090	4058.017	4126.974	IMI
3.2	2008	12	9			IMI
3.4	2008	12	1	1	1	IMI
4	2008	12	1,705	1674.954	1706.472	IMI
1	2009	1	398,950	398338.4	402706.2	IMI
2	2009	1	51,751	51547.4	52043.53	IMI
3.1	2009	1	4,227	4189.382	4258.217	IMI
3.2	2009	1	9			IMI
3.4	2009	1	1	1	1	IMI
4	2009	1	1,711	1682.716	1714.234	IMI
1	2009	2	398,158	398020.1	400807.5	IMI
2	2009	2	51,263	50973.81	51468.03	IMI
3.1	2009	2	4,186	4120.929	4189.764	IMI
3.2	2009	2	9			IMI
3.4	2009	2	1	1	1	IMI
4	2009	2	1,710	1689.4	1720.919	IMI
1	2009	3	399,368	397387	399976	IMI
2	2009	3	51,712	51002.9	51496.15	IMI
3.1	2009	3	4,270	4215.6	4283.982	IMI
3.2	2009	3	9			IMI
3.4	2009	3	1	1	1	IMI
4	2009	3	1,704	1691.385	1722.904	IMI
1	2009	4	396,632	396751.5	399182.5	IMI
2	2009	4	51,334	51171.11	51663.86	IMI
3.1	2009	4	4,190	4127.341	4195.359	IMI
3.2	2009	4	9			IMI
3.4	2009	4	1	1	1	IMI
4	2009	4	1,692	1688.488	1720.007	IMI
1	2009	5	396,399	395484.5	397884.1	IMI
2	2009	5	51,235	51165.71	51658.19	IMI
3.1	2009	5	4,176	4147.188	4215.17	IMI
3.2	2009	5	9			IMI
3.4	2009	5	1	1	1	IMI
4	2009	5	1,696	1680.024	1711.543	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2009	6	396,231	395030.6	397401.9	IMI
2	2009	6	51,334	51141.74	51634.09	IMI
3.1	2009	6	4,186	4139.255	4206.744	IMI
3.2	2009	6	9			IMI
3.4	2009	6	1	1	1	IMI
4	2009	6	1,692	1679.182	1710.701	IMI
1	2009	7	396,185	395275	397642	IMI
2	2009	7	51,383	51159.93	51652.21	IMI
3.1	2009	7	4,197	4142.945	4210.364	IMI
3.2	2009	7	9			IMI
3.4	2009	7	1	1	1	IMI
4	2009	7	1,705	1676.409	1707.927	IMI
1	2009	8	396,403	395299.2	397666.1	IMI
2	2009	8	51,269	51188.66	51680.9	IMI
3.1	2009	8	4,180	4141.627	4209.046	IMI
3.2	2009	8	9			IMI
3.4	2009	8	1	1	1	IMI
4	2009	8	1,702	1683.281	1714.8	IMI
1	2009	9	396,466	395031.8	397390.4	IMI
2	2009	9	51,360	51160.06	51652.28	IMI
3.1	2009	9	4,168	4140.144	4207.563	IMI
3.2	2009	9	9			IMI
3.4	2009	9	1	1	1	IMI
4	2009	9	1,700	1684.116	1715.635	IMI
1	2009	10	395,723	395361.1	397718.6	IMI
2	2009	10	51,518	51171.19	51663.4	IMI
3.1	2009	10	4,197	4148.217	4215.635	IMI
3.2	2009	10	9			IMI
3.4	2009	10	1	1	1	IMI
4	2009	10	1,698	1683.218	1714.736	IMI
1	2009	11	396,774	395103.3	397458.3	IMI
2	2009	11	51,454	51204.79	51696.99	IMI
3.1	2009	11	4,148	4151.244	4218.663	IMI
3.2	2009	11	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2009	11	1	1	1	1 IMI
4	2009	11	1,711	1681.645	1713.164	IMI
1	2009	12	397,853	395954.3	398306.8	IMI
2	2009	12	51,250	51201.7	51693.9	IMI
3.1	2009	12	4,066	4042.664	4110.083	IMI
3.2	2009	12	9			IMI
3.4	2009	12	1	1	1	1 IMI
4	2009	12	1,702	1688.984	1720.503	IMI
1	2010	1	398,337	397150.5	399403.7	IMI
2	2010	1	51,470	51176.42	51668.36	IMI
3.1	2010	1	4,135	4139.921	4207.34	IMI
3.2	2010	1	9			IMI
3.4	2010	1	1	1	1	1 IMI
4	2010	1	1,712	1687.054	1718.364	IMI
1	2010	2	390,581	388891.7	391060.8	IMI
2	2010	2	50,297	49882.81	50374.67	IMI
3.1	2010	2	4,172	4140.153	4207.571	IMI
3.2	2010	2	9			IMI
3.4	2010	2	1	1	1	1 IMI
4	2010	2	1,668	1654.42	1684.695	IMI
1	2010	3	407,289	405937.4	408080.1	IMI
2	2010	3	53,090	52724.29	53216.11	IMI
3.1	2010	3	4,129	4084.274	4151.693	IMI
3.2	2010	3	9			IMI
3.4	2010	3	1	1	1	1 IMI
4	2010	3	1,738	1724.651	1754.781	IMI
1	2010	4	397,687	396151	398265.9	IMI
2	2010	4	51,556	51348.55	51840.35	IMI
3.1	2010	4	4,122	4097.697	4165.116	IMI
3.2	2010	4	9			IMI
3.4	2010	4	1	1	1	1 IMI
4	2010	4	1,690	1686.579	1716.687	IMI
1	2010	5	396,663	395857.1	397966.4	IMI
2	2010	5	51,454	51333.74	51825.53	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2010	5	4,104	4093.999	4161.418	IMI
3.2	2010	5	9			IMI
3.4	2010	5	1	1	1	IMI
4	2010	5	1,685	1677.299	1707.403	IMI
1	2010	6	396,948	395655.1	397758.4	IMI
2	2010	6	51,582	51334.48	51826.26	IMI
3.1	2010	6	4,114	4091.833	4159.252	IMI
3.2	2010	6	9			IMI
3.4	2010	6	1	1	1	IMI
4	2010	6	1,683	1673.599	1703.703	IMI
1	2010	7	396,963	395886	397988.7	IMI
2	2010	7	51,609	51358.38	51850.16	IMI
3.1	2010	7	4,150	4088.749	4156.168	IMI
3.2	2010	7	9			IMI
3.4	2010	7	1	1	1	IMI
4	2010	7	1,683	1665.31	1695.414	IMI
1	2010	8	396,564	396126.1	398228.7	IMI
2	2010	8	51,461	51348.78	51840.55	IMI
3.1	2010	8	4,083	4081.783	4149.202	IMI
3.2	2010	8	9			IMI
3.4	2010	8	1	1	1	IMI
4	2010	8	1,676	1667.126	1697.23	IMI
1	2010	9	396,560	395736.6	397837	IMI
2	2010	9	51,485	51347.25	51839.03	IMI
3.1	2010	9	4,055	4058.367	4125.786	IMI
3.2	2010	9	9			IMI
3.4	2010	9	1	1	1	IMI
4	2010	9	1,670	1662.07	1692.174	IMI
1	2010	10	396,783	395472.6	397572.8	IMI
2	2010	10	51,653	51365.37	51857.14	IMI
3.1	2010	10	4,139	4074.644	4142.063	IMI
3.2	2010	10	9			IMI
3.4	2010	10	1	1	1	IMI
4	2010	10	1,666	1657.621	1687.725	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2010	11	397,393	396002.7	398101.8	IMI
2	2010	11	51,671	51382.55	51874.32	IMI
3.1	2010	11	4,115	4080.677	4148.095	IMI
3.2	2010	11	9			IMI
3.4	2010	11	1	1	1	IMI
4	2010	11	1,679	1654.04	1684.144	IMI
1	2010	12	397,635	396848.9	398946.9	IMI
2	2010	12	50,853	50790.87	51282.64	IMI
3.1	2010	12	3,983	3947.324	4014.743	IMI
3.2	2010	12	9			IMI
3.4	2010	12	1	1	1	IMI
4	2010	12	1,663	1662.672	1692.776	IMI
1	2011	1	399,898	397699.5	399768.2	IMI
2	2011	1	52,113	51963.71	52455.47	IMI
3.1	2011	1	4,111	4069.124	4136.543	IMI
3.2	2011	1	9			IMI
3.4	2011	1	1	1	1	IMI
4	2011	1	1,682	1654.76	1684.864	IMI
1	2011	2	389,652	389183.6	391226.4	IMI
2	2011	2	50,389	50179.78	50671.54	IMI
3.1	2011	2	4,113	4081.341	4148.76	IMI
3.2	2011	2	9			IMI
3.4	2011	2	1	1	1	IMI
4	2011	2	1,622	1610.458	1640.562	IMI
1	2011	3	407,730	407467.3	409501.2	IMI
2	2011	3	53,630	53427.6	53919.35	IMI
3.1	2011	3	4,066	4039.006	4106.424	IMI
3.2	2011	3	9			IMI
3.4	2011	3	1	1	1	IMI
4	2011	3	1,703	1691.244	1721.348	IMI
1	2011	4	397,409	396580	398604.2	IMI
2	2011	4	51,641	51394.7	51886.45	IMI
3.1	2011	4	4,091	4057.67	4125.088	IMI
3.2	2011	4	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2011	4	1	1	1	1 IMI
4	2011	4	1,659	1650.365	1680.469	IMI
1	2011	5	397,102	395962.1	397984.3	IMI
2	2011	5	51,581	51394.54	51886.3	IMI
3.1	2011	5	4,096	4067.061	4134.48	IMI
3.2	2011	5	9			IMI
3.4	2011	5	1	1	1	1 IMI
4	2011	5	1,660	1646.94	1677.044	IMI
1	2011	6	396,490	395573.5	397593.5	IMI
2	2011	6	51,639	51417.52	51909.27	IMI
3.1	2011	6	4,092	4063.088	4130.507	IMI
3.2	2011	6	9			IMI
3.4	2011	6	1	1	1	1 IMI
4	2011	6	1,660	1643.851	1673.955	IMI
1	2011	7	396,222	395585.3	397605.1	IMI
2	2011	7	51,408	51431.64	51923.4	IMI
3.1	2011	7	4,070	4058.735	4126.154	IMI
3.2	2011	7	9			IMI
3.4	2011	7	1	1	1	1 IMI
4	2011	7	1,657	1647.687	1677.791	IMI
1	2011	8	396,967	395710.6	397730.5	IMI
2	2011	8	51,812	51348.56	51840.32	IMI
3.1	2011	8	4,106	4051.78	4119.199	IMI
3.2	2011	8	9			IMI
3.4	2011	8	1	1	1	1 IMI
4	2011	8	1,655	1642.603	1672.707	IMI
1	2011	9	396,809	395658.8	397677.7	IMI
2	2011	9	51,594	51426.54	51918.29	IMI
3.1	2011	9	4,097	4054.012	4121.431	IMI
3.2	2011	9	9			IMI
3.4	2011	9	1	1	1	1 IMI
4	2011	9	1,521	1507.144	1537.248	IMI
1	2011	10	396,623	395417.5	397436.4	IMI
2	2011	10	51,627	51449.98	51941.74	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2011	10	4,105	4051.675	4119.094	IMI
3.2	2011	10	9			IMI
3.4	2011	10	1	1	1	IMI
4	2011	10	1,792	1770.248	1800.352	IMI
1	2011	11	397,135	396177.7	398196.1	IMI
2	2011	11	51,612	51453.64	51945.39	IMI
3.1	2011	11	4,085	4068.745	4136.164	IMI
3.2	2011	11	9			IMI
3.4	2011	11	1	1	1	IMI
4	2011	11	1,663	1644.954	1675.058	IMI
1	2011	12	397,750	396956	398973.9	IMI
2	2011	12	51,520	51404.79	51896.55	IMI
3.1	2011	12	4,076	4049.56	4116.979	IMI
3.2	2011	12	9			IMI
3.4	2011	12	1	1	1	IMI
4	2011	12	1,662	1643.433	1673.537	IMI
1	2012	1	398,367	398142.5	400148.6	IMI
2	2012	1	51,820	51396.32	51888.08	IMI
3.1	2012	1	4,109	4055.363	4122.782	IMI
3.2	2012	1	9			IMI
3.4	2012	1	1	1	1	IMI
4	2012	1	1,669	1647.859	1677.963	IMI
1	2012	2	398,530	397309.9	399305.4	IMI
2	2012	2	51,699	51472.6	51964.36	IMI
3.1	2012	2	4,090	4059.654	4127.073	IMI
3.2	2012	2	9			IMI
3.4	2012	2	1	1	1	IMI
4	2012	2	1,655	1648.98	1679.084	IMI
1	2012	3	398,516	397858.3	399850	IMI
2	2012	3	51,680	51483.81	51975.56	IMI
3.1	2012	3	4,090	4039.587	4107.006	IMI
3.2	2012	3	9			IMI
3.4	2012	3	1	1	1	IMI
4	2012	3	1,495	1476.232	1506.336	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2012	4	398,109	395996.6	397984.2	IMI
2	2012	4	51,727	51496.83	51988.59	IMI
3.1	2012	4	4,081	4057.838	4125.257	IMI
3.2	2012	4	9			IMI
3.4	2012	4	1	1	1	IMI
4	2012	4	1,817	1804.795	1834.899	IMI
1	2012	5	397,982	395820.4	397807.1	IMI
2	2012	5	51,727	51500.16	51991.91	IMI
3.1	2012	5	4,092	4052.412	4119.831	IMI
3.2	2012	5	9			IMI
3.4	2012	5	1	1	1	IMI
4	2012	5	1,655	1635.848	1665.952	IMI
1	2012	6	397,392	396067.3	398053.1	IMI
2	2012	6	51,706	51518.9	52010.65	IMI
3.1	2012	6	4,083	4052.695	4120.114	IMI
3.2	2012	6	9			IMI
3.4	2012	6	1	1	1	IMI
4	2012	6	1,655	1637.077	1667.181	IMI
1	2012	7	397,536	396258.6	398244.4	IMI
2	2012	7	51,783	51470.22	51961.97	IMI
3.1	2012	7	4,082	4046.31	4113.729	IMI
3.2	2012	7	9			IMI
3.4	2012	7	1	1	1	IMI
4	2012	7	1,654	1638.147	1668.251	IMI
1	2012	8	397,325	396960.5	398946.3	IMI
2	2012	8	51,727	51594.92	52086.67	IMI
3.1	2012	8	4,096	4048.576	4115.995	IMI
3.2	2012	8	9			IMI
3.4	2012	8	1	1	1	IMI
4	2012	8	1,656	1635.877	1665.981	IMI
1	2012	9	397,621	396617	398602.3	IMI
2	2012	9	51,857	51534.37	52026.13	IMI
3.1	2012	9	4,097	4054.532	4121.95	IMI
3.2	2012	9	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2012	9	1	1	1	1 IMI
4	2012	9	1,649	1636.515	1666.619	IMI
1	2012	10	398,003	396390.6	398375.9	IMI
2	2012	10	51,960	51573.22	52064.97	IMI
3.1	2012	10	4,098	4043.192	4110.61	IMI
3.2	2012	10	9			IMI
3.4	2012	10	1	1	1	1 IMI
4	2012	10	1,644	1633.074	1663.178	IMI
1	2012	11	398,380	397137.8	399122.9	IMI
2	2012	11	51,861	51624.5	52116.25	IMI
3.1	2012	11	4,077	4054.65	4122.069	IMI
3.2	2012	11	9			IMI
3.4	2012	11	1	1	1	1 IMI
4	2012	11	1,657	1633.716	1663.82	IMI
1	2012	12	398,898	397823.9	399808.8	IMI
2	2012	12	51,856	51627.98	52119.73	IMI
3.1	2012	12	4,061	4045.793	4113.212	IMI
3.2	2012	12	9			IMI
3.4	2012	12	1	1	1	1 IMI
4	2012	12	1,655	1633.324	1663.428	IMI
1	2013	1	400,484	399122.7	401102.2	IMI
2	2013	1	52,024	51699.97	52191.73	IMI
3.1	2013	1	4,102	4049.59	4117.009	IMI
3.2	2013	1	9			IMI
3.4	2013	1	1	1	1	1 IMI
4	2013	1	1,654	1642.318	1672.422	IMI
1	2013	2	399,800	399022.8	400997.4	IMI
2	2013	2	51,828	51710.86	52202.61	IMI
3.1	2013	2	4,070	4055.129	4122.548	IMI
3.2	2013	2	9			IMI
3.4	2013	2	1	1	1	1 IMI
4	2013	2	1,720	1699.548	1729.652	IMI
1	2013	3	400,332	399190.8	401163.7	IMI
2	2013	3	51,131	50945.92	51437.68	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2013	3	4,042	4023.373	4090.792	IMI
3.2	2013	3	9			IMI
3.4	2013	3	1	1	1	IMI
4	2013	3	1,537	1515.826	1545.93	IMI
1	2013	4	398,819	398054.6	400025.6	IMI
2	2013	4	52,645	52437.45	52929.2	IMI
3.1	2013	4	4,109	4036.555	4103.973	IMI
3.2	2013	4	9			IMI
3.4	2013	4	1	1	1	IMI
4	2013	4	1,666	1638.431	1668.535	IMI
1	2013	5	398,904	397618.4	399589	IMI
2	2013	5	51,912	51703.37	52195.12	IMI
3.1	2013	5	4,058	4049.809	4117.228	IMI
3.2	2013	5	9			IMI
3.4	2013	5	1	1	1	IMI
4	2013	5	1,640	1645.696	1675.8	IMI
1	2013	6	398,478	397299.5	399269.7	IMI
2	2013	6	51,943	51703.8	52195.56	IMI
3.1	2013	6	4,057	4014.757	4082.176	IMI
3.2	2013	6	9			IMI
3.4	2013	6	1	1	1	IMI
4	2013	6	1,639	1632.322	1662.426	IMI
1	2013	7	398,887	397375.1	399345.3	IMI
2	2013	7	52,135	51744.91	52236.67	IMI
3.1	2013	7	4,067	4039.622	4107.041	IMI
3.2	2013	7	9			IMI
3.4	2013	7	1	1	1	IMI
4	2013	7	1,641	1625.627	1655.731	IMI
1	2013	8	398,652	397715.3	399685.5	IMI
2	2013	8	52,210	51771.14	52262.9	IMI
3.1	2013	8	4,066	4034.214	4101.633	IMI
3.2	2013	8	9			IMI
3.4	2013	8	1	1	1	IMI
4	2013	8	1,637	1624.545	1654.649	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2013	9	399,294	397808.7	399778.7	IMI
2	2013	9	52,010	51877.88	52369.63	IMI
3.1	2013	9	4,067	4020.792	4088.211	IMI
3.2	2013	9	9			IMI
3.4	2013	9	1	1	1	IMI
4	2013	9	1,636	1621.843	1651.947	IMI
1	2013	10	401,970	401038.3	403008.3	IMI
2	2013	10	52,329	51884.34	52376.09	IMI
3.1	2013	10	4,072	4023.578	4090.997	IMI
3.2	2013	10	9			IMI
3.4	2013	10	1	1	1	IMI
4	2013	10	1,657	1622.354	1652.458	IMI
1	2013	11	399,990	398562.9	400532.7	IMI
2	2013	11	51,975	51936.3	52428.05	IMI
3.1	2013	11	4,040	4027.218	4094.637	IMI
3.2	2013	11	9			IMI
3.4	2013	11	1	1	1	IMI
4	2013	11	1,646	1634.704	1664.808	IMI
1	2013	12	401,313	399318.2	401287.9	IMI
2	2013	12	52,042	51896.76	52388.52	IMI
3.1	2013	12	4,037	4015.708	4083.127	IMI
3.2	2013	12	9			IMI
3.4	2013	12	1	1	1	IMI
4	2013	12	1,645	1631.425	1661.529	IMI
1	2014	1	401,548	400966.9	402934.1	IMI
2	2014	1	52,083	51908.03	52399.79	IMI
3.1	2014	1	4,027	4024.541	4091.96	IMI
3.2	2014	1	9			IMI
3.4	2014	1	1	1	1	IMI
4	2014	1	1,645	1631.91	1662.014	IMI
1	2014	2	400,169	400427.4	402392.4	IMI
2	2014	2	51,782	51869.89	52361.65	IMI
3.1	2014	2	4,035	4009.34	4076.758	IMI
3.2	2014	2	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2014	2	1	1	1	IMI
4	2014	2	1,634	1625.877	1655.981	IMI
1	2014	3	401,582	400614.1	402578.2	IMI
2	2014	3	51,989	51804.36	52296.11	IMI
3.1	2014	3	4,037	3994.565	4061.983	IMI
3.2	2014	3	9			IMI
3.4	2014	3	1	1	1	IMI
4	2014	3	1,640	1622.447	1652.551	IMI
1	2014	4	401,090	399224.3	401187.5	IMI
2	2014	4	52,009	51808.72	52300.47	IMI
3.1	2014	4	4,022	3997.253	4064.672	IMI
3.2	2014	4	9			IMI
3.4	2014	4	1	1	1	IMI
4	2014	4	1,615	1620.897	1651.001	IMI
1	2014	5	399,637	398836.8	400799.8	IMI
2	2014	5	51,964	51814.24	52306	IMI
3.1	2014	5	4,031	3994.626	4062.045	IMI
3.2	2014	5	9			IMI
3.4	2014	5	1	1	1	IMI
4	2014	5	1,622	1608.301	1638.405	IMI
1	2014	6	399,273	398415	400377.8	IMI
2	2014	6	51,965	51811.99	52303.75	IMI
3.1	2014	6	4,026	3988.306	4055.725	IMI
3.2	2014	6	9			IMI
3.4	2014	6	1	1	1	IMI
4	2014	6	1,621	1606.788	1636.892	IMI
1	2014	7	399,030	398941.9	400904.7	IMI
2	2014	7	51,929	51837.51	52329.26	IMI
3.1	2014	7	4,019	3993.924	4061.343	IMI
3.2	2014	7	9			IMI
3.4	2014	7	1	1	1	IMI
4	2014	7	1,621	1605.292	1635.396	IMI
1	2014	8	400,060	398592.1	400554.9	IMI
2	2014	8	52,185	51833.4	52325.16	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2014	8	4,017	3984.558	4051.977	IMI
3.2	2014	8	9			IMI
3.4	2014	8	1	1	1	IMI
4	2014	8	1,598	1605.6	1635.704	IMI
1	2014	9	400,110	398630.2	400592.9	IMI
2	2014	9	52,103	51829.96	52321.72	IMI
3.1	2014	9	4,020	3987.546	4054.965	IMI
3.2	2014	9	9			IMI
3.4	2014	9	1	1	1	IMI
4	2014	9	1,594	1588.988	1619.092	IMI
1	2014	10	399,724	398698.2	400660.9	IMI
2	2014	10	52,046	51916.25	52408	IMI
3.1	2014	10	4,007	3982.801	4050.22	IMI
3.2	2014	10	9			IMI
3.4	2014	10	1	1	1	IMI
4	2014	10	1,590	1580.681	1610.785	IMI
1	2014	11	401,121	399532	401494.6	IMI
2	2014	11	52,198	51831.03	52322.78	IMI
3.1	2014	11	4,015	3973.055	4040.474	IMI
3.2	2014	11	9			IMI
3.4	2014	11	1	1	1	IMI
4	2014	11	1,610	1580.341	1610.445	IMI
1	2014	12	402,095	400740.8	402703.4	IMI
2	2014	12	52,232	51894.95	52386.7	IMI
3.1	2014	12	4,000	3977.304	4044.722	IMI
3.2	2014	12	9			IMI
3.4	2014	12	1	1	1	IMI
4	2014	12	1,600	1587.995	1618.099	IMI
1	2015	1	401,913	401679	403640.3	IMI
2	2015	1	52,067	51940.71	52432.47	IMI
3.1	2015	1	4,001	3973.787	4041.206	IMI
3.2	2015	1	9			IMI
3.4	2015	1	1	1	1	IMI
4	2015	1	1,595	1585.149	1615.253	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2015	2	402,958	400760.7	402720.9	IMI
2	2015	2	52,256	51868.81	52360.57	IMI
3.1	2015	2	4,000	3974.19	4041.609	IMI
3.2	2015	2	9			IMI
3.4	2015	2	1	1	1	IMI
4	2015	2	1,600	1582.257	1612.361	IMI
1	2015	3	402,956	402059.1	404018.9	IMI
2	2015	3	52,356	51965.64	52457.4	IMI
3.1	2015	3	4,047	3970.934	4038.353	IMI
3.2	2015	3	9			IMI
3.4	2015	3	1	1	1	IMI
4	2015	3	1,604	1583.82	1613.924	IMI
1	2015	4	401,923	400778.4	402737.8	IMI
2	2015	4	52,244	52025.5	52517.26	IMI
3.1	2015	4	4,032	3978.66	4046.079	IMI
3.2	2015	4	9			IMI
3.4	2015	4	1	1	1	IMI
4	2015	4	1,589	1588.247	1618.351	IMI
1	2015	5	400,265	400264.9	402224.2	IMI
2	2015	5	52,098	52024.89	52516.64	IMI
3.1	2015	5	3,966	3970.012	4037.431	IMI
3.2	2015	5	9			IMI
3.4	2015	5	1	1	1	IMI
4	2015	5	1,582	1571.115	1601.219	IMI
1	2015	6	401,405	399838.1	401797.2	IMI
2	2015	6	52,451	51992.32	52484.07	IMI
3.1	2015	6	4,010	3973.084	4040.503	IMI
3.2	2015	6	9			IMI
3.4	2015	6	1	1	1	IMI
4	2015	6	1,591	1567.585	1597.689	IMI
1	2015	7	400,827	399864.8	401823.9	IMI
2	2015	7	52,410	52053.17	52544.93	IMI
3.1	2015	7	4,000	3990.383	4057.802	IMI
3.2	2015	7	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2015	7	1	1	1	IMI
4	2015	7	1,587	1572.605	1602.709	IMI
1	2015	8	400,209	399973.9	401933.1	IMI
2	2015	8	52,323	52149.37	52641.12	IMI
3.1	2015	8	3,988	3952.387	4019.806	IMI
3.2	2015	8	9			IMI
3.4	2015	8	1	1	1	IMI
4	2015	8	1,589	1570.333	1600.436	IMI
1	2015	9	401,046	399959.7	401918.8	IMI
2	2015	9	52,261	52139.22	52630.97	IMI
3.1	2015	9	3,998	3955.854	4023.273	IMI
3.2	2015	9	9			IMI
3.4	2015	9	1	1	1	IMI
4	2015	9	1,588	1571.561	1601.665	IMI
1	2015	10	401,182	400067.9	402027	IMI
2	2015	10	52,397	52096.68	52588.43	IMI
3.1	2015	10	4,040	3964.307	4031.726	IMI
3.2	2015	10	9			IMI
3.4	2015	10	1	1	1	IMI
4	2015	10	1,590	1577.945	1608.049	IMI
1	2015	11	401,443	400675.6	402634.7	IMI
2	2015	11	52,347	52174.66	52666.42	IMI
3.1	2015	11	4,014	3969.334	4036.753	IMI
3.2	2015	11	9			IMI
3.4	2015	11	1	1	1	IMI
4	2015	11	1,604	1572.167	1602.271	IMI
1	2015	12	402,404	401365.8	403324.9	IMI
2	2015	12	52,289	52175.19	52666.95	IMI
3.1	2015	12	3,985	3963.377	4030.795	IMI
3.2	2015	12	9			IMI
3.4	2015	12	1	1	1	IMI
4	2015	12	1,602	1581.447	1611.551	IMI
1	2016	1	403,030	402235.3	404193.7	IMI
2	2016	1	52,256	52120.06	52611.82	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2016	1	3,984	3973.932	4041.351	IMI
3.2	2016	1	9			IMI
3.4	2016	1	1	1	1	IMI
4	2016	1	1,632	1614.22	1644.324	IMI
1	2016	2	403,633	401940.7	403898.6	IMI
2	2016	2	52,639	52157.28	52649.03	IMI
3.1	2016	2	4,010	3974.971	4042.39	IMI
3.2	2016	2	9			IMI
3.4	2016	2	1	1	1	IMI
4	2016	2	1,598	1581.848	1611.952	IMI
1	2016	3	403,392	402520.9	404478.6	IMI
2	2016	3	52,733	52251.53	52743.28	IMI
3.1	2016	3	4,012	3961.576	4028.995	IMI
3.2	2016	3	9			IMI
3.4	2016	3	1	1	1	IMI
4	2016	3	1,594	1583.612	1613.716	IMI
1	2016	4	403,060	401472	403429.5	IMI
2	2016	4	52,488	52309.38	52801.14	IMI
3.1	2016	4	3,992	3955.337	4022.755	IMI
3.2	2016	4	9			IMI
3.4	2016	4	1	1	1	IMI
4	2016	4	1,591	1572.668	1602.772	IMI
1	2016	5	402,383	400910.8	402868.2	IMI
2	2016	5	52,510	52278.99	52770.74	IMI
3.1	2016	5	3,977	3949.589	4017.007	IMI
3.2	2016	5	9			IMI
3.4	2016	5	1	1	1	IMI
4	2016	5	1,589	1576.062	1606.166	IMI
1	2016	6	402,195	401185.7	403143.1	IMI
2	2016	6	52,616	52365.46	52857.22	IMI
3.1	2016	6	3,977	3957.789	4025.208	IMI
3.2	2016	6	9			IMI
3.4	2016	6	1	1	1	IMI
4	2016	6	1,588	1573.787	1603.891	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2016	7	402,165	400985.9	402943.3	IMI
2	2016	7	52,464	52377.93	52869.68	IMI
3.1	2016	7	3,968	3961.654	4029.073	IMI
3.2	2016	7	9			IMI
3.4	2016	7	1	1	1	IMI
4	2016	7	1,585	1572.588	1602.692	IMI
1	2016	8	401,988	401289.4	403246.8	IMI
2	2016	8	52,687	52322.01	52813.77	IMI
3.1	2016	8	4,003	3937.825	4005.244	IMI
3.2	2016	8	9			IMI
3.4	2016	8	1	1	1	IMI
4	2016	8	1,588	1563.474	1593.578	IMI
1	2016	9	402,696	401550.3	403507.7	IMI
2	2016	9	52,589	52360.14	52851.89	IMI
3.1	2016	9	3,982	3953.282	4020.7	IMI
3.2	2016	9	9			IMI
3.4	2016	9	1	1	1	IMI
4	2016	9	1,588	1567.396	1597.5	IMI
1	2016	10	402,791	401455.3	403412.6	IMI
2	2016	10	52,593	52405.64	52897.39	IMI
3.1	2016	10	3,978	3934.364	4001.783	IMI
3.2	2016	10	9			IMI
3.4	2016	10	1	1	1	IMI
4	2016	10	1,588	1568.92	1599.024	IMI
1	2016	11	403,396	402264.8	404222.1	IMI
2	2016	11	52,599	52386.02	52877.77	IMI
3.1	2016	11	3,983	3947.673	4015.092	IMI
3.2	2016	11	9			IMI
3.4	2016	11	1	1	1	IMI
4	2016	11	1,597	1576.622	1606.726	IMI
1	2016	12	405,121	403227.4	405184.7	IMI
2	2016	12	52,722	52380.59	52872.35	IMI
3.1	2016	12	3,980	3939.388	4006.807	IMI
3.2	2016	12	9			IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2016	12	1	1	1	IMI
4	2016	12	1,606	1576.231	1606.335	IMI
1	2017	1	405,414	404245.8	406202.9	IMI
2	2017	1	52,791	52424.16	52915.92	IMI
3.1	2017	1	3,982	3938.652	4006.071	IMI
3.2	2017	1	9			IMI
3.4	2017	1	1	1	1	IMI
4	2017	1	1,596	1583.063	1613.167	IMI
1	2017	2	405,081	404376.5	406333.3	IMI
2	2017	2	52,733	52543.57	53035.32	IMI
3.1	2017	2	3,974	3945.544	4012.963	IMI
3.2	2017	2	9			IMI
3.4	2017	2	1	1	1	IMI
4	2017	2	1,590	1582.565	1612.669	IMI
1	2017	3	405,127	404663.5	406620.2	IMI
2	2017	3	53,051	52561.65	53053.4	IMI
3.1	2017	3	4,002	3945.522	4012.94	IMI
3.2	2017	3	9			IMI
3.4	2017	3	1	1	1	IMI
4	2017	3	1,601	1578.406	1608.51	IMI
1	2017	4	404,607	403746	405702.6	IMI
2	2017	4	53,006	52599.62	53091.37	IMI
3.1	2017	4	3,976	3949.397	4016.816	IMI
3.2	2017	4	9			IMI
3.4	2017	4	1	1	1	IMI
4	2017	4	1,602	1577.888	1607.992	IMI
1	2017	5	404,265	402673.4	404629.9	IMI
2	2017	5	52,960	52671.23	53162.99	IMI
3.1	2017	5	3,989	3933.313	4000.732	IMI
3.2	2017	5	9			IMI
3.4	2017	5	1	1	1	IMI
4	2017	5	1,585	1580.669	1610.773	IMI
1	2017	6	403,913	402739	404695.5	IMI
2	2017	6	52,959	52706.46	53198.21	IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2017	6	3,988	3953.485	4020.904	IMI
3.2	2017	6	9			IMI
3.4	2017	6	1	1	1	IMI
4	2017	6	1,583	1576.093	1606.197	IMI
1	2017	7	404,134	402729.1	404685.6	IMI
2	2017	7	52,962	52694.4	53186.15	IMI
3.1	2017	7	3,974	3950.3	4017.719	IMI
3.2	2017	7	9			IMI
3.4	2017	7	1	1	1	IMI
4	2017	7	1,595	1569.241	1599.345	IMI
1	2017	8	403,912	403026.6	404983.1	IMI
2	2017	8	52,994	52769.5	53261.26	IMI
3.1	2017	8	3,976	3946.921	4014.34	IMI
3.2	2017	8	9			IMI
3.4	2017	8	1	1	1	IMI
4	2017	8	1,582	1575.695	1605.799	IMI
1	2017	9	404,614	403492.3	405448.8	IMI
2	2017	9	53,020	52762.2	53253.96	IMI
3.1	2017	9	3,969	3950.422	4017.841	IMI
3.2	2017	9	9			IMI
3.4	2017	9	1	1	1	IMI
4	2017	9	1,580	1569.364	1599.468	IMI
1	2017	10	404,720	403462.8	405419.3	IMI
2	2017	10	53,046	52776	53267.75	IMI
3.1	2017	10	3,977	3930.284	3997.703	IMI
3.2	2017	10	9			IMI
3.4	2017	10	1	1	1	IMI
4	2017	10	1,580	1566.57	1596.674	IMI
1	2017	11	405,439	404256.2	406212.7	IMI
2	2017	11	53,054	52804.78	53296.53	IMI
3.1	2017	11	3,975	3937.728	4005.147	IMI
3.2	2017	11	9			IMI
3.4	2017	11	1	1	1	IMI
4	2017	11	1,592	1569.04	1599.144	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2017	12	406,353	405458.5	407415	IMI
2	2017	12	53,130	52850.73	53342.48	IMI
3.1	2017	12	3,962	3931.862	3999.281	IMI
3.2	2017	12	9			IMI
3.4	2017	12	1	1	1	IMI
4	2017	12	1,589	1572.597	1602.701	IMI
1	2018	1	406,945	406006.7	407963	IMI
2	2018	1	53,206	52890.93	53382.68	IMI
3.1	2018	1	3,975	3932.033	3999.452	IMI
3.2	2018	1	9			IMI
3.4	2018	1	1	1	1	IMI
4	2018	1	1,591	1572.709	1602.813	IMI
1	2018	2	407,175	405953	407909.2	IMI
2	2018	2	53,190	52900.2	53391.95	IMI
3.1	2018	2	3,966	3938.053	4005.472	IMI
3.2	2018	2	9			IMI
3.4	2018	2	1	1	1	IMI
4	2018	2	1,578	1572.847	1602.951	IMI
1	2018	3	406,942	406188.6	408144.8	IMI
2	2018	3	53,287	52991.8	53483.56	IMI
3.1	2018	3	3,954	3925.694	3993.112	IMI
3.2	2018	3	9			IMI
3.4	2018	3	1	1	1	IMI
4	2018	3	1,579	1564.923	1595.027	IMI
1	2018	4	406,491	405320.1	407276.2	IMI
2	2018	4	53,174	53022.34	53514.1	IMI
3.1	2018	4	3,956	3927.806	3995.225	IMI
3.2	2018	4	9			IMI
3.4	2018	4	1	1	1	IMI
4	2018	4	1,575	1562.752	1592.856	IMI
1	2018	5	406,165	404750.4	406706.5	IMI
2	2018	5	53,243	53001.13	53492.88	IMI
3.1	2018	5	3,959	3920.58	3987.999	IMI
3.2	2018	5	9			IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2018	5	1	1	1	1 IMI
4	2018	5	1,572	1559.759	1589.863	IMI
1	2018	6	406,100	404773.8	406729.9	IMI
2	2018	6	53,202	53015.07	53506.83	IMI
3.1	2018	6	3,953	3921.523	3988.942	IMI
3.2	2018	6	9			IMI
3.4	2018	6	1	1	1	1 IMI
4	2018	6	1,400	1386.527	1416.631	IMI
1	2018	7	406,187	404817.7	406773.8	IMI
2	2018	7	53,384	53022.42	53514.17	IMI
3.1	2018	7	3,995	3953.256	4020.675	IMI
3.2	2018	7	9			IMI
3.4	2018	7	1	1	1	1 IMI
4	2018	7	1,739	1725.048	1755.152	IMI
1	2018	8	406,454	405000.7	406956.8	IMI
2	2018	8	53,327	53066.85	53558.6	IMI
3.1	2018	8	3,993	3959.619	4027.038	IMI
3.2	2018	8	9			IMI
3.4	2018	8	1	1	1	1 IMI
4	2018	8	1,569	1554.048	1584.152	IMI
1	2018	9	406,721	405777.4	407733.5	IMI
2	2018	9	53,673	53096.65	53588.4	IMI
3.1	2018	9	3,981	3957.982	4025.401	IMI
3.2	2018	9	9			IMI
3.4	2018	9	1	1	1	1 IMI
4	2018	9	1,566	1553.301	1583.405	IMI
1	2018	10	407,559	405775.6	407731.7	IMI
2	2018	10	53,418	53211.51	53703.26	IMI
3.1	2018	10	3,984	3951.923	4019.342	IMI
3.2	2018	10	9			IMI
3.4	2018	10	1	1	1	1 IMI
4	2018	10	1,567	1551.176	1581.28	IMI
1	2018	11	407,597	406792.1	408748.1	IMI
2	2018	11	53,734	53217.8	53709.55	IMI

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revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2018	11	3,978	3954.85	4022.269	IMI
3.2	2018	11	9			IMI
3.4	2018	11	1	1	1	IMI
4	2018	11	1,575	1553.628	1583.732	IMI
1	2018	12	408,052	407822.1	409778.2	IMI
2	2018	12	53,434	53319.23	53810.99	IMI
3.1	2018	12	3,955	3942.671	4010.089	IMI
3.2	2018	12	9			IMI
3.4	2018	12	1	1	1	IMI
4	2018	12	1,575	1559.473	1589.577	IMI
1	2019	1	409,143	408165.3	410120.9	IMI
2	2019	1	53,558	53312.47	53804.22	IMI
3.1	2019	1	3,968	3934.688	4002.107	IMI
3.2	2019	1				IMI
3.4	2019	1	1	1	1	IMI
4	2019	1	1,571	1556.115	1586.219	IMI
1	2019	2	409,199	408166.8	410231	IMI
2	2019	2	53,577	53322.08	53832.33	IMI
3.1	2019	2	3,973	3937.848	4009.026	IMI
3.2	2019	2				IMI
3.4	2019	2	1	1	1	IMI
4	2019	2	1,569	1551.06	1586.347	IMI
1	2019	3	408,994	407907	410081.6	IMI
2	2019	3	53,601	53336.95	53865.05	IMI
3.1	2019	3	3,959	3923.265	3994.632	IMI
3.2	2019	3				IMI
3.4	2019	3	1	1	1	IMI
4	2019	3	1,571	1551.377	1591.176	IMI
1	2019	4	408,297	407093.3	409500	IMI
2	2019	4	53,594	53321.36	53866.73	IMI
3.1	2019	4	3,959	3919.196	3998.17	IMI
3.2	2019	4				IMI
3.4	2019	4	1	1	1	IMI
4	2019	4	1,571	1548.961	1592.812	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2019	5	407,867	406523.6	409211.1	IMI
2	2019	5	53,628	53346.5	53908.61	IMI
3.1	2019	5	3,965	3921.263	4008.307	IMI
3.2	2019	5				IMI
3.4	2019	5	1	1	1	IMI
4	2019	5	1,565	1541.386	1588.944	IMI
1	2019	6	407,717	406308.8	409125.1	IMI
2	2019	6	53,636	53346.82	53925.18	IMI
3.1	2019	6	3,960	3915.903	4004.886	IMI
3.2	2019	6				IMI
3.4	2019	6	1	1	1	IMI
4	2019	6	1,564	1538.388	1589.385	IMI
1	2019	7	407,635	406156.8	409112.2	IMI
2	2019	7	53,689	53392.08	53986.24	IMI
3.1	2019	7	3,955	3908.849	4000.629	IMI
3.2	2019	7				IMI
3.4	2019	7	1	1	1	IMI
4	2019	7	1,567	1539.647	1593.864	IMI
1	2019	8	407,679	406112.7	409245.4	IMI
2	2019	8	53,695	53390.04	53999.6	IMI
3.1	2019	8	3,956	3907.151	4004.323	IMI
3.2	2019	8				IMI
3.4	2019	8	1	1	1	IMI
4	2019	8	1,562	1533.589	1590.847	IMI
1	2019	9	408,159	406516.8	409801.6	IMI
2	2019	9	53,782	53469.45	54094.03	IMI
3.1	2019	9	3,954	3904.053	4004.826	IMI
3.2	2019	9				IMI
3.4	2019	9	1	1	1	IMI
4	2019	9	1,561	1530.868	1591.012	IMI
1	2019	10	408,373	406669.7	410076.1	IMI
2	2019	10	53,744	53424.18	54063.43	IMI
3.1	2019	10	3,951	3899.576	4002.876	IMI
3.2	2019	10				IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2019	10	1	1	1	1 IMI
4	2019	10	1,560	1528.805	1591.703	IMI
1	2019	11	408,840	407071.8	410607.2	IMI
2	2019	11	53,826	53499.48	54153.07	IMI
3.1	2019	11	3,951	3898.026	4004.799	IMI
3.2	2019	11				IMI
3.4	2019	11	1	1	1	1 IMI
4	2019	11	1,563	1530.355	1595.891	IMI
1	2019	12	409,735	407901.7	411568.4	IMI
2	2019	12	53,778	53444.48	54112.09	IMI
3.1	2019	12	3,949	3894.299	4004.695	IMI
3.2	2019	12				IMI
3.4	2019	12	1	1	1	1 IMI
4	2019	12	1,562	1527.512	1595.585	IMI
1	2020	1	410,426	408442.3	412408.7	IMI
2	2020	1	53,818	53463.69	54172.7	IMI
3.1	2020	1	3,948	3891.816	4005.051	IMI
3.2	2020	1				IMI
3.4	2020	1	1	1	1	1 IMI
4	2020	1	1,561	1526.196	1596.714	IMI
1	2020	2	410,434	408373.7	412493.6	IMI
2	2020	2	53,838	53474.4	54202.26	IMI
3.1	2020	2	3,951	3892.66	4008.72	IMI
3.2	2020	2				IMI
3.4	2020	2	1	1	1	1 IMI
4	2020	2	1,557	1520.477	1593.359	IMI
1	2020	3	410,415	408277.6	412551.5	IMI
2	2020	3	53,858	53485.36	54231.57	IMI
3.1	2020	3	3,946	3887.498	4004.238	IMI
3.2	2020	3				IMI
3.4	2020	3	1	1	1	1 IMI
4	2020	3	1,557	1518.943	1594.113	IMI
1	2020	4	409,736	407511.2	411960.3	IMI
2	2020	4	53,879	53496.53	54260.67	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2020	4	3,943	3883.459	4002.166	IMI
3.2	2020	4				IMI
3.4	2020	4	1	1	1	IMI
4	2020	4	1,555	1515.961	1593.353	IMI
1	2020	5	409,178	406865	411491.2	IMI
2	2020	5	53,899	53507.91	54289.57	IMI
3.1	2020	5	3,944	3882.914	4004.132	IMI
3.2	2020	5				IMI
3.4	2020	5	1	1	1	IMI
4	2020	5	1,553	1513.307	1592.858	IMI
1	2020	6	409,052	406667.6	411437.1	IMI
2	2020	6	53,919	53519.48	54318.27	IMI
3.1	2020	6	3,941	3879.976	4002.676	IMI
3.2	2020	6				IMI
3.4	2020	6	1	1	1	IMI
4	2020	6	1,552	1511.134	1592.788	IMI
1	2020	7	409,026	406569.4	411482.2	IMI
2	2020	7	53,939	53531.22	54346.79	IMI
3.1	2020	7	3,938	3875.913	4000.026	IMI
3.2	2020	7				IMI
3.4	2020	7	1	1	1	IMI
4	2020	7	1,551	1508.813	1592.516	IMI
1	2020	8	409,042	406511.9	411572.1	IMI
2	2020	8	53,959	53543.14	54375.14	IMI
3.1	2020	8	3,937	3873.681	3999.751	IMI
3.2	2020	8				IMI
3.4	2020	8	1	1	1	IMI
4	2020	8	1,550	1507.284	1592.988	IMI
1	2020	9	409,491	406891.7	412089.9	IMI
2	2020	9	53,979	53555.22	54403.33	IMI
3.1	2020	9	3,936	3871.734	3999.582	IMI
3.2	2020	9				IMI
3.4	2020	9	1	1	1	IMI
4	2020	9	1,549	1504.732	1592.39	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2020	10	409,723	407059.7	412386.2	IMI
2	2020	10	53,999	53567.45	54431.37	IMI
3.1	2020	10	3,933	3868.62	3997.944	IMI
3.2	2020	10				IMI
3.4	2020	10	1	1	1	IMI
4	2020	10	1,548	1503.387	1592.957	IMI
1	2020	11	410,197	407470.5	412924.1	IMI
2	2020	11	54,020	53579.82	54459.27	IMI
3.1	2020	11	3,931	3865.939	3996.884	IMI
3.2	2020	11				IMI
3.4	2020	11	1	1	1	IMI
4	2020	11	1,550	1504.135	1595.577	IMI
1	2020	12	411,076	408286.7	413865.1	IMI
2	2020	12	54,040	53592.32	54487.04	IMI
3.1	2020	12	3,930	3863.553	3996.211	IMI
3.2	2020	12				IMI
3.4	2020	12	1	1	1	IMI
4	2020	12	1,549	1502.531	1595.808	IMI
1	2021	1	411,761	408839.7	414681.6	IMI
2	2021	1	54,060	53604.96	54514.68	IMI
3.1	2021	1	3,928	3860.527	3994.748	IMI
3.2	2021	1				IMI
3.4	2021	1	1	1	1	IMI
4	2021	1	1,547	1498.75	1595.947	IMI
1	2021	2	411,774	408777.3	414771.6	IMI
2	2021	2	54,080	53617.71	54542.19	IMI
3.1	2021	2	3,926	3858.01	3993.75	IMI
3.2	2021	2				IMI
3.4	2021	2	1	1	1	IMI
4	2021	2	1,546	1495.891	1595.975	IMI
1	2021	3	411,752	408679.8	414824.4	IMI
2	2021	3	54,100	53630.58	54569.59	IMI
3.1	2021	3	3,924	3855.259	3992.582	IMI
3.2	2021	3				IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.4	2021	3	1	1	1	1 IMI
4	2021	3	1,546	1494.564	1597.454	IMI
1	2021	4	411,066	407909.5	414222.2	IMI
2	2021	4	54,120	53643.56	54596.88	IMI
3.1	2021	4	3,921	3851.793	3990.672	IMI
3.2	2021	4				IMI
3.4	2021	4	1	1	1	1 IMI
4	2021	4	1,545	1492.398	1598.018	IMI
1	2021	5	410,507	407264	413749.2	IMI
2	2021	5	54,140	53656.65	54624.06	IMI
3.1	2021	5	3,920	3849.651	3990.51	IMI
3.2	2021	5				IMI
3.4	2021	5	1	1	1	1 IMI
4	2021	5	1,543	1488.685	1596.968	IMI
1	2021	6	410,380	407065.5	413695.2	IMI
2	2021	6	54,160	53669.84	54651.14	IMI
3.1	2021	6	3,919	3847.301	3989.808	IMI
3.2	2021	6				IMI
3.4	2021	6	1	1	1	1 IMI
4	2021	6	1,542	1486.322	1597.202	IMI
1	2021	7	410,350	406963.2	413736.6	IMI
2	2021	7	54,181	53683.13	54678.13	IMI
3.1	2021	7	3,916	3844.189	3988.226	IMI
3.2	2021	7				IMI
3.4	2021	7	1	1	1	1 IMI
4	2021	7	1,542	1485.216	1598.635	IMI
1	2021	8	410,362	406901.6	413823	IMI
2	2021	8	54,201	53696.5	54705.02	IMI
3.1	2021	8	3,914	3841.622	3987.35	IMI
3.2	2021	8				IMI
3.4	2021	8	1	1	1	1 IMI
4	2021	8	1,540	1481.945	1597.847	IMI
1	2021	9	410,809	407278.3	414340.2	IMI
2	2021	9	54,221	53709.97	54731.82	IMI

Indiana Michigan Power Company - Indiana
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2021	9	3,913	3839.314	3986.726	IMI
3.2	2021	9				IMI
3.4	2021	9	1	1	1	IMI
4	2021	9	1,539	1479.665	1597.998	IMI
1	2021	10	411,039	407442.1	414635.9	IMI
2	2021	10	54,241	53723.53	54758.54	IMI
3.1	2021	10	3,911	3836.617	3985.584	IMI
3.2	2021	10				IMI
3.4	2021	10	1	1	1	IMI
4	2021	10	1,538	1477.585	1598.3	IMI
1	2021	11	411,510	407847.7	415172.4	IMI
2	2021	11	54,261	53737.16	54785.17	IMI
3.1	2021	11	3,909	3833.869	3984.402	IMI
3.2	2021	11				IMI
3.4	2021	11	1	1	1	IMI
4	2021	11	1,538	1476.581	1599.632	IMI
1	2021	12	412,386	408659.1	416112.7	IMI
2	2021	12	54,281	53750.88	54811.73	IMI
3.1	2021	12	3,907	3831.387	3983.524	IMI
3.2	2021	12				IMI
3.4	2021	12	1	1	1	IMI
4	2021	12	1,537	1474.282	1599.626	IMI

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	CUST	time	res1	res2	res3	res4	res5	res6	com1	com2
1	2008		1	109268	8-Jan	0	0	0	0	0	0	0
2	2008		1	16965	8-Jan	0	0	0	0	0	0	0
3.1	2008		1	1017	8-Jan	0	0	0	0	0	0	0
3.2	2008		1	9	8-Jan	0	0	0	0	0	0	0
4	2008		1	349	8-Jan	0	0	0	0	0	0	0
1	2008		2	109458	8-Feb	0	0	0	0	0	0	0
2	2008		2	17023	8-Feb	0	0	0	0	0	0	0
3.1	2008		2	1018	8-Feb	0	0	0	0	0	0	0
3.2	2008		2	9	8-Feb	0	0	0	0	0	0	0
4	2008		2	351	8-Feb	0	0	0	0	0	0	0
1	2008		3	109390	8-Mar	0	0	0	0	0	0	0
2	2008		3	16977	8-Mar	0	0	0	0	0	0	0
3.1	2008		3	1012	8-Mar	0	0	0	0	0	0	0
3.2	2008		3	9	8-Mar	0	0	0	0	0	0	0
4	2008		3	350	8-Mar	0	0	0	0	0	0	0
1	2008		4	109143	8-Apr	0	0	0	0	0	0	0
2	2008		4	17020	8-Apr	0	0	0	0	0	0	0
3.1	2008		4	1014	8-Apr	0	0	0	0	0	0	0
3.2	2008		4	9	8-Apr	0	0	0	0	0	0	0
4	2008		4	349	8-Apr	0	0	0	0	0	0	0
1	2008		5	109112	8-May	0	0	0	0	0	0	0
2	2008		5	17016	8-May	0	0	0	0	0	0	0
3.1	2008		5	1016	8-May	0	0	0	0	0	0	0
3.2	2008		5	9	8-May	0	0	0	0	0	0	0
4	2008		5	348	8-May	0	0	0	0	0	0	0
1	2008		6	109096	8-Jun	0	0	0	0	0	0	0
2	2008		6	17082	8-Jun	0	0	0	0	0	0	0
3.1	2008		6	1010	8-Jun	0	0	0	0	0	0	0
3.2	2008		6	9	8-Jun	0	0	0	0	0	0	0
4	2008		6	348	8-Jun	0	0	0	0	0	0	0
1	2008		7	109198	8-Jul	0	0	0	0	0	0	0
2	2008		7	17101	8-Jul	0	0	0	0	0	0	0
3.1	2008		7	1010	8-Jul	0	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	res4	res5	res6	com1	com2
3.2	2008	7	7	9	8-Jul	0	0	0	0	0	0	0
4	2008	7	348	348	8-Jul	0	0	0	0	0	0	0
1	2008	8	109218	109218	8-Aug	0	0	0	0	0	0	0
2	2008	8	17077	17077	8-Aug	0	0	0	0	0	0	0
3.1	2008	8	1001	1001	8-Aug	0	0	0	0	0	0	0
3.2	2008	8	9	9	8-Aug	0	0	0	0	0	0	0
4	2008	8	347	347	8-Aug	0	0	0	0	0	0	0
1	2008	9	109231	109231	8-Sep	0	0	0	0	0	0	0
2	2008	9	17176	17176	8-Sep	0	0	0	0	0	0	0
3.1	2008	9	1006	1006	8-Sep	0	0	0	0	0	0	0
3.2	2008	9	9	9	8-Sep	0	0	0	0	0	0	0
4	2008	9	346	346	8-Sep	0	0	0	0	0	0	0
1	2008	10	109267	109267	8-Oct	0	0	0	0	0	0	0
2	2008	10	17154	17154	8-Oct	0	0	0	0	0	0	0
3.1	2008	10	994	994	8-Oct	0	0	0	0	0	0	0
3.2	2008	10	9	9	8-Oct	0	0	0	0	0	0	0
4	2008	10	345	345	8-Oct	0	0	0	0	0	0	0
1	2008	11	109005	109005	8-Nov	0	0	0	0	0	0	0
2	2008	11	17038	17038	8-Nov	0	0	0	0	0	0	0
3.1	2008	11	990	990	8-Nov	0	0	0	0	0	0	0
3.2	2008	11	9	9	8-Nov	0	0	0	0	0	0	0
4	2008	11	345	345	8-Nov	0	0	0	0	0	0	0
1	2008	12	109312	109312	8-Dec	0	0	0	0	0	0	0
2	2008	12	17076	17076	8-Dec	0	0	0	0	0	0	0
3.1	2008	12	1005	1005	8-Dec	0	0	0	0	0	0	0
3.2	2008	12	9	9	8-Dec	0	0	0	0	0	0	0
4	2008	12	341	341	8-Dec	0	0	0	0	0	0	0
1	2009	1	109390	109390	9-Jan	0	0	0	0	0	0	0
2	2009	1	17085	17085	9-Jan	0	0	0	0	0	0	0
3.1	2009	1	1010	1010	9-Jan	0	0	0	0	0	0	0
3.2	2009	1	9	9	9-Jan	0	0	0	0	0	0	0
4	2009	1	347	347	9-Jan	0	0	0	0	0	0	0
1	2009	2	108999	108999	9-Feb	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	CUST	time	res1	res2	res3	res4	res5	res6	com1	com2
2	2009		2	17043	9-Feb	0	0	0	0	0	0	0
3.1	2009		2	1009	9-Feb	0	0	0	0	0	0	0
3.2	2009		2	9	9-Feb	0	0	0	0	0	0	0
4	2009		2	343	9-Feb	0	0	0	0	0	0	0
1	2009		3	110263	9-Mar	0	1	0	0	0	0	0
2	2009		3	17264	9-Mar	0	1	0	0	0	0	0
3.1	2009		3	1001	9-Mar	0	1	0	0	0	0	0
3.2	2009		3	9	9-Mar	0	1	0	0	0	0	0
4	2009		3	345	9-Mar	0	1	0	0	0	0	0
1	2009		4	109396	9-Apr	0	0	0	0	0	0	0
2	2009		4	17089	9-Apr	0	0	0	0	0	0	0
3.1	2009		4	998	9-Apr	0	0	0	0	0	0	0
3.2	2009		4	9	9-Apr	0	0	0	0	0	0	0
4	2009		4	343	9-Apr	0	0	0	0	0	0	0
1	2009		5	109271	9-May	0	0	0	0	0	0	0
2	2009		5	17088	9-May	0	0	0	0	0	0	0
3.1	2009		5	989	9-May	0	0	0	0	0	0	0
3.2	2009		5	9	9-May	0	0	0	0	0	0	0
4	2009		5	347	9-May	0	0	0	0	0	0	0
1	2009		6	109196	9-Jun	0	0	0	0	0	0	0
2	2009		6	17172	9-Jun	0	0	0	0	0	0	0
3.1	2009		6	996	9-Jun	0	0	0	0	0	0	0
3.2	2009		6	9	9-Jun	0	0	0	0	0	0	0
4	2009		6	346	9-Jun	0	0	0	0	0	0	0
1	2009		7	109210	9-Jul	0	0	0	0	0	0	0
2	2009		7	17190	9-Jul	0	0	0	0	0	0	0
3.1	2009		7	1000	9-Jul	0	0	0	0	0	0	0
3.2	2009		7	9	9-Jul	0	0	0	0	0	0	0
4	2009		7	346	9-Jul	0	0	0	0	0	0	0
1	2009		8	109190	9-Aug	0	0	0	0	0	0	0
2	2009		8	17195	9-Aug	0	0	0	0	0	0	0
3.1	2009		8	993	9-Aug	0	0	0	0	0	0	0
3.2	2009		8	9	9-Aug	0	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	CUST	time	res1	res2	res3	res4	res5	res6	com1	com2
3.2	2011	4	4	9	11-Apr	0	0	0	0	0	0	0
4	2011	4	340	340	11-Apr	0	0	0	0	0	0	0
1	2011	5	109140	109140	11-May	0	0	0	0	0	0	0
2	2011	5	17340	17340	11-May	0	0	0	0	0	0	0
3.1	2011	5	977	977	11-May	0	0	0	0	0	0	0
3.2	2011	5	9	9	11-May	0	0	0	0	0	0	0
4	2011	5	340	340	11-May	0	0	0	0	0	0	0
1	2011	6	109123	109123	11-Jun	0	0	0	0	0	0	0
2	2011	6	17379	17379	11-Jun	0	0	0	0	0	0	0
3.1	2011	6	970	970	11-Jun	0	0	0	0	0	0	0
3.2	2011	6	9	9	11-Jun	0	0	0	0	0	0	0
4	2011	6	339	339	11-Jun	0	0	0	0	0	0	0
1	2011	7	108972	108972	11-Jul	0	0	0	0	0	0	0
2	2011	7	17310	17310	11-Jul	0	0	0	0	0	0	0
3.1	2011	7	970	970	11-Jul	0	0	0	0	0	0	0
3.2	2011	7	9	9	11-Jul	0	0	0	0	0	0	0
4	2011	7	339	339	11-Jul	0	0	0	0	0	0	0
1	2011	8	109114	109114	11-Aug	0	0	0	0	0	0	0
2	2011	8	17509	17509	11-Aug	0	0	0	0	0	0	0
3.1	2011	8	977	977	11-Aug	0	0	0	0	0	0	0
3.2	2011	8	9	9	11-Aug	0	0	0	0	0	0	0
4	2011	8	341	341	11-Aug	0	0	0	0	0	0	0
1	2011	9	108938	108938	11-Sep	0	0	0	0	0	0	0
2	2011	9	17387	17387	11-Sep	0	0	0	0	0	0	0
3.1	2011	9	979	979	11-Sep	0	0	0	0	0	0	0
3.2	2011	9	9	9	11-Sep	0	0	0	0	0	0	0
4	2011	9	339	339	11-Sep	0	0	0	0	0	0	0
1	2011	10	108876	108876	11-Oct	0	0	0	0	0	0	0
2	2011	10	17368	17368	11-Oct	0	0	0	0	0	0	0
3.1	2011	10	976	976	11-Oct	0	0	0	0	0	0	0
3.2	2011	10	9	9	11-Oct	0	0	0	0	0	0	0
4	2011	10	339	339	11-Oct	0	0	0	0	0	0	0
1	2011	11	109025	109025	11-Nov	0	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	com3	com4	com4t	com5	com6	com7	ind1	ind2	ind3	ind3slope
4	2015	2	0	0	0	0	0	0	0	0	0	0
1	2015	3	0	0	0	0	0	0	0	0	0	0
2	2015	3	0	0	1	20148	0	0	0	0	0	0
3.1	2015	3	0	0	0	0	0	0	0	0	1	20148
3.2	2015	3	0	0	0	0	0	0	0	0	0	0
4	2015	3	0	0	0	0	0	0	0	0	0	0
1	2015	4	0	0	0	0	0	0	0	0	0	0
2	2015	4	0	0	1	20179	0	0	0	0	0	0
3.1	2015	4	0	0	0	0	0	0	0	0	1	20179
3.2	2015	4	0	0	0	0	0	0	0	0	0	0
4	2015	4	0	0	0	0	0	0	0	0	0	0
1	2015	5	0	0	0	0	0	0	0	0	0	0
2	2015	5	0	0	1	20209	0	0	0	0	0	0
3.1	2015	5	0	0	0	0	0	0	0	0	1	20209
3.2	2015	5	0	0	0	0	0	0	0	0	0	0
4	2015	5	0	0	0	0	0	0	0	0	0	0
1	2015	6	0	0	0	0	0	0	0	0	0	0
2	2015	6	0	0	1	20240	0	0	0	0	0	0
3.1	2015	6	0	0	0	0	0	0	0	0	1	20240
3.2	2015	6	0	0	0	0	0	0	0	0	0	0
4	2015	6	0	0	0	0	0	0	0	0	0	0
1	2015	7	0	0	0	0	0	0	0	0	0	0
2	2015	7	0	0	1	20270	0	0	0	0	0	0
3.1	2015	7	0	0	0	0	0	0	0	0	1	20270
3.2	2015	7	0	0	0	0	0	0	0	0	0	0
4	2015	7	0	0	0	0	0	0	0	0	0	0
1	2015	8	0	0	0	0	0	0	0	0	0	0
2	2015	8	0	0	1	20301	0	0	0	0	0	0
3.1	2015	8	0	0	0	0	0	0	0	0	1	20301
3.2	2015	8	0	0	0	0	0	0	0	0	0	0
4	2015	8	0	0	0	0	0	0	0	0	0	0
1	2015	9	0	0	0	0	0	0	0	0	0	0
2	2015	9	0	0	1	20332	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	com3	com4	com4t	com5	com6	com7	ind1	ind2	ind3	ind3slope
4	2017	11	0	0	0	0	0	0	0	0	0	0
1	2017	12	0	0	0	0	0	0	0	0	0	0
2	2017	12	0	1	21154	0	0	0	0	0	0	0
3.1	2017	12	0	0	0	0	0	0	0	0	1	21154
3.2	2017	12	0	0	0	0	0	0	0	0	0	0
4	2017	12	0	0	0	0	0	0	0	0	0	0
1	2018	1	0	0	0	0	0	0	0	0	0	0
2	2018	1	0	1	21185	0	0	0	0	0	0	0
3.1	2018	1	0	0	0	0	0	0	0	0	1	21185
3.2	2018	1	0	0	0	0	0	0	0	0	0	0
4	2018	1	0	0	0	0	0	0	0	0	0	0
1	2018	2	0	0	0	0	0	0	0	0	0	0
2	2018	2	0	1	21216	0	0	0	0	0	0	0
3.1	2018	2	0	0	0	0	0	0	0	0	1	21216
3.2	2018	2	0	0	0	0	0	0	0	0	0	0
4	2018	2	0	0	0	0	0	0	0	0	0	0
1	2018	3	0	0	0	0	0	0	0	0	0	0
2	2018	3	0	1	21244	0	0	0	0	0	0	0
3.1	2018	3	0	0	0	0	0	0	0	0	1	21244
3.2	2018	3	0	0	0	0	0	0	0	0	0	0
4	2018	3	0	0	0	0	0	0	0	0	0	0
1	2018	4	0	0	0	0	0	0	0	0	0	0
2	2018	4	0	1	21275	0	0	1	0	0	0	0
3.1	2018	4	0	0	0	0	0	0	0	0	1	21275
3.2	2018	4	0	0	0	0	0	0	0	0	0	0
4	2018	4	0	0	0	0	0	0	0	0	0	0
1	2018	5	0	0	0	0	0	0	0	0	0	0
2	2018	5	0	1	21305	0	0	0	1	0	0	0
3.1	2018	5	0	0	0	0	0	0	0	0	1	21305
3.2	2018	5	0	0	0	0	0	0	0	0	0	0
4	2018	5	0	0	0	0	0	0	0	0	0	0
1	2018	6	0	0	0	0	0	0	0	0	0	0
2	2018	6	0	1	21336	0	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	com3	com4	com4t	com5	com6	com7	ind1	ind2	ind3	ind3slope
4	2020	8	0	0	0	0	0	0	0	0	0	0
1	2020	9	0	0	0	0	0	0	0	0	0	0
2	2020	9	0	1	22159	0	0	0	0	0	0	0
3.1	2020	9	0	0	0	0	0	0	0	0	1	22159
3.2	2020	9	0	0	0	0	0	0	0	0	0	0
4	2020	9	0	0	0	0	0	0	0	0	0	0
1	2020	10	0	0	0	0	0	0	0	0	0	0
2	2020	10	0	1	22189	0	0	0	0	0	0	0
3.1	2020	10	0	0	0	0	0	0	0	0	1	22189
3.2	2020	10	0	0	0	0	0	0	0	0	0	0
4	2020	10	0	0	0	0	0	0	0	0	0	0
1	2020	11	0	0	0	0	0	0	0	0	0	0
2	2020	11	0	1	22220	0	0	0	0	0	0	0
3.1	2020	11	0	0	0	0	0	0	0	0	1	22220
3.2	2020	11	0	0	0	0	0	0	0	0	0	0
4	2020	11	0	0	0	0	0	0	0	0	0	0
1	2020	12	0	0	0	0	0	0	0	0	0	0
2	2020	12	0	1	22250	0	0	0	0	0	0	0
3.1	2020	12	0	0	0	0	0	0	0	0	1	22250
3.2	2020	12	0	0	0	0	0	0	0	0	0	0
4	2020	12	0	0	0	0	0	0	0	0	0	0
1	2021	1	0	0	0	0	0	0	0	0	0	0
2	2021	1	0	1	22281	0	0	0	0	0	0	0
3.1	2021	1	0	0	0	0	0	0	0	0	1	22281
3.2	2021	1	0	0	0	0	0	0	0	0	0	0
4	2021	1	0	0	0	0	0	0	0	0	0	0
1	2021	2	0	0	0	0	0	0	0	0	0	0
2	2021	2	0	1	22312	0	0	0	0	0	0	0
3.1	2021	2	0	0	0	0	0	0	0	0	1	22312
3.2	2021	2	0	0	0	0	0	0	0	0	0	0
4	2021	2	0	0	0	0	0	0	0	0	0	0
1	2021	3	0	0	0	0	0	0	0	0	0	0
2	2021	3	0	1	22340	0	0	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2008	1	0
2	2008	1	0
3.1	2008	1	0
3.2	2008	1	0
4	2008	1	0
1	2008	2	0
2	2008	2	0
3.1	2008	2	0
3.2	2008	2	0
4	2008	2	0
1	2008	3	0
2	2008	3	0
3.1	2008	3	0
3.2	2008	3	0
4	2008	3	0
1	2008	4	0
2	2008	4	0
3.1	2008	4	0
3.2	2008	4	0
4	2008	4	0
1	2008	5	0
2	2008	5	0
3.1	2008	5	0
3.2	2008	5	0
4	2008	5	0
1	2008	6	0
2	2008	6	0
3.1	2008	6	0
3.2	2008	6	0
4	2008	6	0
1	2008	7	0
2	2008	7	0
3.1	2008	7	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.2	2008	7	0
4	2008	7	0
1	2008	8	0
2	2008	8	0
3.1	2008	8	0
3.2	2008	8	0
4	2008	8	0
1	2008	9	0
2	2008	9	0
3.1	2008	9	0
3.2	2008	9	0
4	2008	9	0
1	2008	10	0
2	2008	10	0
3.1	2008	10	0
3.2	2008	10	0
4	2008	10	0
1	2008	11	0
2	2008	11	0
3.1	2008	11	0
3.2	2008	11	0
4	2008	11	0
1	2008	12	0
2	2008	12	0
3.1	2008	12	0
3.2	2008	12	0
4	2008	12	0
1	2009	1	0
2	2009	1	0
3.1	2009	1	0
3.2	2009	1	0
4	2009	1	0
1	2009	2	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
2	2009	2	0
3.1	2009	2	0
3.2	2009	2	0
4	2009	2	0
1	2009	3	0
2	2009	3	0
3.1	2009	3	0
3.2	2009	3	0
4	2009	3	0
1	2009	4	0
2	2009	4	0
3.1	2009	4	0
3.2	2009	4	0
4	2009	4	0
1	2009	5	0
2	2009	5	0
3.1	2009	5	0
3.2	2009	5	0
4	2009	5	0
1	2009	6	0
2	2009	6	0
3.1	2009	6	0
3.2	2009	6	0
4	2009	6	0
1	2009	7	0
2	2009	7	0
3.1	2009	7	0
3.2	2009	7	0
4	2009	7	0
1	2009	8	0
2	2009	8	0
3.1	2009	8	0
3.2	2009	8	0

Indiana Michigan Power Company - Michigan
 Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
4	2009	8	0
1	2009	9	0
2	2009	9	0
3.1	2009	9	0
3.2	2009	9	0
4	2009	9	0
1	2009	10	0
2	2009	10	0
3.1	2009	10	0
3.2	2009	10	0
4	2009	10	0
1	2009	11	0
2	2009	11	0
3.1	2009	11	0
3.2	2009	11	0
4	2009	11	0
1	2009	12	0
2	2009	12	0
3.1	2009	12	0
3.2	2009	12	0
4	2009	12	0
1	2010	1	0
2	2010	1	0
3.1	2010	1	0
3.2	2010	1	0
4	2010	1	0
1	2010	2	0
2	2010	2	0
3.1	2010	2	0
3.2	2010	2	0
4	2010	2	0
1	2010	3	0
2	2010	3	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.1	2010	3	0
3.2	2010	3	0
4	2010	3	0
1	2010	4	0
2	2010	4	0
3.1	2010	4	0
3.2	2010	4	0
4	2010	4	0
1	2010	5	0
2	2010	5	0
3.1	2010	5	0
3.2	2010	5	0
4	2010	5	0
1	2010	6	0
2	2010	6	0
3.1	2010	6	0
3.2	2010	6	0
4	2010	6	0
1	2010	7	0
2	2010	7	0
3.1	2010	7	0
3.2	2010	7	0
4	2010	7	0
1	2010	8	0
2	2010	8	0
3.1	2010	8	0
3.2	2010	8	0
4	2010	8	0
1	2010	9	0
2	2010	9	0
3.1	2010	9	0
3.2	2010	9	0
4	2010	9	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2010	10	0
2	2010	10	0
3.1	2010	10	0
3.2	2010	10	0
4	2010	10	0
1	2010	11	0
2	2010	11	0
3.1	2010	11	0
3.2	2010	11	0
4	2010	11	0
1	2010	12	0
2	2010	12	0
3.1	2010	12	0
3.2	2010	12	0
4	2010	12	0
1	2011	1	0
2	2011	1	0
3.1	2011	1	0
3.2	2011	1	0
4	2011	1	0
1	2011	2	0
2	2011	2	0
3.1	2011	2	0
3.2	2011	2	0
4	2011	2	0
1	2011	3	0
2	2011	3	0
3.1	2011	3	0
3.2	2011	3	0
4	2011	3	0
1	2011	4	0
2	2011	4	0
3.1	2011	4	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.2	2011	4	0
4	2011	4	0
1	2011	5	0
2	2011	5	0
3.1	2011	5	0
3.2	2011	5	0
4	2011	5	0
1	2011	6	0
2	2011	6	0
3.1	2011	6	0
3.2	2011	6	0
4	2011	6	0
1	2011	7	0
2	2011	7	0
3.1	2011	7	0
3.2	2011	7	0
4	2011	7	0
1	2011	8	0
2	2011	8	0
3.1	2011	8	0
3.2	2011	8	0
4	2011	8	0
1	2011	9	0
2	2011	9	0
3.1	2011	9	0
3.2	2011	9	0
4	2011	9	0
1	2011	10	0
2	2011	10	0
3.1	2011	10	0
3.2	2011	10	0
4	2011	10	0
1	2011	11	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
2	2011	11	0
3.1	2011	11	0
3.2	2011	11	0
4	2011	11	0
1	2011	12	0
2	2011	12	0
3.1	2011	12	0
3.2	2011	12	0
4	2011	12	0
1	2012	1	0
2	2012	1	0
3.1	2012	1	0
3.2	2012	1	0
4	2012	1	0
1	2012	2	0
2	2012	2	0
3.1	2012	2	0
3.2	2012	2	0
4	2012	2	0
1	2012	3	0
2	2012	3	0
3.1	2012	3	0
3.2	2012	3	0
4	2012	3	0
1	2012	4	0
2	2012	4	0
3.1	2012	4	0
3.2	2012	4	0
4	2012	4	0
1	2012	5	0
2	2012	5	0
3.1	2012	5	0
3.2	2012	5	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
4	2012	5	0
1	2012	6	0
2	2012	6	0
3.1	2012	6	0
3.2	2012	6	0
4	2012	6	0
1	2012	7	0
2	2012	7	0
3.1	2012	7	0
3.2	2012	7	0
4	2012	7	0
1	2012	8	0
2	2012	8	0
3.1	2012	8	0
3.2	2012	8	0
4	2012	8	0
1	2012	9	0
2	2012	9	0
3.1	2012	9	0
3.2	2012	9	0
4	2012	9	0
1	2012	10	0
2	2012	10	0
3.1	2012	10	0
3.2	2012	10	0
4	2012	10	0
1	2012	11	0
2	2012	11	0
3.1	2012	11	0
3.2	2012	11	0
4	2012	11	0
1	2012	12	0
2	2012	12	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.1	2012	12	0
3.2	2012	12	0
4	2012	12	0
1	2013	1	0
2	2013	1	0
3.1	2013	1	0
3.2	2013	1	0
4	2013	1	0
1	2013	2	0
2	2013	2	0
3.1	2013	2	0
3.2	2013	2	0
4	2013	2	0
1	2013	3	0
2	2013	3	0
3.1	2013	3	0
3.2	2013	3	0
4	2013	3	0
1	2013	4	0
2	2013	4	0
3.1	2013	4	0
3.2	2013	4	0
4	2013	4	0
1	2013	5	0
2	2013	5	0
3.1	2013	5	0
3.2	2013	5	0
4	2013	5	0
1	2013	6	0
2	2013	6	0
3.1	2013	6	0
3.2	2013	6	0
4	2013	6	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2013	7	0
2	2013	7	0
3.1	2013	7	0
3.2	2013	7	0
4	2013	7	0
1	2013	8	0
2	2013	8	0
3.1	2013	8	0
3.2	2013	8	0
4	2013	8	0
1	2013	9	0
2	2013	9	0
3.1	2013	9	0
3.2	2013	9	0
4	2013	9	0
1	2013	10	0
2	2013	10	0
3.1	2013	10	0
3.2	2013	10	0
4	2013	10	0
1	2013	11	0
2	2013	11	0
3.1	2013	11	0
3.2	2013	11	0
4	2013	11	0
1	2013	12	0
2	2013	12	0
3.1	2013	12	0
3.2	2013	12	0
4	2013	12	0
1	2014	1	0
2	2014	1	0
3.1	2014	1	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.2	2014	1	0
4	2014	1	0
1	2014	2	0
2	2014	2	0
3.1	2014	2	0
3.2	2014	2	0
4	2014	2	0
1	2014	3	0
2	2014	3	0
3.1	2014	3	0
3.2	2014	3	0
4	2014	3	0
1	2014	4	0
2	2014	4	0
3.1	2014	4	0
3.2	2014	4	0
4	2014	4	0
1	2014	5	0
2	2014	5	0
3.1	2014	5	0
3.2	2014	5	0
4	2014	5	0
1	2014	6	0
2	2014	6	0
3.1	2014	6	0
3.2	2014	6	0
4	2014	6	0
1	2014	7	0
2	2014	7	0
3.1	2014	7	0
3.2	2014	7	0
4	2014	7	0
1	2014	8	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
2	2014	8	0
3.1	2014	8	0
3.2	2014	8	0
4	2014	8	0
1	2014	9	0
2	2014	9	0
3.1	2014	9	0
3.2	2014	9	0
4	2014	9	0
1	2014	10	0
2	2014	10	0
3.1	2014	10	0
3.2	2014	10	0
4	2014	10	0
1	2014	11	0
2	2014	11	0
3.1	2014	11	0
3.2	2014	11	0
4	2014	11	0
1	2014	12	0
2	2014	12	0
3.1	2014	12	0
3.2	2014	12	0
4	2014	12	0
1	2015	1	0
2	2015	1	0
3.1	2015	1	0
3.2	2015	1	0
4	2015	1	0
1	2015	2	0
2	2015	2	0
3.1	2015	2	0
3.2	2015	2	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
4	2015	2	0
1	2015	3	0
2	2015	3	0
3.1	2015	3	0
3.2	2015	3	0
4	2015	3	0
1	2015	4	0
2	2015	4	0
3.1	2015	4	0
3.2	2015	4	0
4	2015	4	0
1	2015	5	0
2	2015	5	0
3.1	2015	5	0
3.2	2015	5	0
4	2015	5	0
1	2015	6	0
2	2015	6	0
3.1	2015	6	0
3.2	2015	6	0
4	2015	6	0
1	2015	7	0
2	2015	7	0
3.1	2015	7	0
3.2	2015	7	0
4	2015	7	0
1	2015	8	0
2	2015	8	0
3.1	2015	8	0
3.2	2015	8	0
4	2015	8	0
1	2015	9	0
2	2015	9	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.1	2015	9	0
3.2	2015	9	0
4	2015	9	0
1	2015	10	0
2	2015	10	0
3.1	2015	10	0
3.2	2015	10	0
4	2015	10	0
1	2015	11	0
2	2015	11	0
3.1	2015	11	0
3.2	2015	11	0
4	2015	11	0
1	2015	12	0
2	2015	12	0
3.1	2015	12	0
3.2	2015	12	0
4	2015	12	0
1	2016	1	0
2	2016	1	0
3.1	2016	1	0
3.2	2016	1	0
4	2016	1	0
1	2016	2	0
2	2016	2	0
3.1	2016	2	0
3.2	2016	2	0
4	2016	2	0
1	2016	3	0
2	2016	3	0
3.1	2016	3	0
3.2	2016	3	0
4	2016	3	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2016	4	0
2	2016	4	0
3.1	2016	4	0
3.2	2016	4	0
4	2016	4	0
1	2016	5	0
2	2016	5	0
3.1	2016	5	0
3.2	2016	5	0
4	2016	5	0
1	2016	6	0
2	2016	6	0
3.1	2016	6	0
3.2	2016	6	0
4	2016	6	0
1	2016	7	0
2	2016	7	0
3.1	2016	7	0
3.2	2016	7	0
4	2016	7	0
1	2016	8	0
2	2016	8	0
3.1	2016	8	0
3.2	2016	8	0
4	2016	8	0
1	2016	9	0
2	2016	9	0
3.1	2016	9	0
3.2	2016	9	0
4	2016	9	0
1	2016	10	0
2	2016	10	0
3.1	2016	10	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.2	2016	10	0
4	2016	10	0
1	2016	11	0
2	2016	11	0
3.1	2016	11	0
3.2	2016	11	0
4	2016	11	0
1	2016	12	0
2	2016	12	0
3.1	2016	12	0
3.2	2016	12	0
4	2016	12	0
1	2017	1	0
2	2017	1	0
3.1	2017	1	0
3.2	2017	1	0
4	2017	1	0
1	2017	2	0
2	2017	2	0
3.1	2017	2	0
3.2	2017	2	0
4	2017	2	0
1	2017	3	0
2	2017	3	0
3.1	2017	3	0
3.2	2017	3	0
4	2017	3	0
1	2017	4	0
2	2017	4	0
3.1	2017	4	0
3.2	2017	4	0
4	2017	4	0
1	2017	5	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
2	2017	5	0
3.1	2017	5	0
3.2	2017	5	0
4	2017	5	0
1	2017	6	0
2	2017	6	0
3.1	2017	6	0
3.2	2017	6	0
4	2017	6	0
1	2017	7	0
2	2017	7	0
3.1	2017	7	0
3.2	2017	7	0
4	2017	7	0
1	2017	8	0
2	2017	8	0
3.1	2017	8	0
3.2	2017	8	0
4	2017	8	0
1	2017	9	0
2	2017	9	0
3.1	2017	9	0
3.2	2017	9	0
4	2017	9	0
1	2017	10	0
2	2017	10	0
3.1	2017	10	0
3.2	2017	10	0
4	2017	10	0
1	2017	11	0
2	2017	11	0
3.1	2017	11	0
3.2	2017	11	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
4	2017	11	0
1	2017	12	0
2	2017	12	0
3.1	2017	12	0
3.2	2017	12	0
4	2017	12	0
1	2018	1	0
2	2018	1	0
3.1	2018	1	0
3.2	2018	1	0
4	2018	1	0
1	2018	2	0
2	2018	2	0
3.1	2018	2	0
3.2	2018	2	0
4	2018	2	0
1	2018	3	0
2	2018	3	0
3.1	2018	3	0
3.2	2018	3	0
4	2018	3	0
1	2018	4	0
2	2018	4	0
3.1	2018	4	0
3.2	2018	4	0
4	2018	4	0
1	2018	5	0
2	2018	5	0
3.1	2018	5	0
3.2	2018	5	0
4	2018	5	1
1	2018	6	0
2	2018	6	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.1	2018	6	0
3.2	2018	6	0
4	2018	6	0
1	2018	7	0
2	2018	7	0
3.1	2018	7	0
3.2	2018	7	0
4	2018	7	0
1	2018	8	0
2	2018	8	0
3.1	2018	8	0
3.2	2018	8	0
4	2018	8	0
1	2018	9	0
2	2018	9	0
3.1	2018	9	0
3.2	2018	9	0
4	2018	9	0
1	2018	10	0
2	2018	10	0
3.1	2018	10	0
3.2	2018	10	0
4	2018	10	0
1	2018	11	0
2	2018	11	0
3.1	2018	11	0
3.2	2018	11	0
4	2018	11	0
1	2018	12	0
2	2018	12	0
3.1	2018	12	0
3.2	2018	12	0
4	2018	12	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2019	1	0
2	2019	1	0
3.1	2019	1	0
3.2	2019	1	0
4	2019	1	0
1	2019	2	0
2	2019	2	0
3.1	2019	2	0
3.2	2019	2	0
4	2019	2	0
1	2019	3	0
2	2019	3	0
3.1	2019	3	0
3.2	2019	3	0
4	2019	3	0
1	2019	4	0
2	2019	4	0
3.1	2019	4	0
3.2	2019	4	0
4	2019	4	0
1	2019	5	0
2	2019	5	0
3.1	2019	5	0
3.2	2019	5	0
4	2019	5	0
1	2019	6	0
2	2019	6	0
3.1	2019	6	0
3.2	2019	6	0
4	2019	6	0
1	2019	7	0
2	2019	7	0
3.1	2019	7	0

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Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.2	2019	7	0
4	2019	7	0
1	2019	8	0
2	2019	8	0
3.1	2019	8	0
3.2	2019	8	0
4	2019	8	0
1	2019	9	0
2	2019	9	0
3.1	2019	9	0
3.2	2019	9	0
4	2019	9	0
1	2019	10	0
2	2019	10	0
3.1	2019	10	0
3.2	2019	10	0
4	2019	10	0
1	2019	11	0
2	2019	11	0
3.1	2019	11	0
3.2	2019	11	0
4	2019	11	0
1	2019	12	0
2	2019	12	0
3.1	2019	12	0
3.2	2019	12	0
4	2019	12	0
1	2020	1	0
2	2020	1	0
3.1	2020	1	0
3.2	2020	1	0
4	2020	1	0
1	2020	2	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
2	2020	2	0
3.1	2020	2	0
3.2	2020	2	0
4	2020	2	0
1	2020	3	0
2	2020	3	0
3.1	2020	3	0
3.2	2020	3	0
4	2020	3	0
1	2020	4	0
2	2020	4	0
3.1	2020	4	0
3.2	2020	4	0
4	2020	4	0
1	2020	5	0
2	2020	5	0
3.1	2020	5	0
3.2	2020	5	0
4	2020	5	0
1	2020	6	0
2	2020	6	0
3.1	2020	6	0
3.2	2020	6	0
4	2020	6	0
1	2020	7	0
2	2020	7	0
3.1	2020	7	0
3.2	2020	7	0
4	2020	7	0
1	2020	8	0
2	2020	8	0
3.1	2020	8	0
3.2	2020	8	0

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
4	2020	8	0
1	2020	9	0
2	2020	9	0
3.1	2020	9	0
3.2	2020	9	0
4	2020	9	0
1	2020	10	0
2	2020	10	0
3.1	2020	10	0
3.2	2020	10	0
4	2020	10	0
1	2020	11	0
2	2020	11	0
3.1	2020	11	0
3.2	2020	11	0
4	2020	11	0
1	2020	12	0
2	2020	12	0
3.1	2020	12	0
3.2	2020	12	0
4	2020	12	0
1	2021	1	0
2	2021	1	0
3.1	2021	1	0
3.2	2021	1	0
4	2021	1	0
1	2021	2	0
2	2021	2	0
3.1	2021	2	0
3.2	2021	2	0
4	2021	2	0
1	2021	3	0
2	2021	3	0

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Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
3.1	2021	3	0
3.2	2021	3	0
4	2021	3	0
1	2021	4	0
2	2021	4	0
3.1	2021	4	0
3.2	2021	4	0
4	2021	4	0
1	2021	5	0
2	2021	5	0
3.1	2021	5	0
3.2	2021	5	0
4	2021	5	0
1	2021	6	0
2	2021	6	0
3.1	2021	6	0
3.2	2021	6	0
4	2021	6	0
1	2021	7	0
2	2021	7	0
3.1	2021	7	0
3.2	2021	7	0
4	2021	7	0
1	2021	8	0
2	2021	8	0
3.1	2021	8	0
3.2	2021	8	0
4	2021	8	0
1	2021	9	0
2	2021	9	0
3.1	2021	9	0
3.2	2021	9	0
4	2021	9	0

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Short-Term Customer Models Input Data

revcls	YEAR	MONTH	or8
1	2021	10	0
2	2021	10	0
3.1	2021	10	0
3.2	2021	10	0
4	2021	10	0
1	2021	11	0
2	2021	11	0
3.1	2021	11	0
3.2	2021	11	0
4	2021	11	0
1	2021	12	0
2	2021	12	0
3.1	2021	12	0
3.2	2021	12	0
4	2021	12	0

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Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable
0	MU	8.04670	10.82766	0.74	0.4574	0	CUST
0	AR1,1	-0.33625	0.09458	-3.56	0.0004	2	CUST
0	AR2,1	-0.27355	0.09667	-2.83	0.0047	4	CUST
0	AR3,1	0.32119	0.08989	3.57	0.0004	12	CUST
0	AR4,1	0.31662	0.08781	3.61	0.0003	14	CUST
0	NUM1	1072.4	70.48476	15.22	<.0001	0	res2
0	NUM2	1927.4	39.08287	49.31	<.0001	0	res3
0	NUM3	-2359.0	88.92311	-26.53	<.0001	0	res4
0	NUM4	2814.6	92.13042	30.55	<.0001	0	res5
0	NUM5	-2123.1	61.21317	-34.68	<.0001	0	res6

Constant Estimate 6.35236
Variance Estimate 11409.2
Std Error Estimate 106.8139
AIC 1608.348

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SBC 1637.1
Number of Residuals 131

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Correlations of Parameter Estimates

Variable	CUST	CUST	CUST	CUST	CUST	res2	res3	res4
Parameter	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3	NUM4
res5	MU	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3	NUM4
res6	MU	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3	NUM4
NUM4	MU	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3	NUM4
0.001	CUST	MU	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2
0.002	CUST	MU	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2
0.003	CUST	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.136	CUST	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.128	CUST	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.049	CUST	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.054	res2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.246	res3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.682	res4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
1.000	res5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.004	res6	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
1.000	NUM4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.002	NUM5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.166	NUM1	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.083	NUM2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.060	NUM3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	NUM4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	NUM5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.026	NUM1	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.053	NUM2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.077	NUM3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.026	NUM4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.026	NUM5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.026	res2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.019	res3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.388	res4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
1.000	res5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
-0.055	res6	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.054	NUM1	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.054	NUM2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.246	NUM3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	NUM4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	NUM5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	res2	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	res3	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	res4	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	res5	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3
0.006	res6	AR1,1	AR2,1	AR3,1	AR4,1	NUM1	NUM2	NUM3

Indiana Michigan Power Company - Michigan

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----											
6	4.85	2	0.0885	-0.036	-0.012	0.144	-0.033	-0.053							
12	8.08	8	0.4254	-0.014	-0.037	0.029	0.112	0.085							
18	11.88	14	0.6157	0.034	-0.001	-0.110	-0.106	-0.009							
24	20.86	20	0.4057	-0.016	-0.089	-0.212	0.037	0.019							

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Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-----Autocorrelations-----									
0	11409.202	1.00000	|*****|									
1	-409.326	-.03588	| . * |									
2	-131.752	-.01155	| . |									
3	1646.464	0.14431	. * * *									
4	-380.815	-.03338	. *									

Std Error

- 0
- 0.087370
- 0.087483
- 0.087494
- 0.089293

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0.089388	5	-605.503	-0.05307	.	*	.
0.089628	6	1094.228	0.09591	.	**	.
0.090408	7	-161.663	-0.01417	.	.	.
0.090425	8	-418.911	-0.03672	.	*	.
0.090539	9	332.317	0.02913	.	*	.
0.090610	10	1279.683	0.11216	.	**	.
0.091664	11	965.985	0.08467	.	**	.
0.092259	12	-190.209	-0.01667	.	.	.
0.092282	13	382.851	0.03356	.	*	.
0.092375	14	-6.972462	-0.00061	.	.	.
0.092375	15	-1252.043	-0.10974	.	**	.
0.093365	16	-1205.311	-0.10564	.	**	.
0.094273	17	-98.326263	-0.00862	.	.	.
0.094279	18	-321.564	-0.02818	.	*	.
0.094344	19	-180.250	-0.01580	.	.	.
0.094364	20	-1013.473	-0.08883	.	**	.
0.095000	21	-2413.617	-0.21155	.	****	.
0.098531	22	418.706	0.03670	.	*	.
0.098635	23	214.625	0.01881	.	.	.

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Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.03588											*											
2	-0.01285											.											.
3	0.14364											.	***										***
4	-0.02386											.	.									.	.
5	-0.05339											.	*									.	.
6	0.07329											.	.	*								.	.
7	-0.00127											.	.	.								.	.
8	-0.02368											.	.	.								.	.
9	0.00121											.	.	.								.	.
10	0.12117											.	.	.	**							.	**
11	0.11246											.	.	.	**							.	**
12	-0.02594											.	.	.	*							.	.
13	-0.00061											.	.	.	.							.	.
14	-0.01104											.	.	.	.							.	.
15	-0.09539											.	**									.	**
16	-0.14062											.	***									.	***
17	-0.03338											.	***	*								.	*
18	0.01618											.	.	.								.	.
19	0.00918											.	.	.								.	.
20	-0.12804											.	***									.	***
21	-0.25870											.	***	*								.	***
22	0.02397											.	***	*								.	***
23	0.05343											.	***	*								.	*
24	0.10870											.	***	*								.	**

Model for variable CUST

Estimated Intercept 8.046696
Period(s) of Differencing 1
Indiana Michigan Power Company

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Residential Customers

The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 + 0.33625 B**(2)
Factor 2: 1 + 0.27355 B**(4)
Factor 3: 1 - 0.32119 B**(12)
Factor 4: 1 - 0.31662 B**(14)

Input Number 1

Input Variable res2
Period(s) of Differencing 1
Overall Regression Factor 1072.445

Input Number 2

Input Variable res3
Period(s) of Differencing 1
Overall Regression Factor 1927.356

Input Number 3

Input Variable res4
Period(s) of Differencing 1
Overall Regression Factor -2358.97

Input Number 4

Input Variable res5
 Period(s) of Differencing 1
 Overall Regression Factor 2814.555
 Indiana Michigan Power Company

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Residential Customers

The ARIMA Procedure

Input Number 5

Input Variable res6
 Period(s) of Differencing 1
 Overall Regression Factor -2123.05

Outlier Detection Summary

Maximum number searched 3
 Number found 3
 Significance used 0.05

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
111	MAR2017	Additive	178.33889	9.62	0.0019
14	FEB2009	Additive	-172.46184	9.00	0.0027
11	NOV2008	Additive	-223.30613	13.92	0.0002

Forecasts for variable CUST

Indiana Michigan Power Company - Michigan

Obs	Forecast	Std Error	95% Confidence Limits
133	110331.3	106.81	110122.0
134	110353.2	151.06	110057.1
135	110416.3	166.87	110089.2
136	110420.4	181.30	110065.1
137	110367.5	189.11	109996.9
138	110395.5	196.60	110010.1
139	110434.0	205.41	110031.4
140	110408.5	213.86	109989.4
141	110457.0	223.69	110018.6

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Residential Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
142	110480.5	233.10	110023.7
143	110418.0	241.60	109944.5
144	110474.5	249.82	109984.9
145	110471.9	267.75	109947.1
146	110481.7	284.56	109924.0
147	110527.9	308.49	109923.3
148	110538.5	330.69	109890.4
149	110548.2	346.27	109869.5
150	110562.2	361.17	109854.3
151	110567.7	374.49	109833.7
152	110573.7	387.34	109814.6
153	110584.2	400.70	109798.8
154	110592.8	413.63	109782.1
155	110598.9	426.49	109763.0
156	110615.5	438.97	109755.2
157	110610.4	453.49	109721.6
158	110630.7	467.56	109714.3

Indiana Michigan Power Company - Michigan

159	110636.3	482.88	109689.9	111582.8
160	110644.4	497.73	109668.8	111619.9
161	110659.4	513.49	109653.0	111665.9
162	110670.6	528.79	109634.2	111707.0
163	110684.5	542.59	109621.1	111748.0
164	110691.8	556.05	109602.0	111781.6
165	110696.7	569.06	109581.4	111812.0
166	110707.7	581.78	109567.4	111848.0
167	110711.8	594.43	109546.7	111876.8
168	110721.2	606.81	109531.9	111910.5

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Indiana Michigan Power Company

Commercial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > |t|	Lag	Variable
0	MU	12862.3	191.75114	67.08	<.0001	0	CUST
0	AR1,1	0.30165	0.09477	3.18	0.0015	12	CUST
0	NUM1	318.95367	34.55059	9.23	<.0001	0	com1
0	NUM2	-326.77876	46.30347	-7.06	<.0001	0	com2
0	NUM3	702.08015	46.32296	15.16	<.0001	0	com3
0	NUM4	2361.2	356.22344	6.63	<.0001	0	com4
0	NUM5	0.23744	0.01029	23.07	<.0001	0	time
0	NUM6	-0.12233	0.01794	-6.82	<.0001	0	com4t

Indiana Michigan Power Company - Michigan

0	NUM7	-408.25525	45.12717	-9.05	<.0001	0	com5
0	NUM8	1338.9	48.25930	27.74	<.0001	0	com6
0	NUM9	2187.0	48.10449	45.46	<.0001	0	com7

Constant Estimate	8982.408
Variance Estimate	2225.056
Std Error Estimate	47.1705
AIC	1403.654
SBC	1435.365
Number of Residuals	132

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Commercial Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable	com6	CUST	com1	com2	com3	com4	com4t
Parameter	AR1,1	AR1,1	NUM1	NUM2	NUM3	NUM4	NUM6
NUM7	NUM8	NUM9	NUM1	NUM2	NUM3	NUM4	NUM5
CUST	MU	MU	1.000	0.010	-0.004	-0.634	0.663
0.012	0.001	-0.004	-0.020	0.010	-0.004	-0.634	-0.999
CUST	AR1,1	0.077	1.000	0.113	-0.116	0.043	time
0.024	0.111	1.000	-0.288	0.113	-0.116	0.043	NUM5
com1	NUM1	-0.288	1.000	-0.222	0.223	-0.014	NUM6
0.007	-0.032	-0.018	-0.288	-0.222	0.223	-0.014	0.012
com2	NUM2	0.010	0.113	1.000	-0.047	-0.002	0.004
0.003	0.012	0.007	0.113	-0.222	-0.047	-0.002	-0.012

Indiana Michigan Power Company - Michigan

com3	NUM3	-0.004	-0.116	0.223	-0.047	1.000	-0.014	0.002	0.015	-
0.002	-0.013	-0.008								
com4	NUM4	-0.634	0.043	-0.014	-0.002	-0.014	1.000	0.637	-0.999	-
0.011	0.133	0.136								
time	NUM5	-0.999	-0.078	0.020	-0.012	0.002	0.637	1.000	-0.667	-
0.012	-0.001	0.004								
com4t	NUM6	0.663	-0.037	0.012	0.004	0.015	-0.999	-0.667	1.000	
0.009	-0.130	-0.134								
com5	NUM7	0.012	0.024	-0.007	0.003	-0.002	-0.011	-0.012	0.009	
1.000	0.011	0.010								
com6	NUM8	0.001	0.111	-0.032	0.012	-0.013	0.133	-0.001	-0.130	
0.011	1.000	0.049								
com7	NUM9	-0.004	0.064	-0.018	0.007	-0.008	0.136	0.004	-0.134	
0.010	0.049	1.000								

Autocorrelation Check of Residuals

	To Lag	Chi- Square	DF	Pr > ChiSq	-----Autocorrelations-----					
-0.113	6	5.45	5	0.3630	0.097	0.060	0.069	-0.088	-0.037	
-0.030	12	10.67	11	0.4709	-0.167	-0.079	-0.010	0.020	0.036	
-0.152	18	18.06	17	0.3852	0.044	0.067	0.066	-0.119	-0.011	
0.076	24	25.61	23	0.3194	-0.103	-0.023	-0.140	-0.041	0.096	

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Commercial Customers
The ARIMA Procedure

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0.094310	16	-264.362	-0.11881	.	**	.
0.095438	17	-24.629836	-0.01107	.	.	.
0.095447	18	-338.973	-0.15234	.	***	.
0.097272	19	-228.321	-0.10261	.	**	.
0.098089	20	-50.538855	-0.02271	.	.	.
0.098128	21	-312.285	-0.14035	.	***	.
0.099638	22	-91.259769	-0.04101	.	*	.
0.099765	23	212.672	0.09558	.	**	.
0.100457	24	168.167	0.07558	.	**	.

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". " marks two standard errors
Indiana Michigan Power Company

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Commercial Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.04983												.	*	.								
2	0.00611												.	.	.								
3	-0.05700												.	*	.								
4	0.09556												.	.	**	.							
5	0.00069												.	.	.								
6	0.09903												.	.	**	.							
7	0.08469												.	.	**	.							
8	0.05791												.	.	*	.							

Indiana Michigan Power Company - Michigan

11	0.01082				
12	-0.06860	*			
13	0.01462				
14	0.03525	*			
15	0.05476	*			
16	-0.14931	***			
17	0.01262				
18	-0.15258	***			
19	-0.06143	*			
20	-0.01396				
21	-0.09649	**			
22	-0.04439	*			
23	0.07124		*		
24	0.02840		*		

Model for variable CUST

Estimated Intercept 12862.29
Indiana Michigan Power Company

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Commercial Customers

The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.30165 B**(12)

Input Number 1

Input Variable com1
Overall Regression Factor 318.9537

Input Number 2

Input Variable com2
Overall Regression Factor -326.779

Input Number 3

Input Variable com3
Overall Regression Factor 702.0802

Input Number 4

Input Variable com4
Overall Regression Factor 2361.221

Input Number 5

Input Variable time
Overall Regression Factor 0.237444
Indiana Michigan Power Company

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Commercial Customers

The ARIMA Procedure

Input Number 6

Input Variable com4t
Overall Regression Factor -0.12233

Input Number 7

Input Variable com5
Overall Regression Factor -408.255

Indiana Michigan Power Company - Michigan

Input Number 8

Input Variable com6
Overall Regression Factor 1338.853

Input Number 9

Input Variable com7
Overall Regression Factor 2186.995

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

Indiana Michigan Power Company

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Commercial Customers

The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
36	DEC2010	Additive	-160.25074	26.24	<.0001
15	MAR2009	Additive	146.52675	26.95	<.0001
44	AUG2011	Additive	133.09362	22.24	<.0001

Forecasts for variable CUST

Obs Forecast Std Error 95% Confidence Limits

Indiana Michigan Power Company - Michigan

133	17688.3978	47.1705	17595.9453	17780.8503
134	17702.6541	47.1705	17610.2016	17795.1065
135	17688.6159	47.1705	17596.1634	17781.0684
136	17710.1560	47.1705	17617.7036	17802.6085
137	17715.8429	47.1705	17623.3904	17808.2953
138	17718.0318	47.1705	17625.5793	17810.4843
139	17727.0796	47.1705	17634.6272	17819.5321
140	17736.5095	47.1705	17644.0571	17828.9620
141	17729.6504	47.1705	17637.1980	17822.1029
142	17766.4499	47.1705	17673.9974	17858.9024
143	17740.2854	47.1705	17647.8329	17832.7378
144	17733.6475	47.1705	17641.1951	17826.1000
145	17741.3875	49.2698	17644.8204	17837.9546
146	17748.1799	49.2698	17651.6128	17844.7470
147	17746.3113	49.2698	17649.7442	17842.8784
148	17755.3008	49.2698	17658.7337	17851.8679
149	17759.4278	49.2698	17662.8607	17855.9949
150	17762.5801	49.2698	17666.0130	17859.1472
151	17767.7209	49.2698	17671.1538	17864.2880
152	17773.0574	49.2698	17676.4903	17869.6245
153	17773.4804	49.2698	17676.9133	17870.0475
154	17786.9925	49.2698	17690.4254	17883.5596
155	17781.5920	49.2698	17685.0249	17878.1591

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Indiana Michigan Power Company

Commercial Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
156	17782.0013	49.2698	17685.4342 17878.5684
157	17786.8281	49.4564	17689.8952 17883.7609
158	17791.3690	49.4564	17694.4361 17888.3018
159	17793.0214	49.4564	17696.0886 17889.9542

Indiana Michigan Power Company - Michigan

160	17798.2251	49.4564	17701.2922	17895.1579
161	17801.8816	49.4564	17704.9487	17898.8144
162	17805.3244	49.4564	17708.3916	17902.2573
163	17809.2868	49.4564	17712.3540	17906.2196
164	17813.3885	49.4564	17716.4557	17910.3213
165	17816.0081	49.4564	17719.0753	17912.9409
166	17822.4956	49.4564	17725.5628	17919.4284
167	17823.3585	49.4564	17726.4257	17920.2914
168	17825.8936	49.4564	17728.9608	17922.8264

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Indiana Michigan Power Company

Industrial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > |t|	Approx	Lag	Variable
0	MU	-0.87601	0.16263	-5.39	<.0001		0	CUST
0	MA1,1	0.56533	0.08268	6.84	<.0001		1	CUST
0	MA2,1	0.21002	0.09673	2.17	0.0299		3	CUST
0	AR1,1	-0.23572	0.08973	-2.63	0.0086		10	CUST
0	NUM1	-25.00802	6.06847	-4.12	<.0001		0	ind1
0	NUM2	64.29741	5.92776	10.85	<.0001		0	ind2
0	NUM3	-19.16777	5.55765	-3.45	0.0006		0	ind4
0	NUM4	34.36305	5.91170	5.81	<.0001		0	ind5

Indiana Michigan Power Company - Michigan

0 NUM5 46.00051 5.92462 7.76 <.0001 0 ind6

Constant Estimate -1.08251
Variance Estimate 42.47494
Std Error Estimate 6.51728
AIC 872.7166
SBC 898.5934
Number of Residuals 131

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Industrial Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable	CUST	CUST	CUST	CUST	ind1	ind2	ind4
ind5							
NUM4							
ind6							
Parameter							
NUM5							
CUST	MU	MA1,1	MA2,1	AR1,1	NUM1	NUM2	NUM3
0.005	1.000	-0.001	-0.006	-0.015	-0.002	-0.001	-0.000
-0.007							
CUST	MA1,1	1.000	-0.341	-0.006	-0.283	-0.130	-0.010
0.037							
-0.041							
CUST	MA2,1	-0.341	1.000	-0.051	0.175	-0.104	-0.009
0.035							
0.066							
CUST	AR1,1	-0.006	-0.051	1.000	0.110	0.131	0.021
0.021							
0.034							
ind1	NUM1	-0.283	0.175	0.110	1.000	0.279	0.004
0.015							
0.020							
ind2	NUM2	-0.130	-0.104	0.131	0.279	1.000	0.006
0.004							
0.001							

Indiana Michigan Power Company - Michigan

0.093317	17	7.538735	0.17749	.	****
0.095859	18	-0.267140	-0.00629	.	.
0.095862	19	2.261925	0.05325	.	*
0.096088	20	-2.598057	-0.06117	.	*
0.096385	21	-8.066856	-0.18992	****	.
0.099200	22	3.230178	0.07605	.	**
0.099644	23	-2.545073	-0.05992	.	*
0.099919	24	-2.565777	-0.06041	.	*

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.01031												.										
2	-0.14805											***	.										
3	-0.00257											.	.										
4	0.06393											.	*	.									
5	0.01181											.	.	.									
6	0.01324																		

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Industrial Customers

The ARIMA Procedure

Inverse Autocorrelations

Indiana Michigan Power Company - Michigan

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
7	-0.03288										*												
8	-0.03941										*												
9	-0.01834																						
10	0.06963											*											
11	0.02443																						
12	-0.08408										**												
13	0.01291																						
14	-0.01965																						
15	0.08873											**											
16	0.10002											**											
17	-0.11197										**												
18	-0.06702										*												
19	-0.03361										*												
20	0.10722											**											
21	0.13727											**											
22	-0.07957										**												
23	0.01094																						
24	0.08737											**											

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.04144										*												
2	0.07514											**											
3	0.00695																						
4	-0.11100										**												
5	0.08632											**											
6	-0.00144																						
7	-0.00298																						
8	0.02356																						
9	0.03058										*												

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Indiana Michigan Power Company

Industrial Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
10	-0.03891										*													
11	-0.02832										*													
12	0.10674											**												
13	-0.06061										*													
14	0.00794																							
15	-0.08092										**													
16	-0.12034										**													
17	0.16342												***											
18	0.04459											*												
19	0.00031																							
20	-0.08363										**													
21	-0.16200										***													
22	0.06809											*												
23	-0.00883																							
24	-0.09904										**													

Model for variable CUST

Estimated Intercept -0.87601
 Period(s) of Differencing 1

Autoregressive Factors

Factor 1: 1 + 0.23572 B**(10)

Moving Average Factors

Factor 1: 1 - 0.56533 B**(1)

Factor 2: 1 - 0.21002 B**(3)
 Indiana Michigan Power Company

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Industrial Customers

The ARIMA Procedure

Input Number 1

Input Variable	ind1
Period(s) of Differencing	1
Overall Regression Factor	-25.008

Input Number 2

Input Variable	ind2
Period(s) of Differencing	1
Overall Regression Factor	64.29741

Input Number 3

Input Variable	ind4
Period(s) of Differencing	1
Overall Regression Factor	-19.1678

Input Number 4

Input Variable	ind5
Period(s) of Differencing	1
Overall Regression Factor	34.36305

Input Number 5

Input Variable	ind6
----------------	------

Indiana Michigan Power Company - Michigan

Period(s) of Differencing 1
Overall Regression Factor 46.00051
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Industrial Customers

The ARIMA Procedure

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
32	AUG2010	Additive	22.37996	26.23	<.0001
49	JAN2012	Additive	17.56136	16.15	<.0001
110	FEB2017	Additive	16.66732	14.23	0.0002

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	900.4637	6.5173	887.6901 913.2373
134	898.2068	7.1063	884.2786 912.1350
135	898.4787	7.6502	883.4846 913.4727
136	898.1962	7.7890	882.9300 913.4624
137	896.4065	8.1041	880.5227 912.2903
138	895.7954	8.4074	879.3172 912.2737
139	895.4201	8.7002	878.3680 912.4722
140	893.6304	8.9834	876.0233 911.2376
141	891.6050	9.2580	873.4598 909.7503

Indiana Michigan Power Company - Michigan

142	891.7012	9.5246	873.0333	910.3690
143	890.5093	9.5504	871.7909	909.2278
144	889.9588	9.6786	870.9891	908.9286
145	888.8122	9.8051	869.5945	908.0300
146	887.7963	9.9862	868.2238	907.3689
147	887.1357	10.1316	867.2782	906.9932
148	886.1972	10.2749	866.0587	906.3357

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Indiana Michigan Power Company

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Industrial Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
149	885.2032	10.4163	864.7876
150	884.5426	10.5558	863.8535
151	883.9375	10.6935	862.9786
152	882.8323	10.8294	861.6071
153	882.0308	11.0259	860.4203
154	881.0780	11.1830	859.1597
155	880.2658	11.3379	858.0439
156	879.4228	11.4786	856.9251
157	878.4960	11.6243	855.7127
158	877.6347	11.7682	854.5694
159	876.7865	11.9104	853.4426
160	875.8597	12.0509	852.2404
161	874.9198	12.1897	851.0284
162	874.0979	12.3271	849.9373
163	873.2043	12.4506	848.8016
164	872.3464	12.5797	847.6907
165	871.4553	12.7075	846.5492
166	870.5715	12.8365	845.4125
167	869.7075	12.9628	844.3008
168	868.8280	13.0880	843.1761

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Other Retail Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag	Variable
0	MU	0.0014101	0.03205	0.04	0.9649	0	CUST
0	MA1,1	0.52517	0.08160	6.44	<.0001	1	CUST
0	MA2,1	0.20227	0.09526	2.12	0.0337	8	CUST
0	AR1,1	-0.24927	0.09535	-2.61	0.0089	7	CUST
0	NUM1	3.64050	0.93854	3.88	0.0001	0	or1
0	NUM2	3.95263	0.62968	6.28	<.0001	0	or2
0	NUM3	-6.36860	1.02365	-6.22	<.0001	0	or3
0	NUM4	8.78715	1.04388	8.42	<.0001	0	or4
0	NUM5	16.42500	0.97911	16.78	<.0001	0	or5
0	NUM6	3.51438	0.61773	5.69	<.0001	0	or6
0	NUM7	-126.14533	0.99904	-126.27	<.0001	0	or7
0	NUM8	168.79990	0.99996	168.81	<.0001	0	or8

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Constant Estimate 0.001762
Variance Estimate 1.309904
Std Error Estimate 1.14451
AIC 419.6538
SBC 454.1562
Number of Residuals 131

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The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter	MU	CUST MA1,1	CUST MA2,1	CUST AR1,1	or1 NUM1	or2 NUM2
CUST	1.000	0.019	0.016	-0.016	0.213	0.003
CUST MA1,1	0.019	1.000	-0.009	0.089	0.144	0.068
CUST MA2,1	0.016	-0.009	1.000	-0.028	0.115	0.027
CUST AR1,1	-0.016	0.089	-0.028	1.000	-0.044	0.187
or1 NUM1	0.213	0.144	0.115	-0.044	1.000	0.025
or2 NUM2	0.068	0.068	0.027	0.187	0.025	1.000
or3 NUM3	-0.006	-0.128	-0.259	-0.025	-0.045	-0.014
or4 NUM4	0.002	-0.110	-0.110	-0.315	-0.011	-0.065
or5 NUM5	-0.003	-0.134	-0.130	-0.092	-0.030	-0.028
or6 NUM6	0.001	0.018	0.018	-0.015	0.006	-0.001
or7 NUM7	-0.030	0.065	0.032	0.024	0.006	0.009
or8 NUM8	-0.027	0.045	0.011	0.038	0.000	0.009

Correlations of Parameter Estimates

Variable Parameter	or3 NUM3	or4 NUM4	or5 NUM5	or6 NUM6	or7 NUM7	or8 NUM8
CUST	-0.006	0.002	-0.003	0.001	-0.030	-0.027
MU						

Indiana Michigan Power Company - Michigan

CUST	MA1,1	-0.128	-0.110	-0.134	0.018	0.065	0.045
CUST	MA2,1	-0.259	-0.110	-0.130	0.018	0.032	0.011
CUST	AR1,1	-0.025	-0.315	-0.092	-0.015	0.024	0.038
or1	NUM1	-0.045	-0.011	-0.030	0.006	0.006	0.000
or2	NUM2	-0.014	-0.065	-0.028	-0.001	0.009	0.009
or3	NUM3	1.000	0.234	0.051	0.022	-0.017	-0.009
or4	NUM4	0.234	1.000	0.054	0.011	-0.017	-0.017
or5	NUM5	0.051	0.054	1.000	-0.008	-0.015	-0.010
or6	NUM6	0.022	0.011	-0.008	1.000	0.001	0.000
or7	NUM7	-0.017	-0.017	-0.015	0.001	1.000	0.220
or8	NUM8	-0.009	-0.017	-0.010	0.000	0.220	1.000

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Indiana Michigan Power Company

Other Retail Customers

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----
6	4.98	3	0.1735	-0.044 0.060 -0.007 0.120 -0.081
12	7.29	9	0.6073	0.025 0.009 0.041 -0.018 0.109
18	12.03	15	0.6765	0.077 0.086 0.124 -0.026 0.036
24	20.60	21	0.4838	0.111 -0.176 0.040 0.089 -0.034

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
-----	------------	-------------	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Std Error

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0	1.309904	1.00000	*****
0.087370	-0.057565	-0.4395	. *
0.087539	0.078041	0.05958	. *
0.087848	-0.0092016	-0.00702	. .
0.087852	0.156759	0.11967	. ** .
0.089088	-0.106134	-0.08102	. ** | .
0.089649	0.129330	0.09873	. ** .
0.090475	0.032524	0.02483	. .
0.090527	0.011524	0.00880	. .
0.090533	0.053114	0.04055	. * .
0.090672	-0.023920	-0.01826	. .
0.090700	0.142669	0.10892	. ** .
0.091693	-0.049330	-0.03766	. * | .
0.091811	0.100715	0.07689	. ** .
0.092301	0.112452	0.08585	. ** .
0.092909	0.162368	0.12395	. ** .
0.094163	-0.034419	-0.02628	. * .
0.094219	0.047219	0.03605	. * .
0.094324	-0.042909	-0.03276	. * .

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8	0.06868				*	
9	-0.09850				**	
10	0.07744				*	
11	-0.09364				**	
12	0.02226				.	
13	-0.00287				.	
14	-0.17359				***	
15	-0.00891				.	
16	-0.03247				*	
17	-0.00265				.	
18	0.05585				*	
19	-0.10166				**	
20	0.18040				****	
21	-0.01433				.	
22	-0.08613				**	

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The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
23	0.06146												*	.	.	.	.	.	.	.	.	.	.
24	-0.01696												.	.	.	.	.	.	.	.	.	.	.

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	-0.04395												*
2	0.05776												.	*
3	-0.00203											
4	0.11647												.	.	*	*
5	-0.07215												.	.	*

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6	0.08203			***
7	0.03988			*
8	-0.01187			.
9	0.05659			*
10	-0.04310		*	.
11	0.11347			**
12	-0.03407		*	.
13	0.05182			*
14	0.11150			**
15	0.08915			**
16	0.00407			.
17	-0.01229			.
18	-0.04325		*	.
19	0.10065			**
20	-0.19452		****	.
21	0.00900			.
22	0.10158			**
23	-0.07098		*	.
24	0.01959			.

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Other Retail Customers

The ARIMA Procedure

Model for variable CUST

Estimated Intercept 0.00141
 Period(s) of Differencing 1

Autoregressive Factors

Factor 1: $1 + 0.24927 B^{**}(7)$

Moving Average Factors

Factor 1: 1 - 0.52517 B**(1)
Factor 2: 1 - 0.20227 B**(8)

Input Number 1

Input Variable or1
Period(s) of Differencing 1
Overall Regression Factor 3.640501

Input Number 2

Input Variable or2
Period(s) of Differencing 1
Overall Regression Factor 3.952626

Input Number 3

Input Variable or3
Period(s) of Differencing 1
Overall Regression Factor -6.3686
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Other Retail Customers

The ARIMA Procedure

Input Number 4

Input Variable or4
Period(s) of Differencing 1
Overall Regression Factor 8.787146

Input Number 5

Input Variable or5
Period(s) of Differencing 1
Overall Regression Factor 16.425

Input Number 6

Input Variable or6
Period(s) of Differencing 1
Overall Regression Factor 3.514384

Input Number 7

Input Variable or7
Period(s) of Differencing 1
Overall Regression Factor -126.145

Input Number 8

Input Variable or8
Period(s) of Differencing 1
Overall Regression Factor 168.7999
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Other Retail Customers

The ARIMA Procedure

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

Outlier Details

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Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
13	JAN2009	Additive	3.87418	33.36	<.0001
32	AUG2010	Additive	3.23232	25.29	<.0001
29	MAY2010	Shift	-2.50229	17.33	<.0001

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
133	345.0404	1.1445	342.7972 347.2836
134	345.0827	1.2670	342.5995 347.5660
135	344.9842	1.3786	342.2821 347.6862
136	344.9553	1.4819	342.0509 347.8597
137	345.0492	1.5784	341.9557 348.1428
138	344.9910	1.6693	341.7192 348.2628
139	344.9526	1.7555	341.5118 348.3934
140	344.9752	1.7744	341.4974 348.4530
141	344.9659	1.7832	341.4709 348.4609
142	344.9922	1.8079	341.4488 348.5357
143	345.0012	1.8323	341.4099 348.5925
144	344.9795	1.8564	341.3410 348.6180
145	344.9958	1.8802	341.3107 348.6809
146	345.0071	1.9037	341.2760 348.7383
147	345.0033	1.9391	341.2026 348.8039
148	345.0073	1.9779	341.1308 348.8839

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Other Retail Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits
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149	345.0025	2.0102	341.0626	348.9425
150	345.0021	2.0421	340.9997	349.0045
151	345.0092	2.0734	340.9454	349.0731
152	345.0069	2.1043	340.8825	349.1313
153	345.0059	2.1348	340.8218	349.1899
154	345.0086	2.1619	340.7713	349.2459
155	345.0093	2.1879	340.7211	349.2976
156	345.0123	2.2148	340.6714	349.3532
157	345.0142	2.2414	340.6212	349.4072
158	345.0142	2.2676	340.5697	349.4586
159	345.0165	2.2935	340.5212	349.5118
160	345.0185	2.3192	340.4730	349.5641
161	345.0196	2.3452	340.4231	349.6161
162	345.0212	2.3711	340.3738	349.6685
163	345.0222	2.3965	340.3251	349.7193
164	345.0235	2.4216	340.2772	349.7698
165	345.0253	2.4465	340.2303	349.8202
166	345.0264	2.4711	340.1833	349.8696
167	345.0277	2.4954	340.1368	349.9186
168	345.0292	2.5194	340.0913	349.9671

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2008	1	109,268			IMM
2	2008	1	16,965	16928.19	17122.13	IMM
3.1	2008	1	1,017			IMM
3.2	2008	1	9			IMM
4	2008	1	349			IMM
1	2008	2	109,458	109034.5	109517.6	IMM
2	2008	2	17,023	16935.55	17129.49	IMM
3.1	2008	2	1,018	1000.696	1031.552	IMM
3.2	2008	2	9			IMM
4	2008	2	351	346.3859	351.6169	IMM
1	2008	3	109,390	109224.5	109707.6	IMM
2	2008	3	16,977	16942.43	17136.37	IMM
3.1	2008	3	1,012	1002.379	1030.261	IMM
3.2	2008	3	9			IMM
4	2008	3	350	347.8242	352.6665	IMM
1	2008	4	109,143	109126.8	109601.6	IMM
2	2008	4	17,020	16949.8	17143.73	IMM
3.1	2008	4	1,014	999.5158	1027.199	IMM
3.2	2008	4	9			IMM
4	2008	4	349	347.694	352.447	IMM
1	2008	5	109,112	108927.8	109402.6	IMM
2	2008	5	17,016	16956.92	17150.86	IMM
3.1	2008	5	1,016	999.0606	1025.776	IMM
3.2	2008	5	9			IMM
4	2008	5	348	347.1452	351.8748	IMM
1	2008	6	109,096	108906.8	109370.4	IMM
2	2008	6	17,082	16964.28	17158.22	IMM
3.1	2008	6	1,010	1000.971	1027.41	IMM
3.2	2008	6	9			IMM
4	2008	6	348	346.3834	351.1067	IMM
1	2008	7	109,198	108897.4	109361	IMM
2	2008	7	17,101	16971.4	17165.34	IMM
3.1	2008	7	1,010	997.6967	1024.092	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.2	2008	7	9			IMM
4	2008	7	348	346.0407	350.7629	IMM
1	2008	8	109,218	109030.1	109493.4	IMM
2	2008	8	17,077	16978.76	17172.7	IMM
3.1	2008	8	1,001	995.8131	1022.071	IMM
3.2	2008	8	9			IMM
4	2008	8	347	345.989	350.6839	IMM
1	2008	9	109,231	108984	109447.3	IMM
2	2008	9	17,176	16986.12	17180.06	IMM
3.1	2008	9	1,006	992.8808	1019.138	IMM
3.2	2008	9	9			IMM
4	2008	9	346	344.9056	349.5749	IMM
1	2008	10	109,267	109016.7	109479.8	IMM
2	2008	10	17,154	16993.25	17187.19	IMM
3.1	2008	10	994	991.3972	1017.655	IMM
3.2	2008	10	9			IMM
4	2008	10	345	344.2105	348.7459	IMM
1	2008	11	109,005	109024.4	109487.6	IMM
2	2008	11	17,038	17000.61	17194.55	IMM
3.1	2008	11	990	987.6357	1013.706	IMM
3.2	2008	11	9			IMM
4	2008	11	345	343.9516	348.4578	IMM
1	2008	12	109,312	108766.7	109226.3	IMM
2	2008	12	17,076	17007.73	17201.67	IMM
3.1	2008	12	1,005	980.7277	1006.458	IMM
3.2	2008	12	9			IMM
4	2008	12	341	340.155	344.6531	IMM
1	2009	1	109,390	109158.2	109617.8	IMM
2	2009	1	17,085	17001.46	17186.37	IMM
3.1	2009	1	1,010	988.2396	1013.868	IMM
3.2	2009	1	9			IMM
4	2009	1	347	339.6637	344.1597	IMM
1	2009	2	108,999	109156.5	109607.7	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
2	2009	2	17,043	17024.1	17209	IMM
3.1	2009	2	1,009	991.6402	1017.26	IMM
3.2	2009	2	9			IMM
4	2009	2	343	342.0856	346.5809	IMM
1	2009	3	110,263	109886.8	110338	IMM
2	2009	3	17,264	17014.79	17199.7	IMM
3.1	2009	3	1,001	988.4958	1014.067	IMM
3.2	2009	3	9			IMM
4	2009	3	345	341.6881	346.1832	IMM
1	2009	4	109,396	109027.4	109454.3	IMM
2	2009	4	17,089	17032.91	17217.81	IMM
3.1	2009	4	998	988.1735	1013.73	IMM
3.2	2009	4	9			IMM
4	2009	4	343	342.6392	347.1334	IMM
1	2009	5	109,271	109105.6	109532.6	IMM
2	2009	5	17,088	17036.67	17221.58	IMM
3.1	2009	5	989	985.9106	1011.464	IMM
3.2	2009	5	9			IMM
4	2009	5	347	342.0907	346.5841	IMM
1	2009	6	109,196	109008.3	109431	IMM
2	2009	6	17,172	17061.72	17246.63	IMM
3.1	2009	6	996	983.3345	1008.884	IMM
3.2	2009	6	9			IMM
4	2009	6	346	343.54	348.0284	IMM
1	2009	7	109,210	108988.7	109411.4	IMM
2	2009	7	17,190	17072.43	17257.33	IMM
3.1	2009	7	1,000	981.6131	1007.161	IMM
3.2	2009	7	9			IMM
4	2009	7	346	343.8231	348.3103	IMM
1	2009	8	109,190	108984.5	109405.4	IMM
2	2009	8	17,195	17070.33	17255.23	IMM
3.1	2009	8	993	987.4833	1013.031	IMM
3.2	2009	8	9			IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
4	2009	8	343	342.456	346.9429	IMM
1	2009	9	109,188	109030.9	109451.8	IMM
2	2009	9	17,185	17105.33	17290.24	IMM
3.1	2009	9	995	983.0625	1008.61	IMM
3.2	2009	9	9			IMM
4	2009	9	343	341.4727	345.9594	IMM
1	2009	10	109,179	108986.5	109407.3	IMM
2	2009	10	17,208	17103.67	17288.58	IMM
3.1	2009	10	986	976.889	1002.436	IMM
3.2	2009	10	9			IMM
4	2009	10	342	341.4434	345.9302	IMM
1	2009	11	109,133	108924.6	109345.5	IMM
2	2009	11	17,179	17073.82	17258.73	IMM
3.1	2009	11	982	975.2264	1000.774	IMM
3.2	2009	11	9			IMM
4	2009	11	342	340.7862	345.273	IMM
1	2009	12	109,351	109046.4	109467.2	IMM
2	2009	12	17,196	17090.26	17275.16	IMM
3.1	2009	12	976	971.0856	996.6328	IMM
3.2	2009	12	9			IMM
4	2009	12	342	339.7964	344.2831	IMM
1	2010	1	109,502	109093.6	109514.5	IMM
2	2010	1	17,161	17098.11	17283.02	IMM
3.1	2010	1	980	969.1426	994.6899	IMM
3.2	2010	1	9			IMM
4	2010	1	341	339.2913	343.778	IMM
1	2010	2	107,628	107314.9	107735.4	IMM
2	2010	2	16,856	16771.63	16956.54	IMM
3.1	2010	2	975	968.7596	994.3069	IMM
3.2	2010	2	9			IMM
4	2010	2	339	335.3249	339.8114	IMM
1	2010	3	111,530	111281.2	111701.7	IMM
2	2010	3	17,563	17480.85	17665.75	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2010	3	989	967.897	993.4443	IMM
3.2	2010	3	9			IMM
4	2010	3	347	344.696	349.1825	IMM
1	2010	4	109,314	109267.2	109686.1	IMM
2	2010	4	17,190	17114.24	17299.15	IMM
3.1	2010	4	973	968.2543	993.8016	IMM
3.2	2010	4	9			IMM
4	2010	4	344	341.1106	345.597	IMM
1	2010	5	109,185	109089.6	109508.5	IMM
2	2010	5	17,135	17118.92	17303.82	IMM
3.1	2010	5	968	963.884	989.4313	IMM
3.2	2010	5	9			IMM
4	2010	5	343	341.6328	346.1192	IMM
1	2010	6	109,369	109087	109505.8	IMM
2	2010	6	17,374	17149.4	17334.3	IMM
3.1	2010	6	976	958.1633	983.7106	IMM
3.2	2010	6	9			IMM
4	2010	6	341	341.4837	345.9701	IMM
1	2010	7	109,296	109175.4	109594.3	IMM
2	2010	7	17,240	17159.8	17344.7	IMM
3.1	2010	7	969	961.4851	987.0324	IMM
3.2	2010	7	9			IMM
4	2010	7	342	340.2197	344.7061	IMM
1	2010	8	109,234	109075.4	109494.1	IMM
2	2010	8	17,362	17166.45	17351.35	IMM
3.1	2010	8	996	961.1034	986.6507	IMM
3.2	2010	8	9			IMM
4	2010	8	345	340.1496	344.636	IMM
1	2010	9	109,234	109083.5	109502.3	IMM
2	2010	9	17,249	17168.57	17353.48	IMM
3.1	2010	9	967	968.4887	994.036	IMM
3.2	2010	9	9			IMM
4	2010	9	340	341.0066	345.493	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2010	10	109,301	109018.2	109436.9	IMM
2	2010	10	17,321	17180.48	17365.39	IMM
3.1	2010	10	980	964.3267	989.874	IMM
3.2	2010	10	9			IMM
4	2010	10	341	339.0952	343.5816	IMM
1	2010	11	109,407	109104.7	109523.4	IMM
2	2010	11	17,348	17176.88	17361.78	IMM
3.1	2010	11	969	958.2911	983.8383	IMM
3.2	2010	11	9			IMM
4	2010	11	342	338.8386	343.325	IMM
1	2010	12	109,347	109239.5	109658.2	IMM
2	2010	12	17,115	17186.98	17371.88	IMM
3.1	2010	12	963	963.1118	988.659	IMM
3.2	2010	12	9			IMM
4	2010	12	339	339.4014	343.8878	IMM
1	2011	1	109,413	109165.3	109584	IMM
2	2011	1	17,168	17181.56	17366.47	IMM
3.1	2011	1	954	950.8259	976.3732	IMM
3.2	2011	1	9			IMM
4	2011	1	339	338.8918	343.3782	IMM
1	2011	2	107,045	106929.2	107347.9	IMM
2	2011	2	16,952	16864.13	17049.04	IMM
3.1	2011	2	944	925.1122	950.6595	IMM
3.2	2011	2	9			IMM
4	2011	2	334	331.7204	336.2068	IMM
1	2011	3	112,172	112034.6	112453.3	IMM
2	2011	3	17,999	17918.48	18103.38	IMM
3.1	2011	3	1,034	1019.632	1045.18	IMM
3.2	2011	3	9			IMM
4	2011	3	348	345.9514	350.4378	IMM
1	2011	4	109,171	109166.5	109585.2	IMM
2	2011	4	17,307	17205.23	17390.14	IMM
3.1	2011	4	977	953.5458	979.093	IMM

Indiana Michigan Power Company - Michigan Short-Term Customer Models Output Data										
revcls	YEAR	MONTH	CUST	L95	U95	JURIS				
3.2	2011	4	9			IMM				
4	2011	4	340	337.7434	342.2298	IMM				
1	2011	5	109,140	108943.4	109362.2	IMM				
2	2011	5	17,340	17193.62	17378.52	IMM				
3.1	2011	5	977	956.332	981.8793	IMM				
3.2	2011	5	9			IMM				
4	2011	5	340	338.4365	342.9229	IMM				
1	2011	6	109,123	108963.2	109381.9	IMM				
2	2011	6	17,379	17270.85	17455.76	IMM				
3.1	2011	6	970	952.7076	978.2549	IMM				
3.2	2011	6	9			IMM				
4	2011	6	339	337.5895	342.0759	IMM				
1	2011	7	108,972	108890.7	109309.4	IMM				
2	2011	7	17,310	17235.41	17420.31	IMM				
3.1	2011	7	970	958.3713	983.9186	IMM				
3.2	2011	7	9			IMM				
4	2011	7	339	337.722	342.2084	IMM				
1	2011	8	109,114	108849.8	109268.5	IMM				
2	2011	8	17,509	17277.35	17462.25	IMM				
3.1	2011	8	977	953.3369	978.8842	IMM				
3.2	2011	8	9			IMM				
4	2011	8	341	337.8979	342.3843	IMM				
1	2011	9	108,938	108925.2	109343.9	IMM				
2	2011	9	17,387	17248.4	17433.31	IMM				
3.1	2011	9	979	959.5689	985.1162	IMM				
3.2	2011	9	9			IMM				
4	2011	9	339	338.1173	342.6037	IMM				
1	2011	10	108,876	108710.6	109129.3	IMM				
2	2011	10	17,368	17275.09	17460	IMM				
3.1	2011	10	976	963.5715	989.1188	IMM				
3.2	2011	10	9			IMM				
4	2011	10	339	337.527	342.0134	IMM				
1	2011	11	109,025	108784	109202.7	IMM				

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
2	2011	11	17,367	17288.38	17473.28	IMM
3.1	2011	11	972	962.0375	987.5848	IMM
3.2	2011	11	9			IMM
4	2011	11	339	337.01	341.4964	IMM
1	2011	12	108,957	108817.4	109236.1	IMM
2	2011	12	17,350	17223.07	17407.98	IMM
3.1	2011	12	967	956.0901	981.6374	IMM
3.2	2011	12	9			IMM
4	2011	12	339	336.8682	341.3546	IMM
1	2012	1	109,081	108825.4	109244.1	IMM
2	2012	1	17,408	17244.2	17429.1	IMM
3.1	2012	1	989	954.8967	980.444	IMM
3.2	2012	1	9			IMM
4	2012	1	340	337.2052	341.6916	IMM
1	2012	2	109,153	108867	109285.7	IMM
2	2012	2	17,360	17282.75	17467.66	IMM
3.1	2012	2	971	961.9148	987.4621	IMM
3.2	2012	2	9			IMM
4	2012	2	339	337.5651	342.0515	IMM
1	2012	3	109,049	108901.4	109320.1	IMM
2	2012	3	17,346	17293.11	17478.01	IMM
3.1	2012	3	969	959.2867	984.834	IMM
3.2	2012	3	9			IMM
4	2012	3	339	336.7913	341.2777	IMM
1	2012	4	108,969	108764.3	109183	IMM
2	2012	4	17,341	17301.29	17486.19	IMM
3.1	2012	4	964	953.8231	979.3703	IMM
3.2	2012	4	9			IMM
4	2012	4	339	336.999	341.4854	IMM
1	2012	5	109,017	108740.1	109158.8	IMM
2	2012	5	17,381	17316.22	17501.12	IMM
3.1	2012	5	960	954.919	980.4663	IMM
3.2	2012	5	9			IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
4	2012	5	341	337.2522	341.7386	IMM
1	2012	6	108,904	108757.6	109176.3	IMM
2	2012	6	17,416	17333.12	17518.03	IMM
3.1	2012	6	963	949.0475	974.5948	IMM
3.2	2012	6	9			IMM
4	2012	6	338	334.4653	338.9517	IMM
1	2012	7	109,030	108649.7	109068.4	IMM
2	2012	7	17,425	17317.28	17502.19	IMM
3.1	2012	7	956	948.188	973.7352	IMM
3.2	2012	7	9			IMM
4	2012	7	345	342.0785	346.5649	IMM
1	2012	8	109,118	108867.3	109286	IMM
2	2012	8	17,455	17382.45	17567.36	IMM
3.1	2012	8	965	946.9633	972.5105	IMM
3.2	2012	8	9			IMM
4	2012	8	341	338.6343	343.1207	IMM
1	2012	9	108,946	108748	109166.7	IMM
2	2012	9	17,454	17350.79	17535.7	IMM
3.1	2012	9	971	947.9504	973.4977	IMM
3.2	2012	9	9			IMM
4	2012	9	341	338.8201	343.3065	IMM
1	2012	10	109,002	108774.4	109193.1	IMM
2	2012	10	17,456	17350.03	17534.94	IMM
3.1	2012	10	964	953.6952	979.2424	IMM
3.2	2012	10	9			IMM
4	2012	10	341	339.0139	343.5003	IMM
1	2012	11	108,982	108762.4	109181.1	IMM
2	2012	11	17,450	17354.87	17539.78	IMM
3.1	2012	11	959	944.6592	970.2065	IMM
3.2	2012	11	9			IMM
4	2012	11	341	338.8147	343.3011	IMM
1	2012	12	108,980	108711.4	109130.1	IMM
2	2012	12	17,431	17354.72	17539.62	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2012	12	958	946.9676	972.5149	IMM
3.2	2012	12	9			IMM
4	2012	12	341	338.3358	342.8221	IMM
1	2013	1	109,296	108862.1	109280.8	IMM
2	2013	1	17,501	17377.36	17562.26	IMM
3.1	2013	1	971	947.3383	972.8855	IMM
3.2	2013	1	9			IMM
4	2013	1	340	338.0792	342.5656	IMM
1	2013	2	109,178	109072.3	109491	IMM
2	2013	2	17,441	17368.02	17552.92	IMM
3.1	2013	2	958	951.5448	977.0921	IMM
3.2	2013	2	9			IMM
4	2013	2	339	337.8336	342.32	IMM
1	2013	3	109,165	108903.7	109322.4	IMM
2	2013	3	17,423	17368.36	17553.27	IMM
3.1	2013	3	963	949.2105	974.7578	IMM
3.2	2013	3	9			IMM
4	2013	3	341	337.4451	341.9315	IMM
1	2013	4	109,180	108987.4	109406.1	IMM
2	2013	4	17,439	17372	17556.9	IMM
3.1	2013	4	959	945.369	970.9162	IMM
3.2	2013	4	9			IMM
4	2013	4	341	338.117	342.6034	IMM
1	2013	5	109,031	108903.8	109322.5	IMM
2	2013	5	17,443	17389.04	17573.94	IMM
3.1	2013	5	958	948.929	974.4762	IMM
3.2	2013	5	9			IMM
4	2013	5	340	338.4484	342.9348	IMM
1	2013	6	109,093	108809.8	109228.5	IMM
2	2013	6	17,464	17404.74	17589.64	IMM
3.1	2013	6	971	943.152	968.6993	IMM
3.2	2013	6	9			IMM
4	2013	6	340	338.167	342.6534	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2013	7	109,068	108975.9	109394.6	IMM
2	2013	7	17,509	17412.43	17597.33	IMM
3.1	2013	7	962	947.1481	972.6953	IMM
3.2	2013	7	9			IMM
4	2013	7	340	337.9584	342.4448	IMM
1	2013	8	109,052	108830.9	109249.6	IMM
2	2013	8	17,516	17426.61	17611.52	IMM
3.1	2013	8	961	949.4984	975.0457	IMM
3.2	2013	8	9			IMM
4	2013	8	340	338.0224	342.5088	IMM
1	2013	9	108,990	108915.6	109334.3	IMM
2	2013	9	17,516	17431.45	17616.36	IMM
3.1	2013	9	960	945.4361	970.9833	IMM
3.2	2013	9	9			IMM
4	2013	9	340	338.2572	342.7436	IMM
1	2013	10	108,976	108791.7	109210.4	IMM
2	2013	10	17,511	17437.03	17621.94	IMM
3.1	2013	10	956	946.7208	972.268	IMM
3.2	2013	10	9			IMM
4	2013	10	357	354.1314	358.6178	IMM
1	2013	11	109,066	108786.3	109205	IMM
2	2013	11	17,523	17440.36	17625.27	IMM
3.1	2013	11	958	941.5689	967.1161	IMM
3.2	2013	11	9			IMM
4	2013	11	341	337.6254	342.1118	IMM
1	2013	12	109,240	108894.8	109313.5	IMM
2	2013	12	17,535	17439.61	17624.51	IMM
3.1	2013	12	958	944.6135	970.1608	IMM
3.2	2013	12	9			IMM
4	2013	12	342	338.4236	342.91	IMM
1	2014	1	109,268	109097	109515.7	IMM
2	2014	1	17,516	17414.15	17599.06	IMM
3.1	2014	1	960	943.5653	969.1125	IMM

Indiana Michigan Power Company - Michigan Short-Term Customer Models Output Data							
revcls	YEAR	MONTH	CUST	L95	U95	JURIS	
3.2	2014	1	9			IMM	
4	2014	1	341	339.2663	343.7526	IMM	
1	2014	2	109,199	108996.1	109414.8	IMM	
2	2014	2	17,491	17397.4	17582.3	IMM	
3.1	2014	2	957	943.834	969.3812	IMM	
3.2	2014	2	9			IMM	
4	2014	2	341	339.0356	343.522	IMM	
1	2014	3	109,302	109066.1	109484.8	IMM	
2	2014	3	17,488	17393.19	17578.09	IMM	
3.1	2014	3	960	943.4633	969.0106	IMM	
3.2	2014	3	9			IMM	
4	2014	3	339	338.9022	343.3886	IMM	
1	2014	4	109,104	109034.7	109453.4	IMM	
2	2014	4	17,465	17399.36	17584.27	IMM	
3.1	2014	4	953	940.2559	965.8032	IMM	
3.2	2014	4	10			IMM	
4	2014	4	340	337.9176	342.404	IMM	
1	2014	5	108,922	108855	109273.7	IMM	
2	2014	5	17,478	17401.87	17586.78	IMM	
3.1	2014	5	955	941.6344	967.1816	IMM	
3.2	2014	5	10			IMM	
4	2014	5	341	337.7727	342.2591	IMM	
1	2014	6	108,819	108801.3	109220	IMM	
2	2014	6	17,516	17409.56	17594.46	IMM	
3.1	2014	6	954	940.3012	965.8484	IMM	
3.2	2014	6	10			IMM	
4	2014	6	341	337.9561	342.4425	IMM	
1	2014	7	108,747	108602.6	109021.3	IMM	
2	2014	7	17,521	17424.43	17609.34	IMM	
3.1	2014	7	961	940.3095	965.8568	IMM	
3.2	2014	7	10			IMM	
4	2014	7	341	337.9264	342.4128	IMM	
1	2014	8	108,711	108662.3	109081	IMM	

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
2	2014	8	17,544	17427.89	17612.8	IMM
3.1	2014	8	959	943.4833	969.0306	IMM
3.2	2014	8	10			IMM
4	2014	8	342	338.4222	342.9086	IMM
1	2014	9	108,724	108508	108926.7	IMM
2	2014	9	17,544	17429.24	17614.15	IMM
3.1	2014	9	956	942.9976	968.5449	IMM
3.2	2014	9	10			IMM
4	2014	9	342	339.3024	343.7888	IMM
1	2014	10	108,701	108575	108993.7	IMM
2	2014	10	17,513	17429.04	17613.94	IMM
3.1	2014	10	952	940.4617	966.009	IMM
3.2	2014	10	10			IMM
4	2014	10	343	340.0207	344.5071	IMM
1	2014	11	108,741	108522.9	108941.6	IMM
2	2014	11	17,484	17434.01	17618.91	IMM
3.1	2014	11	954	938.7347	964.2819	IMM
3.2	2014	11	10			IMM
4	2014	11	343	340.5271	345.0135	IMM
1	2014	12	108,921	108614.7	109033.4	IMM
2	2014	12	17,446	17438.93	17623.83	IMM
3.1	2014	12	935	920.5523	946.0995	IMM
3.2	2014	12	10			IMM
4	2014	12	342	340.1933	344.6797	IMM
1	2015	1	109,065	108739.5	109158.2	IMM
2	2015	1	17,608	17450.15	17635.05	IMM
3.1	2015	1	965	938.9447	964.4919	IMM
3.2	2015	1	10			IMM
4	2015	1	344	339.7716	344.258	IMM
1	2015	2	109,122	108856.9	109275.6	IMM
2	2015	2	17,520	17445.1	17630	IMM
3.1	2015	2	947	944.6154	970.1626	IMM
3.2	2015	2	10			IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
4	2015	2	343	340.6586	345.145	IMM
1	2015	3	109,206	108885.1	109303.8	IMM
2	2015	3	17,533	17446.44	17631.35	IMM
3.1	2015	3	951	938.4899	964.0372	IMM
3.2	2015	3	10			IMM
4	2015	3	343	340.3748	344.8612	IMM
1	2015	4	108,928	108885.2	109303.9	IMM
2	2015	4	17,528	17442	17626.9	IMM
3.1	2015	4	943	934.9379	960.4852	IMM
3.2	2015	4	10			IMM
4	2015	4	343	340.3762	344.8626	IMM
1	2015	5	108,836	108645.7	109064.4	IMM
2	2015	5	17,515	17448.33	17633.23	IMM
3.1	2015	5	942	933.9162	959.4635	IMM
3.2	2015	5	10			IMM
4	2015	5	343	340.3593	344.8457	IMM
1	2015	6	108,787	108585.6	109004.3	IMM
2	2015	6	17,568	17462.28	17647.19	IMM
3.1	2015	6	947	930.0885	955.6357	IMM
3.2	2015	6	10			IMM
4	2015	6	343	340.4492	344.9356	IMM
1	2015	7	108,858	108511.2	108929.9	IMM
2	2015	7	17,593	17466.2	17651.11	IMM
3.1	2015	7	943	932.47	958.0173	IMM
3.2	2015	7	10			IMM
4	2015	7	343	340.878	345.3644	IMM
1	2015	8	108,851	108642	109060.7	IMM
2	2015	8	17,577	17475.63	17660.54	IMM
3.1	2015	8	939	931.7807	957.328	IMM
3.2	2015	8	10			IMM
4	2015	8	343	340.4364	344.9228	IMM
1	2015	9	108,902	108597.6	109016.3	IMM
2	2015	9	17,607	17478.13	17663.03	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2015	9	939	926.3866	951.9338	IMM
3.2	2015	9	10			IMM
4	2015	9	342	340.3916	344.878	IMM
1	2015	10	108,873	108672.8	109091.5	IMM
2	2015	10	17,589	17471.19	17656.09	IMM
3.1	2015	10	937	926.1574	951.7047	IMM
3.2	2015	10	10			IMM
4	2015	10	342	340.283	344.7694	IMM
1	2015	11	108,944	108639.6	109058.3	IMM
2	2015	11	17,583	17464.93	17649.84	IMM
3.1	2015	11	935	922.5823	948.1295	IMM
3.2	2015	11	10			IMM
4	2015	11	343	339.9681	344.4545	IMM
1	2015	12	108,989	108780.6	109199.3	IMM
2	2015	12	17,541	17455.88	17640.78	IMM
3.1	2015	12	932	924.9622	950.5095	IMM
3.2	2015	12	10			IMM
4	2015	12	342	340.3079	344.7943	IMM
1	2016	1	109,076	108788.8	109207.5	IMM
2	2016	1	17,527	17507.24	17692.14	IMM
3.1	2016	1	937	920.8302	946.3774	IMM
3.2	2016	1	10			IMM
4	2016	1	342	340.008	344.4944	IMM
1	2016	2	109,220	108932.2	109350.9	IMM
2	2016	2	17,568	17483.19	17668.09	IMM
3.1	2016	2	931	922.9551	948.5024	IMM
3.2	2016	2	10			IMM
4	2016	2	341	339.8705	344.3569	IMM
1	2016	3	109,237	109055	109473.7	IMM
2	2016	3	17,608	17489.47	17674.38	IMM
3.1	2016	3	937	921.2153	946.7626	IMM
3.2	2016	3	10			IMM
4	2016	3	343	339.4006	343.887	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2016	4	106,935	106820.7	107239.4	IMM
2	2016	4	17,162	17082.2	17267.11	IMM
3.1	2016	4	920	918.8687	944.416	IMM
3.2	2016	4	10			IMM
4	2016	4	341	340.2179	344.7043	IMM
1	2016	5	109,078	108844.8	109263.5	IMM
2	2016	5	17,580	17488.95	17673.85	IMM
3.1	2016	5	931	915.0649	940.6122	IMM
3.2	2016	5	10			IMM
4	2016	5	343	339.6883	344.1747	IMM
1	2016	6	109,117	108807	109225.7	IMM
2	2016	6	17,637	17507.43	17692.33	IMM
3.1	2016	6	931	915.1056	940.6529	IMM
3.2	2016	6	10			IMM
4	2016	6	343	339.9872	344.4736	IMM
1	2016	7	109,188	108926	109344.7	IMM
2	2016	7	17,625	17517.38	17702.28	IMM
3.1	2016	7	930	918.1822	943.7295	IMM
3.2	2016	7	10			IMM
4	2016	7	343	340.3882	344.8746	IMM
1	2016	8	109,210	108959.9	109378.6	IMM
2	2016	8	17,674	17515.04	17699.95	IMM
3.1	2016	8	931	915.1094	940.6567	IMM
3.2	2016	8	10			IMM
4	2016	8	343	340.7603	345.2467	IMM
1	2016	9	109,231	109029.1	109447.8	IMM
2	2016	9	17,670	17526.59	17711.49	IMM
3.1	2016	9	928	915.5731	941.1204	IMM
3.2	2016	9	10			IMM
4	2016	9	343	341.0019	345.4883	IMM
1	2016	10	109,112	108987.3	109406	IMM
2	2016	10	17,675	17523.57	17708.47	IMM
3.1	2016	10	929	915.6184	941.1656	IMM

Indiana Michigan Power Company - Michigan Short-Term Customer Models Output Data										
revcls	YEAR	MONTH	CUST	L95	U95	JURIS				
3.2	2016	10	10			IMM				
4	2016	10	343	340.5873	345.0737	IMM				
1	2016	11	109,312	108935.9	109354.6	IMM				
2	2016	11	17,652	17524.25	17709.15	IMM				
3.1	2016	11	931	912.8534	938.4007	IMM				
3.2	2016	11	10			IMM				
4	2016	11	343	340.7755	345.2619	IMM				
1	2016	12	109,486	109134.7	109553.4	IMM				
2	2016	12	17,653	17513.99	17698.9	IMM				
3.1	2016	12	932	915.9636	941.5109	IMM				
3.2	2016	12	10			IMM				
4	2016	12	344	340.7094	345.1958	IMM				
1	2017	1	109,599	109276.2	109694.9	IMM				
2	2017	1	17,652	17512.26	17697.17	IMM				
3.1	2017	1	936	914.7161	940.2634	IMM				
3.2	2017	1	10			IMM				
4	2017	1	344	340.8372	345.3236	IMM				
1	2017	2	109,645	109410	109828.7	IMM				
2	2017	2	17,601	17527.12	17712.03	IMM				
3.1	2017	2	950	920.2838	945.8311	IMM				
3.2	2017	2	10			IMM				
4	2017	2	344	341.2334	345.7198	IMM				
1	2017	3	109,799	109395.9	109814.6	IMM				
2	2017	3	17,611	17541.4	17726.31	IMM				
3.1	2017	3	933	923.9255	949.4727	IMM				
3.2	2017	3	10			IMM				
4	2017	3	344	341.4909	345.9773	IMM				
1	2017	4	109,567	109541.7	109960.5	IMM				
2	2017	4	17,583	17532.51	17717.41	IMM				
3.1	2017	4	925	919.8351	945.3824	IMM				
3.2	2017	4	10			IMM				
4	2017	4	344	341.6588	346.1452	IMM				
1	2017	5	109,591	109288.5	109707.2	IMM				

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
2	2017	5	17,611	17537.86	17722.76	IMM
3.1	2017	5	926	913.1332	938.6805	IMM
3.2	2017	5	10			IMM
4	2017	5	344	341.7563	346.2427	IMM
1	2017	6	109,652	109427.9	109846.6	IMM
2	2017	6	17,647	17557.55	17742.45	IMM
3.1	2017	6	924	914.644	940.1912	IMM
3.2	2017	6	10			IMM
4	2017	6	344	341.698	346.1844	IMM
1	2017	7	109,675	109437.3	109856	IMM
2	2017	7	17,638	17556.34	17741.24	IMM
3.1	2017	7	921	913.9419	939.4892	IMM
3.2	2017	7	10			IMM
4	2017	7	344	341.5002	345.9866	IMM
1	2017	8	109,696	109528.8	109947.5	IMM
2	2017	8	17,669	17573.61	17758.52	IMM
3.1	2017	8	919	909.2163	934.7636	IMM
3.2	2017	8	10			IMM
4	2017	8	344	341.41	345.8964	IMM
1	2017	9	109,790	109502.1	109920.8	IMM
2	2017	9	17,694	17574.9	17759.8	IMM
3.1	2017	9	913	907.0916	932.6388	IMM
3.2	2017	9	10			IMM
4	2017	9	344	341.5017	345.9881	IMM
1	2017	10	109,801	109556.3	109975	IMM
2	2017	10	17,627	17578.82	17763.72	IMM
3.1	2017	10	914	903.5839	929.1311	IMM
3.2	2017	10	10			IMM
4	2017	10	344	341.6164	346.1028	IMM
1	2017	11	109,868	109641.8	110060.5	IMM
2	2017	11	17,612	17574.37	17759.27	IMM
3.1	2017	11	917	900.4831	926.0303	IMM
3.2	2017	11	10			IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
4	2017	11	344	341.6866	346.173	IMM
1	2017	12	110,018	109666	110084.8	IMM
2	2017	12	17,602	17577.08	17761.99	IMM
3.1	2017	12	913	898.8144	924.3616	IMM
3.2	2017	12	10			IMM
4	2017	12	346	341.7301	346.2165	IMM
1	2018	1	110,164	109888.7	110307.4	IMM
2	2018	1	17,610	17579.27	17764.18	IMM
3.1	2018	1	913	902.0329	927.5802	IMM
3.2	2018	1	10			IMM
4	2018	1	345	342.7045	347.1909	IMM
1	2018	2	110,177	109971.9	110390.6	IMM
2	2018	2	17,649	17566.38	17751.29	IMM
3.1	2018	2	912	900.9849	926.5321	IMM
3.2	2018	2	10			IMM
4	2018	2	344	342.7193	347.2057	IMM
1	2018	3	110,151	110025.4	110444.1	IMM
2	2018	3	17,595	17571.65	17756.55	IMM
3.1	2018	3	905	899.0502	924.5974	IMM
3.2	2018	3	10			IMM
4	2018	3	346	342.2184	346.7048	IMM
1	2018	4	110,150	109851.9	110270.6	IMM
2	2018	4	18,997	18904.55	19089.45	IMM
3.1	2018	4	940	930.3831	955.9304	IMM
3.2	2018	4	10			IMM
4	2018	4	345	342.7624	347.2488	IMM
1	2018	5	110,092	110021.4	110440.1	IMM
2	2018	5	19,856	19763.55	19948.45	IMM
3.1	2018	5	950	940.4279	965.9752	IMM
3.2	2018	5	10			IMM
4	2018	5	345	342.692	347.1784	IMM
1	2018	6	110,076	109831	110249.7	IMM
2	2018	6	17,668	17589.9	17774.81	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2018	6	900	893.6491	919.1963	IMM
3.2	2018	6	10			IMM
4	2018	6	345	342.9233	347.4097	IMM
1	2018	7	110,282	109946.9	110365.6	IMM
2	2018	7	17,690	17589.6	17774.51	IMM
3.1	2018	7	903	891.0419	916.5892	IMM
3.2	2018	7	10			IMM
4	2018	7	345	342.3482	346.8346	IMM
1	2018	8	110,229	110079.2	110497.9	IMM
2	2018	8	17,713	17601.44	17786.35	IMM
3.1	2018	8	901	889.6668	915.2141	IMM
3.2	2018	8	10			IMM
4	2018	8	345	342.3908	346.8772	IMM
1	2018	9	110,159	110031.6	110450.3	IMM
2	2018	9	17,682	17611.48	17796.38	IMM
3.1	2018	9	898	888.2198	913.7671	IMM
3.2	2018	9	10			IMM
4	2018	9	345	343.0203	347.5067	IMM
1	2018	10	110,284	109977	110395.7	IMM
2	2018	10	17,796	17593.68	17778.58	IMM
3.1	2018	10	901	886.1877	911.735	IMM
3.2	2018	10	10			IMM
4	2018	10	345	342.5986	347.085	IMM
1	2018	11	110,168	110121.4	110540.1	IMM
2	2018	11	17,701	17591.65	17776.55	IMM
3.1	2018	11	905	886.197	911.7443	IMM
3.2	2018	11	10			IMM
4	2018	11	345	342.4751	346.9615	IMM
1	2018	12	110,212	110008.1	110426.8	IMM
2	2018	12	17,671	17591.04	17775.95	IMM
3.1	2018	12	900	888.4287	913.9759	IMM
3.2	2018	12	10			IMM
4	2018	12	345	342.7615	347.2479	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2019	1	110,331	110122	110540.7	IMM
2	2019	1	17,688	17595.95	17780.85	IMM
3.1	2019	1	900	887.6901	913.2373	IMM
3.2	2019	1				IMM
4	2019	1	345	342.7972	347.2836	IMM
1	2019	2	110,353	110057.1	110649.2	IMM
2	2019	2	17,703	17610.2	17795.11	IMM
3.1	2019	2	898	884.2786	912.135	IMM
3.2	2019	2				IMM
4	2019	2	345	342.5995	347.566	IMM
1	2019	3	110,416	110089.2	110743.3	IMM
2	2019	3	17,689	17596.16	17781.07	IMM
3.1	2019	3	898	883.4846	913.4727	IMM
3.2	2019	3				IMM
4	2019	3	345	342.2821	347.6862	IMM
1	2019	4	110,420	110065.1	110775.8	IMM
2	2019	4	17,710	17617.7	17802.61	IMM
3.1	2019	4	898	882.93	913.4624	IMM
3.2	2019	4				IMM
4	2019	4	345	342.0509	347.8597	IMM
1	2019	5	110,368	109996.9	110738.2	IMM
2	2019	5	17,716	17623.39	17808.3	IMM
3.1	2019	5	896	880.5227	912.2903	IMM
3.2	2019	5				IMM
4	2019	5	345	341.9557	348.1428	IMM
1	2019	6	110,395	110010.1	110780.8	IMM
2	2019	6	17,718	17625.58	17810.48	IMM
3.1	2019	6	896	879.3172	912.2737	IMM
3.2	2019	6				IMM
4	2019	6	345	341.7192	348.2628	IMM
1	2019	7	110,434	110031.4	110836.6	IMM
2	2019	7	17,727	17634.63	17819.53	IMM
3.1	2019	7	895	878.368	912.4722	IMM

Indiana Michigan Power Company - Michigan Short-Term Customer Models Output Data							
revcls	YEAR	MONTH	CUST	L95	U95	JURIS	
3.2	2019	7				IMM	
4	2019	7	345	341.5118	348.3934	IMM	
1	2019	8	110,409	109989.4	110827.7	IMM	
2	2019	8	17,737	17644.06	17828.96	IMM	
3.1	2019	8	894	876.0233	911.2376	IMM	
3.2	2019	8				IMM	
4	2019	8	345	341.4974	348.453	IMM	
1	2019	9	110,457	110018.6	110895.5	IMM	
2	2019	9	17,730	17637.2	17822.1	IMM	
3.1	2019	9	892	873.4598	909.7503	IMM	
3.2	2019	9				IMM	
4	2019	9	345	341.4709	348.4609	IMM	
1	2019	10	110,481	110023.7	110937.4	IMM	
2	2019	10	17,766	17674	17858.9	IMM	
3.1	2019	10	892	873.0333	910.369	IMM	
3.2	2019	10				IMM	
4	2019	10	345	341.4488	348.5357	IMM	
1	2019	11	110,418	109944.5	110891.5	IMM	
2	2019	11	17,740	17647.83	17832.74	IMM	
3.1	2019	11	891	871.7909	909.2278	IMM	
3.2	2019	11				IMM	
4	2019	11	345	341.4099	348.5925	IMM	
1	2019	12	110,475	109984.9	110964.2	IMM	
2	2019	12	17,734	17641.2	17826.1	IMM	
3.1	2019	12	890	870.9891	908.9286	IMM	
3.2	2019	12				IMM	
4	2019	12	345	341.341	348.618	IMM	
1	2020	1	110,472	109947.1	110996.7	IMM	
2	2020	1	17,741	17644.82	17837.95	IMM	
3.1	2020	1	889	869.5945	908.03	IMM	
3.2	2020	1				IMM	
4	2020	1	345	341.3107	348.6809	IMM	
1	2020	2	110,482	109924	111039.5	IMM	

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
2	2020	2	17,748	17651.61	17844.75	IMM
3.1	2020	2	888	868.2238	907.3689	IMM
3.2	2020	2				IMM
4	2020	2	345	341.276	348.7383	IMM
1	2020	3	110,528	109923.3	111132.5	IMM
2	2020	3	17,746	17649.74	17842.88	IMM
3.1	2020	3	887	867.2782	906.9932	IMM
3.2	2020	3				IMM
4	2020	3	345	341.2026	348.8039	IMM
1	2020	4	110,539	109890.4	111186.7	IMM
2	2020	4	17,755	17658.73	17851.87	IMM
3.1	2020	4	886	866.0587	906.3357	IMM
3.2	2020	4				IMM
4	2020	4	345	341.1308	348.8839	IMM
1	2020	5	110,548	109869.5	111226.9	IMM
2	2020	5	17,759	17662.86	17855.99	IMM
3.1	2020	5	885	864.7876	905.6188	IMM
3.2	2020	5				IMM
4	2020	5	345	341.0626	348.9425	IMM
1	2020	6	110,562	109854.3	111270.1	IMM
2	2020	6	17,763	17666.01	17859.15	IMM
3.1	2020	6	885	863.8535	905.2316	IMM
3.2	2020	6				IMM
4	2020	6	345	340.9997	349.0045	IMM
1	2020	7	110,568	109833.7	111301.7	IMM
2	2020	7	17,768	17671.15	17864.29	IMM
3.1	2020	7	884	862.9786	904.8963	IMM
3.2	2020	7				IMM
4	2020	7	345	340.9454	349.0731	IMM
1	2020	8	110,574	109814.6	111332.9	IMM
2	2020	8	17,773	17676.49	17869.62	IMM
3.1	2020	8	883	861.6071	904.0576	IMM
3.2	2020	8				IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
4	2020	8	345	340.8825	349.1313	IMM
1	2020	9	110,584	109798.8	111369.6	IMM
2	2020	9	17,773	17676.91	17870.05	IMM
3.1	2020	9	882	860.4203	903.6412	IMM
3.2	2020	9				IMM
4	2020	9	345	340.8218	349.1899	IMM
1	2020	10	110,593	109782.1	111403.6	IMM
2	2020	10	17,787	17690.43	17883.56	IMM
3.1	2020	10	881	859.1597	902.9963	IMM
3.2	2020	10				IMM
4	2020	10	345	340.7713	349.2459	IMM
1	2020	11	110,599	109763	111434.8	IMM
2	2020	11	17,782	17685.02	17878.16	IMM
3.1	2020	11	880	858.0439	902.4877	IMM
3.2	2020	11				IMM
4	2020	11	345	340.7211	349.2976	IMM
1	2020	12	110,616	109755.2	111475.9	IMM
2	2020	12	17,782	17685.43	17878.57	IMM
3.1	2020	12	879	856.9251	901.9204	IMM
3.2	2020	12				IMM
4	2020	12	345	340.6714	349.3532	IMM
1	2021	1	110,610	109721.6	111499.2	IMM
2	2021	1	17,787	17689.9	17883.76	IMM
3.1	2021	1	878	855.7127	901.2792	IMM
3.2	2021	1				IMM
4	2021	1	345	340.6212	349.4072	IMM
1	2021	2	110,631	109714.3	111547.1	IMM
2	2021	2	17,791	17694.44	17888.3	IMM
3.1	2021	2	878	854.5694	900.7	IMM
3.2	2021	2				IMM
4	2021	2	345	340.5697	349.4586	IMM
1	2021	3	110,636	109689.9	111582.8	IMM
2	2021	3	17,793	17696.09	17889.95	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
3.1	2021	3	877	853.4426	900.1304	IMM
3.2	2021	3				IMM
4	2021	3	345	340.5212	349.5118	IMM
1	2021	4	110,644	109668.8	111619.9	IMM
2	2021	4	17,798	17701.29	17895.16	IMM
3.1	2021	4	876	852.2404	899.479	IMM
3.2	2021	4				IMM
4	2021	4	345	340.473	349.5641	IMM
1	2021	5	110,659	109653	111665.9	IMM
2	2021	5	17,802	17704.95	17898.81	IMM
3.1	2021	5	875	851.0284	898.8113	IMM
3.2	2021	5				IMM
4	2021	5	345	340.4231	349.6161	IMM
1	2021	6	110,671	109634.2	111707	IMM
2	2021	6	17,805	17708.39	17902.26	IMM
3.1	2021	6	874	849.9373	898.2584	IMM
3.2	2021	6				IMM
4	2021	6	345	340.3738	349.6685	IMM
1	2021	7	110,685	109621.1	111748	IMM
2	2021	7	17,809	17712.35	17906.22	IMM
3.1	2021	7	873	848.8016	897.6069	IMM
3.2	2021	7				IMM
4	2021	7	345	340.3251	349.7193	IMM
1	2021	8	110,692	109602	111781.6	IMM
2	2021	8	17,813	17716.46	17910.32	IMM
3.1	2021	8	872	847.6907	897.0021	IMM
3.2	2021	8				IMM
4	2021	8	345	340.2772	349.7698	IMM
1	2021	9	110,697	109581.4	111812	IMM
2	2021	9	17,816	17719.08	17912.94	IMM
3.1	2021	9	871	846.5492	896.3615	IMM
3.2	2021	9				IMM
4	2021	9	345	340.2303	349.8202	IMM

Indiana Michigan Power Company - Michigan
Short-Term Customer Models Output Data

revcls	YEAR	MONTH	CUST	L95	U95	JURIS
1	2021	10	110,708	109567.4	111848	IMM
2	2021	10	17,822	17725.56	17919.43	IMM
3.1	2021	10	871	845.4125	895.7306	IMM
3.2	2021	10				IMM
4	2021	10	345	340.1833	349.8696	IMM
1	2021	11	110,712	109546.7	111876.8	IMM
2	2021	11	17,823	17726.43	17920.29	IMM
3.1	2021	11	870	844.3008	895.1142	IMM
3.2	2021	11				IMM
4	2021	11	345	340.1368	349.9186	IMM
1	2021	12	110,721	109531.9	111910.5	IMM
2	2021	12	17,826	17728.96	17922.83	IMM
3.1	2021	12	869	843.1761	894.4799	IMM
3.2	2021	12				IMM
4	2021	12	345	340.0913	349.9671	IMM

SHORT-TERM LARGE INDUSTRIAL ENERGY

Indiana Michigan Power Company-Indiana and Michigan
Large Industrial Energy

**SEE CONFIDENTIAL SECTION FOR SHORT-TERM
LARGE INDUSTRIAL ENERGY INPUT DATA, MODELS AND FORECAST**

SHORT-TERM RETAIL ENERGY

Indiana Michigan Power Company-Indiana and Michigan
Retail Energy
Input Data Glossary

cust-customers

revcls-revenue class (1-residential; 2-commercial; 3.1-small industrial; 4-other retail)

time-trend

kWh-energy (kilowatt-hours)

MET_DAYS-Billing days

bcdd65-billing cycle cooling degree days (base 65)

bhdd55-billing cycle heating degree days (base 55)

days-billing days

usage-kWh per customer

com1-commercial binary variable

com2-commercial binary variable

com3-commercial binary variable

ind1-industrial binary variable

ind2-industrial binary variable

ind3-industrial binary variable

ind4-industrial binary variable

ind5-industrial binary variable

ind6-industrial binary variable

ind7-industrial binary variable

or1-other retail binary variable

or2-other retail binary variable

or3-other retail binary variable

or4-other retail binary variable

or5-other retail binary variable

or6-other retail binary variable

or7-other retail binary variable

or8-other retail binary variable

or9-other retail binary variable

or10-other retail binary variable

or11-other retail binary variable

or12-other retail binary variable

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2009	1	5.67E+08	398950	31177847	0	910.7919	32.90808	9-Jan	1,421	0
2	2009	1	3.95E+08	51751	18481855	0	910.7919	33.2019	9-Jan	7,624	0
3.1	2009	1	2.56E+08	4227	11859229	0	910.7919	31.75219	9-Jan	0	0
4	2009	1	6808929	1711	339320.8	0	910.7919	31.50005	9-Jan	0	0
1	2009	2	5.14E+08	398158	28634110	0	1077.432	29.75782	9-Feb	1,291	0
2	2009	2	3.67E+08	51263	17657026	0	1077.432	30.07368	9-Feb	7,156	0
3.1	2009	2	2.53E+08	4186	11216507	0	1077.432	29.08331	9-Feb	0	0
4	2009	2	5633689	1710	329583.8	0	1077.432	28.42145	9-Feb	0	0
1	2009	3	4.16E+08	399368	24087271	0	650.769	29.16982	9-Mar	1,042	0
2	2009	3	3.33E+08	51712	16555528	0	650.769	29.30321	9-Mar	6,431	0
3.1	2009	3	2.46E+08	4270	11281742	0	650.769	30.07453	9-Mar	0	0
4	2009	3	5549914	1704	331878.2	0	650.769	30.68027	9-Mar	0	0
1	2009	4	3.45E+08	396632	21427507	0.539976	336.814	29.72085	9-Apr	869	0
2	2009	4	3.28E+08	51334	16372666	0.539976	336.814	29.82029	9-Apr	6,392	0
3.1	2009	4	2.50E+08	4190	10601847	0.539976	336.814	30.13948	9-Apr	0	0
4	2009	4	4807947	1692	329067.2	0.539976	336.814	30.01885	9-Apr	0	0
1	2009	5	2.92E+08	396399	19258009	27.03152	129.9869	29.29867	9-May	736	0
2	2009	5	3.24E+08	51235	17154324	27.03152	129.9869	29.59052	9-May	6,328	0
3.1	2009	5	2.40E+08	4176	11130903	27.03152	129.9869	30.11954	9-May	0	0
4	2009	5	4333022	1696	325574	27.03152	129.9869	30.65014	9-May	0	0
1	2009	6	3.04E+08	396231	19961572	68.13513	14.02301	30.08545	9-Jun	766	0
2	2009	6	3.51E+08	51334	18262463	68.13513	14.02301	30.39665	9-Jun	6,835	0
3.1	2009	6	2.54E+08	4186	11357402	68.13513	14.02301	29.94946	9-Jun	0	0
4	2009	6	4013439	1692	329678.1	68.13513	14.02301	30.14506	9-Jun	0	0
1	2009	7	3.88E+08	396185	24788868	192.5586	0	30.93488	9-Jul	979	0
2	2009	7	3.86E+08	51383	19779979	192.5586	0	31.191	9-Jul	7,521	0
3.1	2009	7	2.66E+08	4197	11828606	192.5586	0	31.20839	9-Jul	0	0
4	2009	7	3855975	1705	255512.4	192.5586	0	31.08945	9-Jul	0	0
1	2009	8	3.63E+08	396403	23572916	154.6785	0	28.79276	9-Aug	916	0
2	2009	8	3.68E+08	51269	19199333	154.6785	0	29.39459	9-Aug	7,177	0
3.1	2009	8	2.61E+08	4180	12011547	154.6785	0	29.96356	9-Aug	0	0
4	2009	8	5038066	1702	418308	154.6785	0	30.64218	9-Aug	0	0
1	2009	9	3.51E+08	396466	22871103	111.0387	0	29.9606	9-Sep	885	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
2	2009	9	3.79E+08	51360	19637572	111.0387	0	30.40969	7,383	0	0
3.1	2009	9	2.77E+08	4168	11932945	111.0387	0	30.41314	0	0	0
4	2009	9	5133223	1700	336177	111.0387	0	30.157	0	0	0
1	2009	10	3.10E+08	395723	20448369	33.6094	74.95846	30.08392	782	0	0
2	2009	10	3.48E+08	51518	18288424	33.6094	74.95846	30.32331	6,757	0	0
3.1	2009	10	2.62E+08	4197	11885004	33.6094	74.95846	30.28194	0	0	0
4	2009	10	3442224	1698	307677.5	33.6094	74.95846	30.75794	0	0	0
1	2009	11	3.19E+08	396774	20983979	0	203.9309	29.04381	804	0	0
2	2009	11	3.21E+08	51454	16969209	0	203.9309	29.29135	6,232	0	0
3.1	2009	11	2.53E+08	4148	11454121	0	203.9309	29.71698	0	0	0
4	2009	11	8572155	1711	366871	0	203.9309	30.14684	0	0	0
1	2009	12	4.33E+08	397853	27550430	0	475.4732	32.25029	1,088	0	0
2	2009	12	3.64E+08	51250	18539380	0	475.4732	32.46761	7,096	0	0
3.1	2009	12	2.66E+08	4066	11142446	0	475.4732	32.0612	0	0	0
4	2009	12	6741358	1702	342553.1	0	475.4732	31.28253	0	0	0
1	2010	1	5.59E+08	398337	35296471	0	901.5796	33.10301	1,403	0	0
2	2010	1	3.91E+08	51470	19706249	0	901.5796	33.51539	7,591	0	0
3.1	2010	1	2.58E+08	4135	11478416	0	901.5796	31.99337	0	0	0
4	2010	1	3976310	1712	3144413	0	901.5796	31.76057	0	0	0
1	2010	2	4.74E+08	390581	30300896	0	924.2422	29.22261	1,214	0	0
2	2010	2	3.43E+08	50297	18018061	0	924.2422	29.37588	6,817	0	0
3.1	2010	2	2.54E+08	3873	11305689	0	924.2422	28.62334	0	0	0
4	2010	2	5955156	1668	342978.9	0	924.2422	29.5727	0	0	0
1	2010	3	4.15E+08	407289	26936807	0	702.1976	28.99479	1,019	0	0
2	2010	3	3.41E+08	53090	18094942	0	702.1976	29.05637	6,421	0	0
3.1	2010	3	2.61E+08	4428	11849638	0	702.1976	30.12098	0	0	0
4	2010	3	5536630	1738	340016.9	0	702.1976	29.35533	0	0	0
1	2010	4	3.17E+08	397687	21320114	8.492347	235.8549	30.28088	797	0	0
2	2010	4	3.29E+08	51556	17509751	8.492347	235.8549	30.58312	6,383	0	0
3.1	2010	4	2.67E+08	4122	12096254	8.492347	235.8549	30.18896	0	0	0
4	2010	4	7013805	1690	362659.6	8.492347	235.8549	30.41021	0	0	0
1	2010	5	2.74E+08	396663	18786873	19.65185	55.25752	29.37813	691	0	0
2	2010	5	3.19E+08	51454	17437189	19.65185	55.25752	29.61134	6,205	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2010	5	2.68E+08	4104	12535312	19.65185	55.25752	29.93309	10-May	0	0
4	2010	5	4264117	1685	330755.4	19.65185	55.25752	30.72559	10-May	0	0
1	2010	6	3.62E+08	396948	24010436	180.2374	11.25768	30.3779	10-Jun	911	0
2	2010	6	3.75E+08	51582	19829113	180.2374	11.25768	30.89624	10-Jun	7,271	0
3.1	2010	6	2.84E+08	4114	12987207	180.2374	11.25768	30.26387	10-Jun	0	0
4	2010	6	3962817	1683	333481.5	180.2374	11.25768	30.17001	10-Jun	0	0
1	2010	7	4.57E+08	396963	29573997	323.4782	0	30.28354	10-Jul	1,152	0
2	2010	7	3.99E+08	51609	20856649	323.4782	0	30.65903	10-Jul	7,741	0
3.1	2010	7	2.90E+08	4150	13340845	323.4782	0	30.89783	10-Jul	0	0
4	2010	7	4185305	1683	334835.8	323.4782	0	30.95547	10-Jul	0	0
1	2010	8	4.85E+08	396564	31198322	363.7801	0	29.51407	10-Aug	1,223	0
2	2010	8	4.03E+08	51461	21115228	363.7801	0	29.62907	10-Aug	7,822	0
3.1	2010	8	2.94E+08	4083	13670919	363.7801	0	30.34056	10-Aug	0	0
4	2010	8	4597254	1676	333901.4	363.7801	0	30.74592	10-Aug	0	0
1	2010	9	4.15E+08	396560	27038675	222.1428	0	30.06926	10-Sep	1,046	0
2	2010	9	3.96E+08	51485	20765174	222.1428	0	30.4521	10-Sep	7,694	0
3.1	2010	9	3.01E+08	4055	13385822	222.1428	0	30.54257	10-Sep	0	0
4	2010	9	5016772	1670	334456.6	222.1428	0	30.08355	10-Sep	0	0
1	2010	10	2.93E+08	396783	19873166	64.81346	25.88611	29.14124	10-Oct	738	0
2	2010	10	3.80E+08	51653	18420922	64.81346	25.88611	29.73727	10-Oct	7,354	1
3.1	2010	10	2.71E+08	4139	13262198	64.81346	25.88611	29.43491	10-Oct	0	0
4	2010	10	3279731	1666	303818.4	64.81346	25.88611	30.55488	10-Oct	0	0
1	2010	11	3.01E+08	397393	20367256	5.808831	200.3474	29.18733	10-Nov	759	0
2	2010	11	2.78E+08	51671	17426769	5.808831	200.3474	29.36382	10-Nov	5,375	-1
3.1	2010	11	2.64E+08	4115	12564113	5.808831	200.3474	30.09189	10-Nov	0	0
4	2010	11	8419895	1679	364216.6	5.808831	200.3474	30.28251	10-Nov	0	0
1	2010	12	4.42E+08	397635	28794003	0	650.9817	32.22601	10-Dec	1,113	0
2	2010	12	3.53E+08	50853	18179710	0	650.9817	32.48578	10-Dec	6,951	0
3.1	2010	12	2.86E+08	3983	13056472	0	650.9817	31.60737	10-Dec	0	0
4	2010	12	3865076	1663	304958.7	0	650.9817	31.51469	10-Dec	0	0
1	2011	1	5.49E+08	399898	35136321	0	958.1625	32.48943	11-Jan	1,373	0
2	2011	1	3.79E+08	52113	19548614	0	958.1625	32.779	11-Jan	7,264	0
3.1	2011	1	2.74E+08	4111	12427158	0	958.1625	32.4554	11-Jan	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
4	2011	1	6624647	1682	346204.1	0	958.1625	31.38378	11-Jan	0	0
1	2011	2	4.84E+08	389652	31149728	0	1033.906	29.64333	11-Feb	1,242	0
2	2011	2	3.45E+08	50389	18275421	0	1033.906	30.13169	11-Feb	6,854	0
3.1	2011	2	2.61E+08	3809	11797535	0	1033.906	29.88926	11-Feb	0	0
4	2011	2	8177895	1622	372692.7	0	1033.906	29.14358	11-Feb	0	0
1	2011	3	4.07E+08	407730	26815061	0	705.4375	28.79986	11-Mar	997	0
2	2011	3	3.38E+08	53630	19022188	0	705.4375	28.76799	11-Mar	6,309	0
3.1	2011	3	2.86E+08	4434	12946628	0	705.4375	28.71836	11-Mar	0	0
4	2011	3	5429380	1703	336123.6	0	705.4375	30.63035	11-Mar	0	0
1	2011	4	3.33E+08	397409	22574132	2.094452	408.5162	28.08779	11-Apr	837	0
2	2011	4	3.04E+08	51641	16814378	2.094452	408.5162	28.15104	11-Apr	5,885	0
3.1	2011	4	2.61E+08	4091	10783201	2.094452	408.5162	29.12356	11-Apr	0	0
4	2011	4	4653162	1659	333466	2.094452	408.5162	29.74721	11-Apr	0	0
1	2011	5	3.09E+08	397102	21537044	17.09923	126.1089	30.33995	11-May	778	0
2	2011	5	3.25E+08	51581	18282825	17.09923	126.1089	30.33188	11-May	6,303	0
3.1	2011	5	2.71E+08	4096	13077337	17.09923	126.1089	30.47886	11-May	0	0
4	2011	5	4237423	1660	334139.8	17.09923	126.1089	30.89433	11-May	0	0
1	2011	6	3.55E+08	396490	24343346	154.744	17.62285	30.92565	11-Jun	896	0
2	2011	6	3.69E+08	51639	20440056	154.744	17.62285	31.40888	11-Jun	7,155	0
3.1	2011	6	2.91E+08	4092	13520989	154.744	17.62285	30.78683	11-Jun	0	0
4	2011	6	3927985	1660	334281.6	154.744	17.62285	30.37011	11-Jun	0	0
1	2011	7	4.33E+08	396222	29056814	286.3181	0	30.34881	11-Jul	1,092	0
2	2011	7	3.87E+08	51408	20991677	286.3181	0	30.60969	11-Jul	7,521	0
3.1	2011	7	2.80E+08	4070	13439457	286.3181	0	30.20642	11-Jul	0	0
4	2011	7	4114658	1657	334735.1	286.3181	0	30.90887	11-Jul	0	0
1	2011	8	5.06E+08	396967	32675984	410.578	0	29.85361	11-Aug	1,275	0
2	2011	8	4.25E+08	51812	22452173	410.578	0	30.29994	11-Aug	8,195	0
3.1	2011	8	3.08E+08	4106	14403542	410.578	0	30.90604	11-Aug	0	0
4	2011	8	4546830	1655	334444.8	410.578	0	30.87904	11-Aug	0	0
1	2011	9	3.85E+08	396809	26091014	193.115	2.699879	30.25134	11-Sep	971	0
2	2011	9	3.81E+08	51594	20918606	193.115	2.699879	30.60312	11-Sep	7,382	0
3.1	2011	9	3.02E+08	4097	14004437	193.115	2.699879	30.44951	11-Sep	0	0
4	2011	9	2962360	1521	84599.15	193.115	2.699879	30.15659	11-Sep	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2011	10	2.85E+08	396623	19819946	25.98429	32.44764	29.46648	718	0	0
2	2011	10	3.28E+08	51627	18176029	25.98429	32.44764	29.53942	6,354	0	0
3.1	2011	10	2.77E+08	4105	13385176	25.98429	32.44764	29.89417		0	0
4	2011	10	7628908	1792	583061	25.98429	32.44764	30.56004		0	0
1	2011	11	3.02E+08	397135	20801085	0.801782	182.5773	28.56242	761	0	0
2	2011	11	3.13E+08	51612	17372755	0.801782	182.5773	29.00759	6,065	0	0
3.1	2011	11	2.70E+08	4085	12670121	0.801782	182.5773	29.95447		0	0
4	2011	11	5893394	1663	329403.2	0.801782	182.5773	29.85544		0	0
1	2011	12	4.19E+08	397750	27808508	0	431.997	32.23633	1,053	0	0
2	2011	12	3.57E+08	51520	18805094	0	431.997	32.50554	6,924	0	0
3.1	2011	12	2.82E+08	4076	12928682	0	431.997	31.23422		0	0
4	2011	12	3780515	1662	357071.1	0	431.997	32.7062		0	0
1	2012	1	4.84E+08	398367	32077127	0	648.7237	32.54088	1,215	0	0
2	2012	1	3.62E+08	51820	19411758	0	648.7237	32.66238	6,990	0	0
3.1	2012	1	2.74E+08	4109	12798831	0	648.7237	31.74264		0	0
4	2012	1	9246394	1669	324450.9	0	648.7237	31.15323		0	0
1	2012	2	4.26E+08	398530	28526585	0	741.3213	28.92828	1,070	0	0
2	2012	2	3.30E+08	51699	18341479	0	741.3213	29.16926	6,382	0	0
3.1	2012	2	2.73E+08	4090	12807933	0	741.3213	29.16688		0	0
4	2012	2	5451823	1655	335158.2	0	741.3213	29.09142		0	0
1	2012	3	3.77E+08	398516	25499820	6.577887	523.1711	29.28281	946	0	0
2	2012	3	3.28E+08	51680	18390172	6.577887	523.1711	29.42378	6,355	0	0
3.1	2012	3	2.74E+08	4090	13227350	6.577887	523.1711	30.15763		0	0
4	2012	3	4037662	1495	183533.7	6.577887	523.1711	30.55339		0	0
1	2012	4	2.96E+08	398109	20764436	21.23905	138.4138	30.32463	745	0	0
2	2012	4	3.26E+08	51727	18262507	21.23905	138.4138	30.63405	6,302	0	0
3.1	2012	4	2.83E+08	4081	13331299	21.23905	138.4138	30.39941		0	0
4	2012	4	4982458	1817	356907.2	21.23905	138.4138	30.39913		0	0
1	2012	5	2.88E+08	397982	20196137	27.09697	104.2644	29.5721	724	0	0
2	2012	5	3.25E+08	51727	18301713	27.09697	104.2644	29.83363	6,282	0	0
3.1	2012	5	2.84E+08	4092	13112564	27.09697	104.2644	30.29377		0	0
4	2012	5	4192650	1655	327262.1	27.09697	104.2644	30.75425		0	0
1	2012	6	3.55E+08	397392	24110547	153.6149	3.468935	30.43267	893	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
2	2012	6	3.65E+08	51706	19987044	153.6149	3.468935	30.77658	12-Jun	7,068	0
3.1	2012	6	2.96E+08	4083	13621286	153.6149	3.468935	30.5005	12-Jun	0	0
4	2012	6	3858232	1655	326576.5	153.6149	3.468935	30.14844	12-Jun	0	0
1	2012	7	4.83E+08	397536	32952413	370.6034	0.327258	30.42258	12-Jul	1,215	0
2	2012	7	4.12E+08	51783	23123768	370.6034	0.327258	30.68082	12-Jul	7,966	0
3.1	2012	7	2.96E+08	4082	14401739	370.6034	0.327258	30.78909	12-Jul	0	0
4	2012	7	4076943	1654	328443.6	370.6034	0.327258	30.98034	12-Jul	0	0
1	2012	8	4.76E+08	397325	31713900	322.6437	0	29.62463	12-Aug	1,198	0
2	2012	8	3.94E+08	51727	21407389	322.6437	0	29.79774	12-Aug	7,626	0
3.1	2012	8	2.99E+08	4096	13781505	322.6437	0	30.42744	12-Aug	0	0
4	2012	8	4499283	1656	327625.6	322.6437	0	30.81659	12-Aug	0	0
1	2012	9	3.75E+08	397621	25475970	158.442	2.241718	29.97642	12-Sep	942	0
2	2012	9	3.78E+08	51857	20615113	158.442	2.241718	30.47526	12-Sep	7,286	0
3.1	2012	9	2.95E+08	4097	13400494	158.442	2.241718	30.23663	12-Sep	0	0
4	2012	9	4908302	1649	327790.3	158.442	2.241718	30.06258	12-Sep	0	0
1	2012	10	2.83E+08	398003	20315078	23.41531	74.66393	29.12643	12-Oct	711	0
2	2012	10	3.24E+08	51960	18832387	23.41531	74.66393	29.29533	12-Oct	6,244	0
3.1	2012	10	2.74E+08	4098	13928842	23.41531	74.66393	30.09347	12-Oct	0	0
4	2012	10	5575962	1644	336864.8	23.41531	74.66393	30.75283	12-Oct	0	0
1	2012	11	3.18E+08	398380	22034931	2.290806	276.5331	29.45621	12-Nov	799	0
2	2012	11	3.14E+08	51861	17783151	2.290806	276.5331	29.51446	12-Nov	6,051	0
3.1	2012	11	2.65E+08	4077	12461091	2.290806	276.5331	29.79878	12-Nov	0	0
4	2012	11	5925909	1657	330062.4	2.290806	276.5331	29.96818	12-Nov	0	0
1	2012	12	4.00E+08	398898	27033879	0	467.799	31.28146	12-Dec	1,002	0
2	2012	12	3.36E+08	51856	18511393	0	467.799	31.48155	12-Dec	6,478	0
3.1	2012	12	2.67E+08	4061	12580066	0	467.799	31.17967	12-Dec	0	0
4	2012	12	6482057	1655	334239.7	0	467.799	31.10941	12-Dec	0	0
1	2013	1	4.87E+08	400484	32873866	0	736.0361	32.31112	13-Jan	1,215	0
2	2013	1	3.53E+08	52024	19781534	0	736.0361	32.39405	13-Jan	6,780	0
3.1	2013	1	2.63E+08	4102	13121428	0	736.0361	31.85693	13-Jan	0	0
4	2013	1	6437834	1654	344875.3	0	736.0361	31.26441	13-Jan	0	0
1	2013	2	4.54E+08	399800	30786649	0	846.4366	29.1477	13-Feb	1,135	0
2	2013	2	3.38E+08	51828	19967918	0	846.4366	29.39973	13-Feb	6,524	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2013	2	2.75E+08	4070	13879040	0	846.4366	28.75163	13-Feb	0	0
4	2013	2	3731903	1720	179138.7	0	846.4366	29.50555	13-Feb	0	0
1	2013	3	4.37E+08	400332	33498928	0	763.2313	29.43792	13-Mar	1,091	0
2	2013	3	3.34E+08	51131	20926529	0	763.2313	30.00161	13-Mar	6,525	0
3.1	2013	3	2.57E+08	4042	16351125	0	763.2313	29.81975	13-Mar	0	0
4	2013	3	5310092	1537	413475.7	0	763.2313	29.47493	13-Mar	0	0
1	2013	4	3.73E+08	398819	32678014	0	522.3693	29.80336	13-Apr	936	0
2	2013	4	3.21E+08	52645	21878634	0	522.3693	29.94736	13-Apr	6,093	0
3.1	2013	4	2.80E+08	4109	17472601	0	522.3693	30.34892	13-Apr	0	0
4	2013	4	4616079	1666	407717.1	0	522.3693	29.93948	13-Apr	0	0
1	2013	5	2.93E+08	398904	20467396	22.05719	134.274	29.30523	13-May	735	0
2	2013	5	3.16E+08	51912	16115683	22.05719	134.274	29.26549	13-May	6,082	0
3.1	2013	5	2.77E+08	4058	10310703	22.05719	134.274	30.2844	13-May	0	0
4	2013	5	4140424	1640	341036.7	22.05719	134.274	30.79163	13-May	0	0
1	2013	6	3.19E+08	398478	26228251	117.142	13.7612	30.36742	13-Jun	800	0
2	2013	6	3.52E+08	51943	21286320	117.142	13.7612	30.85308	13-Jun	6,778	0
3.1	2013	6	2.91E+08	4057	14400682	117.142	13.7612	30.13859	13-Jun	0	0
4	2013	6	3812213	1639	375392.7	117.142	13.7612	30.14542	13-Jun	0	0
1	2013	7	3.98E+08	398887	32080710	237.6712	0	29.95881	13-Jul	998	0
2	2013	7	3.78E+08	52135	22586396	237.6712	0	30.47293	13-Jul	7,252	0
3.1	2013	7	2.89E+08	4067	13469097	237.6712	0	30.85917	13-Jul	0	0
4	2013	7	4037796	1641	376966.6	237.6712	0	30.92545	13-Jul	0	0
1	2013	8	3.81E+08	398652	30232932	187.4207	0	29.40521	13-Aug	955	0
2	2013	8	3.65E+08	52210	21754849	187.4207	0	29.5931	13-Aug	6,984	0
3.1	2013	8	2.77E+08	4066	14590779	187.4207	0	30.36065	13-Aug	0	0
4	2013	8	4456682	1637	375852.9	187.4207	0	30.75151	13-Aug	0	0
1	2013	9	3.84E+08	399294	30962246	183.9681	0.638153	29.96426	13-Sep	963	0
2	2013	9	3.83E+08	52010	22761160	183.9681	0.638153	30.42667	13-Sep	7,355	0
3.1	2013	9	3.10E+08	4067	14684481	183.9681	0.638153	30.18355	13-Sep	0	0
4	2013	9	4916747	1636	377967.3	183.9681	0.638153	30.06996	13-Sep	0	0
1	2013	10	2.99E+08	401970	24847503	67.34971	21.66448	29.28588	13-Oct	743	0
2	2013	10	3.45E+08	52329	21224108	67.34971	21.66448	29.71928	13-Oct	6,584	0
3.1	2013	10	2.86E+08	4072	14593687	67.34971	21.66448	30.29958	13-Oct	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
4	2013	10	5605816	1657	377954.2	67.34971	21.66448	30.84523	13-Oct	0	0
1	2013	11	3.15E+08	399990	26061519	6.005185	267.7135	29.32715	13-Nov	787	0
2	2013	11	3.17E+08	51975	19754643	6.005185	267.7135	29.60297	13-Nov	6,103	0
3.1	2013	11	2.74E+08	4040	14076220	6.005185	267.7135	29.7569	13-Nov	0	0
4	2013	11	5905532	1646	378110.5	6.005185	267.7135	29.85761	13-Nov	0	0
1	2013	12	4.41E+08	401313	35298865	0	668.4573	31.71817	13-Dec	1,099	0
2	2013	12	3.51E+08	52042	21984113	0	668.4573	31.98676	13-Dec	6,736	0
3.1	2013	12	2.81E+08	4037	14164036	0	668.4573	31.47126	13-Dec	0	0
4	2013	12	6462146	1645	384509.4	0	668.4573	30.83266	13-Dec	0	0
1	2014	1	5.61E+08	401548	44605927	0	955.4136	33.434	14-Jan	1,397	0
2	2014	1	3.78E+08	52083	21173373	0	955.4136	33.6726	14-Jan	7,263	0
3.1	2014	1	2.67E+08	4027	13027178	0	955.4136	32.31093	14-Jan	0	0
4	2014	1	6454505	1645	389809.3	0	955.4136	31.49068	14-Jan	0	0
1	2014	2	5.17E+08	400169	42169181	0	1173.956	29.13406	14-Feb	1,292	0
2	2014	2	3.49E+08	51782	21715059	0	1173.956	29.43466	14-Feb	6,732	0
3.1	2014	2	2.74E+08	4035	13361295	0	1173.956	28.8529	14-Feb	0	0
4	2014	2	5385218	1634	381665	0	1173.956	28.20898	14-Feb	0	0
1	2014	3	4.63E+08	401582	37771217	0	1016.005	29.30648	14-Mar	1,154	0
2	2014	3	3.40E+08	51989	20661068	0	1016.005	29.46746	14-Mar	6,534	0
3.1	2014	3	2.81E+08	4037	13459395	0	1016.005	30.1408	14-Mar	0	0
4	2014	3	5345169	1640	378686.5	0	1016.005	30.80123	14-Mar	0	0
1	2014	4	3.60E+08	401090	30311899	0	524.4474	29.40092	14-Apr	898	0
2	2014	4	3.17E+08	52009	19984650	0	524.4474	29.68095	14-Apr	6,093	0
3.1	2014	4	2.77E+08	4022	13448855	0	524.4474	30.01394	14-Apr	0	0
4	2014	4	4591352	1615	375628.5	0	524.4474	29.99502	14-Apr	0	0
1	2014	5	2.88E+08	399637	24885836	15.56112	128.4652	30.03949	14-May	720	0
2	2014	5	3.18E+08	51964	20483420	15.56112	128.4652	30.54725	14-May	6,117	0
3.1	2014	5	2.84E+08	4031	14228262	15.56112	128.4652	30.54781	14-May	0	0
4	2014	5	4153436	1622	375508.6	15.56112	128.4652	30.88524	14-May	0	0
1	2014	6	3.26E+08	399273	27530825	119.6455	26.03338	30.22476	14-Jun	817	0
2	2014	6	3.50E+08	51965	21274357	119.6455	26.03338	30.59727	14-Jun	6,731	0
3.1	2014	6	2.93E+08	4026	14346486	119.6455	26.03338	30.47263	14-Jun	0	0
4	2014	6	3812377	1621	372121.2	119.6455	26.03338	30.19052	14-Jun	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2014	7	3.81E+08	399030	31660371	223.7791	0	30.21233	955	0	0
2	2014	7	3.69E+08	51929	21039588	223.7791	0	30.48507	7,099	0	0
3.1	2014	7	2.93E+08	4019	15317420	223.7791	0	30.7724		0	0
4	2014	7	3999504	1621	372739.6	223.7791	0	30.90341		0	0
1	2014	8	3.44E+08	400060	30639818	143.6008	0	29.16375	860	0	0
2	2014	8	3.56E+08	52185	21774277	143.6008	0	29.59379	6,816	0	0
3.1	2014	8	2.93E+08	4017	16109273	143.6008	0	30.12341		0	0
4	2014	8	4416886	1598	377847.8	143.6008	0	30.76043		0	0
1	2014	9	3.72E+08	400110	32921089	179.452	1.669016	30.1596	931	0	0
2	2014	9	3.79E+08	52103	21776744	179.452	1.669016	30.56767	7,274	0	0
3.1	2014	9	3.03E+08	4020	15432613	179.452	1.669016	30.53807		0	0
4	2014	9	4880269	1594	380351.5	179.452	1.669016	30.08798		0	0
1	2014	10	2.74E+08	399724	25064270	18.75189	46.68336	29.1641	684	0	0
2	2014	10	3.24E+08	52046	21045121	18.75189	46.68336	29.49175	6,219	0	0
3.1	2014	10	2.74E+08	4007	15877038	18.75189	46.68336	30.20978		0	0
4	2014	10	5634498	1590	385911.4	18.75189	46.68336	30.74234		0	0
1	2014	11	3.07E+08	401121	27293458	0.359984	283.9291	29.14049	765	0	0
2	2014	11	3.14E+08	52198	19689953	0.359984	283.9291	29.38935	6,017	0	1
3.1	2014	11	2.88E+08	4015	15248249	0.359984	283.9291	29.75701		0	0
4	2014	11	5894645	1610	384033.9	0.359984	283.9291	29.96202		0	0
1	2014	12	4.49E+08	402095	38590176	0	669.6027	32.32132	1,117	0	0
2	2014	12	3.62E+08	52232	21413823	0	669.6027	32.40126	6,934	0	1
3.1	2014	12	3.02E+08	4000	15078060	0	669.6027	31.66169		0	0
4	2014	12	6352813	1600	385968.8	0	669.6027	31.26621		0	0
1	2015	1	4.99E+08	401913	45471331	0	832.7572	32.47388	1,243	0	0
2	2015	1	3.66E+08	52067	24028973	0	832.7572	32.84056	7,021	0	1
3.1	2015	1	2.66E+08	4001	15657365	0	832.7572	31.94164		0	0
4	2015	1	6388683	1595	409031	0	832.7572	31.50046		0	0
1	2015	2	4.61E+08	402958	42361410	0	1002.441	28.94419	1,144	0	0
2	2015	2	3.42E+08	52256	23207118	0	1002.441	29.37211	6,542	0	1
3.1	2015	2	2.79E+08	4000	16145085	0	1002.441	29.1103		0	0
4	2015	2	5368200	1600	405516.6	0	1002.441	29.11917		0	0
1	2015	3	4.51E+08	402956	41561255	0	1039.323	29.14108	1,118	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
2	2015	3	3.41E+08	52356	23392034	0	1039.323	29.41439	15-Mar	6,509	0
3.1	2015	3	2.80E+08	4047	16304468	0	1039.323	29.92394	15-Mar	0	0
4	2015	3	5295502	1604	397627.9	0	1039.323	30.74743	15-Mar	0	0
1	2015	4	3.35E+08	401923	29427487	0	429.0844	30.36002	15-Apr	832	0
2	2015	4	3.20E+08	52244	20256110	0	429.0844	30.51839	15-Apr	6,127	0
3.1	2015	4	2.83E+08	4032	14428213	0	429.0844	30.38103	15-Apr	0	0
4	2015	4	4584471	1589	373623.3	0	429.0844	30.14937	15-Apr	0	0
1	2015	5	2.74E+08	400265	26503311	30.66408	113.3786	29.58189	15-May	685	0
2	2015	5	3.12E+08	52098	21609405	30.66408	113.3786	29.85122	15-May	5,983	0
3.1	2015	5	2.81E+08	3966	16201924	30.66408	113.3786	30.26237	15-May	0	0
4	2015	5	4092864	1582	387649.5	30.66408	113.3786	30.82108	15-May	0	0
1	2015	6	3.13E+08	401405	29510955	127.0416	11.48676	29.96975	15-Jun	779	0
2	2015	6	3.50E+08	52451	23590979	127.0416	11.48676	30.47345	15-Jun	6,678	0
3.1	2015	6	3.05E+08	4010	16103458	127.0416	11.48676	30.46321	15-Jun	0	0
4	2015	6	3786213	1591	386071.2	127.0416	11.48676	30.05663	15-Jun	0	0
1	2015	7	3.59E+08	400827	32871994	166.1653	0.081815	30.51202	15-Jul	895	0
2	2015	7	3.63E+08	52410	23831318	166.1653	0.081815	30.80667	15-Jul	6,924	0
3.1	2015	7	3.01E+08	4000	16775995	166.1653	0.081815	30.61328	15-Jul	0	0
4	2015	7	3975032	1587	385603.6	166.1653	0.081815	31.01019	15-Jul	0	0
1	2015	8	3.89E+08	400209	34407265	232.1732	0	28.74827	15-Aug	972	0
2	2015	8	3.70E+08	52323	23924978	232.1732	0	29.16114	15-Aug	7,078	0
3.1	2015	8	3.02E+08	3988	16430612	232.1732	0	30.21366	15-Aug	0	0
4	2015	8	4391419	1589	384193.3	232.1732	0	30.70815	15-Aug	0	0
1	2015	9	3.65E+08	401046	31995904	181.6282	0	30.0121	15-Sep	911	0
2	2015	9	3.78E+08	52261	23491485	181.6282	0	30.72259	15-Sep	7,240	0
3.1	2015	9	3.10E+08	3998	14731114	181.6282	0	30.41182	15-Sep	0	0
4	2015	9	4843610	1588	370282.5	181.6282	0	30.13536	15-Sep	0	0
1	2015	10	2.85E+08	401182	26950874	60.1664	21.81175	29.17932	15-Oct	711	0
2	2015	10	3.30E+08	52397	22674785	60.1664	21.81175	29.27099	15-Oct	6,290	0
3.1	2015	10	2.87E+08	4040	16607976	60.1664	21.81175	30.20484	15-Oct	0	0
4	2015	10	5491090	1590	393073.4	60.1664	21.81175	30.75135	15-Oct	0	0
1	2015	11	2.69E+08	401443	24271922	1.587202	140.8191	28.872	15-Nov	670	0
2	2015	11	3.06E+08	52347	21392481	1.587202	140.8191	29.28756	15-Nov	5,845	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2015	11	2.72E+08	4014	15685513	1.587202	140.8191	29.57321	15-Nov	0	0
4	2015	11	5823333	1604	389582.4	1.587202	140.8191	29.91521	15-Nov	0	0
1	2015	12	3.79E+08	402404	34352792	0	394.0678	33.03394	15-Dec	942	0
2	2015	12	3.44E+08	52289	22463457	0	394.0678	33.15091	15-Dec	6,578	1
3.1	2015	12	2.99E+08	3985	16264760	0	394.0678	31.74462	15-Dec	0	0
4	2015	12	6420427	1602	401303.8	0	394.0678	31.34976	15-Dec	0	0
1	2016	1	4.45E+08	403030	41363392	0	597.2296	32.41205	16-Jan	1,105	0
2	2016	1	3.45E+08	52256	23449891	0	597.2296	32.5546	16-Jan	6,611	1
3.1	2016	1	2.73E+08	3984	16167489	0	597.2296	31.83755	16-Jan	0	0
4	2016	1	3665152	1632	355546.3	0	597.2296	31.38833	16-Jan	0	0
1	2016	2	4.25E+08	403633	39466256	0	829.9919	29.28773	16-Feb	1,054	0
2	2016	2	3.33E+08	52639	23244923	0	829.9919	29.60618	16-Feb	6,324	1
3.1	2016	2	2.80E+08	4010	16283150	0	829.9919	29.3957	16-Feb	0	0
4	2016	2	8022910	1598	438925.4	0	829.9919	29.70994	16-Feb	0	0
1	2016	3	3.59E+08	403392	33292789	0	567.3837	29.15903	16-Mar	891	0
2	2016	3	3.18E+08	52733	21729651	0	567.3837	29.57219	16-Mar	6,031	1
3.1	2016	3	2.85E+08	4012	15462572	0	567.3837	30.34932	16-Mar	0	0
4	2016	3	5257410	1594	384454.8	0	567.3837	30.79059	16-Mar	0	0
1	2016	4	3.10E+08	403060	30832671	0	306.1172	30.14423	16-Apr	770	0
2	2016	4	3.07E+08	52488	22835703	0	306.1172	30.22668	16-Apr	5,854	1
3.1	2016	4	2.86E+08	3992	18450649	0	306.1172	30.08432	16-Apr	0	0
4	2016	4	4530091	1591	403608.1	0	306.1172	30.06158	16-Apr	0	0
1	2016	5	2.63E+08	402383	25414687	1.849008	123.4254	29.04565	16-May	653	0
2	2016	5	3.01E+08	52510	20968054	1.849008	123.4254	29.41288	16-May	5,737	1
3.1	2016	5	2.81E+08	3977	15072013	1.849008	123.4254	30.31935	16-May	0	0
4	2016	5	4074395	1589	375945.3	1.849008	123.4254	30.73719	16-May	0	0
1	2016	6	3.28E+08	402195	30934899	134.0285	21.81175	30.41032	16-Jun	815	0
2	2016	6	3.47E+08	52616	23726860	134.0285	21.81175	30.6601	16-Jun	6,594	1
3.1	2016	6	3.01E+08	3977	16470463	134.0285	21.81175	30.4648	16-Jun	0	0
4	2016	6	3742771	1588	380319.6	134.0285	21.81175	30.16319	16-Jun	0	0
1	2016	7	3.96E+08	402165	37495180	224.9245	0	30.13233	16-Jul	983	0
2	2016	7	3.76E+08	52464	26156864	224.9245	0	30.63837	16-Jul	7,167	1
3.1	2016	7	3.00E+08	3968	18061641	224.9245	0	30.66395	16-Jul	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
4	2016	7	3948025	1585	392803.7	224.9245	0	30.91446	16-Jul	0	0
1	2016	8	4.47E+08	401988	41738375	332.3797	0	29.10743	16-Aug	1,113	0
2	2016	8	3.94E+08	52687	27346591	332.3797	0	29.58771	16-Aug	7,486	0
3.1	2016	8	3.06E+08	4003	17609500	332.3797	0	30.34372	16-Aug	0	0
4	2016	8	4399849	1588	391318.2	332.3797	0	30.76645	16-Aug	0	0
1	2016	9	4.11E+08	402696	38054866	249.9761	0	30.08355	16-Sep	1,019	0
2	2016	9	3.95E+08	52589	26780268	249.9761	0	30.39568	16-Sep	7,503	0
3.1	2016	9	3.11E+08	3982	17078648	249.9761	0	30.40149	16-Sep	0	0
4	2016	9	4835559	1588	387520.9	249.9761	0	30.12508	16-Sep	0	0
1	2016	10	3.05E+08	402791	30335203	97.53927	7.445121	29.5023	16-Oct	757	0
2	2016	10	3.46E+08	52593	25618491	97.53927	7.445121	29.65784	16-Oct	6,582	0
3.1	2016	10	2.94E+08	3978	18719703	97.53927	7.445121	30.07292	16-Oct	0	0
4	2016	10	5504450	1588	408576.9	97.53927	7.445121	30.78579	16-Oct	0	0
1	2016	11	2.66E+08	403396	27185742	16.41199	122.2145	29.14588	16-Nov	658	0
2	2016	11	3.08E+08	52599	23549603	16.41199	122.2145	29.36888	16-Nov	5,847	0
3.1	2016	11	2.84E+08	3983	18899638	16.41199	122.2145	29.73386	16-Nov	0	0
4	2016	11	5816435	1597	417852.1	16.41199	122.2145	29.92472	16-Nov	0	0
1	2016	12	4.03E+08	405121	39560096	0.654516	543.8702	32.61891	16-Dec	995	0
2	2016	12	3.51E+08	52722	25745869	0.654516	543.8702	33.16261	16-Dec	6,654	0
3.1	2016	12	2.99E+08	3980	19478436	0.654516	543.8702	31.86131	16-Dec	0	0
4	2016	12	6422849	1606	435576.9	0.654516	543.8702	31.60133	16-Dec	0	0
1	2017	1	4.83E+08	405414	42584280	0	805.3003	32.53383	17-Jan	1,192	0
2	2017	1	3.62E+08	52791	24601032	0	805.3003	32.82328	17-Jan	6,856	0
3.1	2017	1	2.84E+08	3982	15631447	0	805.3003	32.08231	17-Jan	0	0
4	2017	1	6331045	1596	399818.9	0	805.3003	31.21111	17-Jan	0	0
1	2017	2	3.82E+08	405081	36697696	0	615.9651	29.05241	17-Feb	944	0
2	2017	2	3.20E+08	52733	22724976	0	615.9651	29.24517	17-Feb	6,067	0
3.1	2017	2	2.83E+08	3974	15664326	0	615.9651	28.99741	17-Feb	0	0
4	2017	2	5324879	1590	389719.7	0	615.9651	28.23817	17-Feb	0	0
1	2017	3	3.37E+08	405127	32564714	0	470.7444	28.86387	17-Mar	831	0
2	2017	3	3.09E+08	53051	20389644	0	470.7444	29.23256	17-Mar	5,829	0
3.1	2017	3	2.82E+08	4002	13432637	0	470.7444	30.09092	17-Mar	0	0
4	2017	3	5252880	1601	368111	0	470.7444	30.72565	17-Mar	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2017	4	3.04E+08	404607	30409285	4.17254	332.0197	29.44835	751	0	0
2	2017	4	3.05E+08	53006	22126786	4.17254	332.0197	29.60801	5,751	0	1
3.1	2017	4	2.77E+08	3976	15912533	4.17254	332.0197	29.52669		0	0
4	2017	4	4.611824	1602	388729.6	4.17254	332.0197	29.94519		0	0
1	2017	5	2.57E+08	404265	26011804	27.57149	86.59248	28.75287	635	0	0
2	2017	5	3.01E+08	52960	21969094	27.57149	86.59248	29.00095	5,680	0	1
3.1	2017	5	2.83E+08	3989	16205302	27.57149	86.59248	30.25278		0	0
4	2017	5	3948384	1585	370991.2	27.57149	86.59248	30.67837		0	0
1	2017	6	3.03E+08	403913	30540480	105.4262	16.96833	30.03898	751	0	0
2	2017	6	3.37E+08	52959	24355737	105.4262	16.96833	30.38639	6,358	0	1
3.1	2017	6	2.98E+08	3988	17172022	105.4262	16.96833	30.47166		0	0
4	2017	6	3711304	1583	382263	105.4262	16.96833	30.11598		0	0
1	2017	7	3.82E+08	404134	38301641	230.946	0	30.46918	945	0	0
2	2017	7	3.67E+08	52962	26251664	230.946	0	30.70934	6,925	0	1
3.1	2017	7	3.03E+08	3974	17801701	230.946	0	30.44357		0	0
4	2017	7	3938814	1595	388074.1	230.946	0	30.96056		0	0
1	2017	8	3.88E+08	403912	38952538	215.7612	0	29.30113	959	0	0
2	2017	8	3.67E+08	52994	26642771	215.7612	0	29.90559	6,933	0	1
3.1	2017	8	3.03E+08	3976	17889785	215.7612	0	30.38446		0	0
4	2017	8	4383317	1582	389915.1	215.7612	0	30.79867		0	0
1	2017	9	3.28E+08	404614	35409309	104.0517	0	30.11519	810	0	0
2	2017	9	3.51E+08	53020	27459928	104.0517	0	30.32797	6,621	0	1
3.1	2017	9	3.04E+08	3969	20900945	104.0517	0	30.32407		0	0
4	2017	9	4830065	1580	416133.1	104.0517	0	30.09839		0	0
1	2017	10	3.05E+08	404720	32356675	109.4024	3.992548	29.59425	754	0	0
2	2017	10	3.43E+08	53046	26767075	109.4024	3.992548	29.84771	6,475	0	1
3.1	2017	10	3.00E+08	3977	19429048	109.4024	3.992548	30.19857		0	0
4	2017	10	5466954	1580	456166.2	109.4024	3.992548	30.81476		0	0
1	2017	11	2.86E+08	405439	31518967	11.79765	238.293	28.92288	705	0	0
2	2017	11	3.04E+08	53054	24959567	11.79765	238.293	29.11642	5,728	0	1
3.1	2017	11	2.86E+08	3975	20541031	11.79765	238.293	29.64745		0	0
4	2017	11	7790344	1592	545089.9	11.79765	238.293	29.64706		0	0
1	2017	12	3.99E+08	406353	40539873	0	506.3337	32.48718	982	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2	
2	2017	12	3.44E+08	53130	25185332	0	506.3337	33.02691	17-Dec	6,474	0	1
3.1	2017	12	3.05E+08	3962	17695458	0	506.3337	31.86725	17-Dec	0	0	0
4	2017	12	3696034	1589	322079.4	0	506.3337	31.73342	17-Dec	0	0	0
1	2018	1	5.21E+08	406945	53934867	0	1011.931	32.57177	18-Jan	1,281	0	0
2	2018	1	3.68E+08	53206	28254034	0	1011.931	32.71088	18-Jan	6,920	0	1
3.1	2018	1	2.90E+08	3975	18457766	0	1011.931	32.00895	18-Jan	0	0	0
4	2018	1	7201741	1591	576981.5	0	1011.931	31.18379	18-Jan	0	0	0
1	2018	2	4.19E+08	407175	43665188	0	845.6021	29.07943	18-Feb	1,030	0	0
2	2018	2	3.29E+08	53190	25864242	0	845.6021	29.28761	18-Feb	6,178	0	1
3.1	2018	2	2.88E+08	3966	19067343	0	845.6021	28.88593	18-Feb	0	0	0
4	2018	2	5327409	1578	454599.7	0	845.6021	28.26681	18-Feb	0	0	0
1	2018	3	3.64E+08	406942	39744590	0	583.3539	29.0724	18-Mar	895	0	0
2	2018	3	3.11E+08	53287	25676707	0	583.3539	29.2183	18-Mar	5,840	0	1
3.1	2018	3	2.85E+08	3954	21687935	0	583.3539	30.00415	18-Mar	0	0	0
4	2018	3	4670273	1579	376053.8	0	583.3539	30.42078	18-Mar	0	0	0
1	2018	4	3.52E+08	406491	39257481	0.425435	514.8424	30.06595	18-Apr	867	0	0
2	2018	4	3.16E+08	53174	26250438	0.425435	514.8424	30.34839	18-Apr	5,936	0	1
3.1	2018	4	2.89E+08	3956	21652346	0.425435	514.8424	30.38528	18-Apr	0	0	0
4	2018	4	5021607	1575	555581.3	0.425435	514.8424	30.41086	18-Apr	0	0	0
1	2018	5	2.79E+08	406165	30289284	23.61167	176.703	29.33466	18-May	687	0	0
2	2018	5	3.09E+08	53243	24728484	23.61167	176.703	29.66603	18-May	5,806	0	1
3.1	2018	5	2.88E+08	3959	17796425	23.61167	176.703	30.34872	18-May	0	0	0
4	2018	5	4022067	1572	429194.3	23.61167	176.703	30.77799	18-May	0	0	0
1	2018	6	3.47E+08	406100	35992438	187.3389	1.865371	30.49777	18-Jun	855	0	0
2	2018	6	3.58E+08	53202	27087779	187.3389	1.865371	30.77577	18-Jun	6,724	0	1
3.1	2018	6	3.01E+08	3953	17656853	187.3389	1.865371	30.25933	18-Jun	0	0	0
4	2018	6	2222490	1400	-279715	187.3389	1.865371	30.83168	18-Jun	0	0	0
1	2018	7	4.22E+08	406187	45338665	299.8993	0	30.02488	18-Jul	1,040	0	0
2	2018	7	3.82E+08	53384	29778814	299.8993	0	30.50743	18-Jul	7,156	0	1
3.1	2018	7	3.09E+08	3995	19405657	299.8993	0	30.80719	18-Jul	0	0	0
4	2018	7	3831620	1739	423798.1	299.8993	0	30.52509	18-Jul	0	0	0
1	2018	8	3.99E+08	406454	44201135	251.5796	0	29.51035	18-Aug	982	0	0
2	2018	8	3.72E+08	53327	29323394	251.5796	0	29.67383	18-Aug	6,979	0	1

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
4	2019	4	4			2.728241	392.5706	30.0596	19-Apr		0	0
1	2019	5	5			19.20732	124.844	29.44534	19-May		0	0
2	2019	5	5			19.20732	124.844	29.67528	19-May		0	1
3.1	2019	5	5			19.20732	124.844	30.28347	19-May		0	0
4	2019	5	5			19.20732	124.844	30.71902	19-May		0	0
1	2019	6	6			103.2848	17.45267	30.41145	19-Jun		0	0
2	2019	6	6			103.2848	17.45267	30.77744	19-Jun		0	1
3.1	2019	6	6			103.2848	17.45267	30.44366	19-Jun		0	0
4	2019	6	6			103.2848	17.45267	30.30629	19-Jun		0	0
1	2019	7	7			238.4282	0.216536	30.31346	19-Jul		0	0
2	2019	7	7			238.4282	0.216536	30.73952	19-Jul		0	1
3.1	2019	7	7			238.4282	0.216536	31.11121	19-Jul		0	0
4	2019	7	7			238.4282	0.216536	30.78519	19-Jul		0	0
1	2019	8	8			250.3753	0	29.19002	19-Aug		0	0
2	2019	8	8			250.3753	0	29.52774	19-Aug		0	1
3.1	2019	8	8			250.3753	0	30.39433	19-Aug		0	0
4	2019	8	8			250.3753	0	30.68602	19-Aug		0	0
1	2019	9	9			177.4044	0.775056	30.14328	19-Sep		0	0
2	2019	9	9			177.4044	0.775056	30.54335	19-Sep		0	1
3.1	2019	9	9			177.4044	0.775056	30.53602	19-Sep		0	0
4	2019	9	9			177.4044	0.775056	30.15991	19-Sep		0	0
1	2019	10	10			53.11726	43.12334	29.31484	19-Oct		0	0
2	2019	10	10			53.11726	43.12334	29.54394	19-Oct		0	1
3.1	2019	10	10			53.11726	43.12334	30.08033	19-Oct		0	0
4	2019	10	10			53.11726	43.12334	30.69767	19-Oct		0	0
1	2019	11	11			5.085045	230.7257	29.06101	19-Nov		0	0
2	2019	11	11			5.085045	230.7257	29.3371	19-Nov		0	1
3.1	2019	11	11			5.085045	230.7257	29.76307	19-Nov		0	0
4	2019	11	11			5.085045	230.7257	29.92531	19-Nov		0	0
1	2019	12	12			0.065452	547.7798	32.11298	19-Dec		0	0
2	2019	12	12			0.065452	547.7798	32.36207	19-Dec		0	1
3.1	2019	12	12			0.065452	547.7798	31.72421	19-Dec		0	0
4	2019	12	12			0.065452	547.7798	31.37133	19-Dec		0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2020	1	1			0	808.4071	32.66916	20-Jan		0	0
2	2020	1	1			0	808.4071	32.91864	20-Jan		0	1
3.1	2020	1	1			0	808.4071	31.96895	20-Jan		0	0
4	2020	1	1			0	808.4071	31.43161	20-Jan		0	0
1	2020	2	2			0	875.7508	29.32145	20-Feb		0	0
2	2020	2	2			0	875.7508	29.64724	20-Feb		0	1
3.1	2020	2	2			0	875.7508	29.05454	20-Feb		0	0
4	2020	2	2			0	875.7508	28.48411	20-Feb		0	0
1	2020	3	3			0.327258	703.8083	29.16874	20-Mar		0	0
2	2020	3	3			0.327258	703.8083	29.39377	20-Mar		0	1
3.1	2020	3	3			0.327258	703.8083	30.03925	20-Mar		0	0
4	2020	3	3			0.327258	703.8083	30.13594	20-Mar		0	0
1	2020	4	4			2.728241	392.5706	29.6841	20-Apr		0	0
2	2020	4	4			2.728241	392.5706	29.92865	20-Apr		0	1
3.1	2020	4	4			2.728241	392.5706	29.99533	20-Apr		0	0
4	2020	4	4			2.728241	392.5706	30.0596	20-Apr		0	0
1	2020	5	5			19.20732	124.844	29.44534	20-May		0	0
2	2020	5	5			19.20732	124.844	29.67528	20-May		0	1
3.1	2020	5	5			19.20732	124.844	30.28347	20-May		0	0
4	2020	5	5			19.20732	124.844	30.71902	20-May		0	0
1	2020	6	6			103.2848	17.45267	30.41145	20-Jun		0	0
2	2020	6	6			103.2848	17.45267	30.77744	20-Jun		0	1
3.1	2020	6	6			103.2848	17.45267	30.44366	20-Jun		0	0
4	2020	6	6			103.2848	17.45267	30.30629	20-Jun		0	0
1	2020	7	7			238.4282	0.216536	30.31346	20-Jul		0	0
2	2020	7	7			238.4282	0.216536	30.73952	20-Jul		0	1
3.1	2020	7	7			238.4282	0.216536	31.11121	20-Jul		0	0
4	2020	7	7			238.4282	0.216536	30.78519	20-Jul		0	0
1	2020	8	8			250.3753	0	29.19002	20-Aug		0	0
2	2020	8	8			250.3753	0	29.52774	20-Aug		0	1
3.1	2020	8	8			250.3753	0	30.39433	20-Aug		0	0
4	2020	8	8			250.3753	0	30.68602	20-Aug		0	0
1	2020	9	9			177.4044	0.775056	30.14328	20-Sep		0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
2	2020	9	9			177.4044	0.775056	30.54335	20-Sep	0	1
3.1	2020	9	9			177.4044	0.775056	30.53602	20-Sep	0	0
4	2020	9	9			177.4044	0.775056	30.15991	20-Sep	0	0
1	2020	10	10			53.11726	43.12334	29.31484	20-Oct	0	0
2	2020	10	10			53.11726	43.12334	29.54394	20-Oct	0	1
3.1	2020	10	10			53.11726	43.12334	30.08033	20-Oct	0	0
4	2020	10	10			53.11726	43.12334	30.69767	20-Oct	0	0
1	2020	11	11			5.085045	230.7257	29.06101	20-Nov	0	0
2	2020	11	11			5.085045	230.7257	29.3371	20-Nov	0	1
3.1	2020	11	11			5.085045	230.7257	29.76307	20-Nov	0	0
4	2020	11	11			5.085045	230.7257	29.92531	20-Nov	0	0
1	2020	12	12			0.065452	547.7798	32.11298	20-Dec	0	0
2	2020	12	12			0.065452	547.7798	32.36207	20-Dec	0	1
3.1	2020	12	12			0.065452	547.7798	31.72421	20-Dec	0	0
4	2020	12	12			0.065452	547.7798	31.37133	20-Dec	0	0
1	2021	1	1			0	808.4071	32.66916	21-Jan	0	0
2	2021	1	1			0	808.4071	32.91864	21-Jan	0	1
3.1	2021	1	1			0	808.4071	31.96895	21-Jan	0	0
4	2021	1	1			0	808.4071	31.43161	21-Jan	0	0
1	2021	2	2			0	875.7508	29.32145	21-Feb	0	0
2	2021	2	2			0	875.7508	29.64724	21-Feb	0	1
3.1	2021	2	2			0	875.7508	29.05454	21-Feb	0	0
4	2021	2	2			0	875.7508	28.48411	21-Feb	0	0
1	2021	3	3			0.327258	703.8083	29.16874	21-Mar	0	0
2	2021	3	3			0.327258	703.8083	29.39377	21-Mar	0	1
3.1	2021	3	3			0.327258	703.8083	30.03925	21-Mar	0	0
4	2021	3	3			0.327258	703.8083	30.13594	21-Mar	0	0
1	2021	4	4			2.728241	392.5706	29.6841	21-Apr	0	0
2	2021	4	4			2.728241	392.5706	29.92865	21-Apr	0	1
3.1	2021	4	4			2.728241	392.5706	29.99533	21-Apr	0	0
4	2021	4	4			2.728241	392.5706	30.0596	21-Apr	0	0
1	2021	5	5			19.20732	124.844	29.44534	21-May	0	0
2	2021	5	5			19.20732	124.844	29.67528	21-May	0	1

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
3.1	2021	5	5			19.20732	124.844	30.28347	21-May		0	0
4	2021	5	5			19.20732	124.844	30.71902	21-May		0	0
1	2021	6	6			103.2848	17.45267	30.41145	21-Jun		0	0
2	2021	6	6			103.2848	17.45267	30.77744	21-Jun		0	1
3.1	2021	6	6			103.2848	17.45267	30.44366	21-Jun		0	0
4	2021	6	6			103.2848	17.45267	30.30629	21-Jun		0	0
1	2021	7	7			238.4282	0.216536	30.31346	21-Jul		0	0
2	2021	7	7			238.4282	0.216536	30.73952	21-Jul		0	1
3.1	2021	7	7			238.4282	0.216536	31.11121	21-Jul		0	0
4	2021	7	7			238.4282	0.216536	30.78519	21-Jul		0	0
1	2021	8	8			250.3753	0	29.19002	21-Aug		0	0
2	2021	8	8			250.3753	0	29.52774	21-Aug		0	1
3.1	2021	8	8			250.3753	0	30.39433	21-Aug		0	0
4	2021	8	8			250.3753	0	30.68602	21-Aug		0	0
1	2021	9	9			177.4044	0.775056	30.14328	21-Sep		0	0
2	2021	9	9			177.4044	0.775056	30.54335	21-Sep		0	1
3.1	2021	9	9			177.4044	0.775056	30.53602	21-Sep		0	0
4	2021	9	9			177.4044	0.775056	30.15991	21-Sep		0	0
1	2021	10	10			53.11726	43.12334	29.31484	21-Oct		0	0
2	2021	10	10			53.11726	43.12334	29.54394	21-Oct		0	1
3.1	2021	10	10			53.11726	43.12334	30.08033	21-Oct		0	0
4	2021	10	10			53.11726	43.12334	30.69767	21-Oct		0	0
1	2021	11	11			5.085045	230.7257	29.06101	21-Nov		0	0
2	2021	11	11			5.085045	230.7257	29.3371	21-Nov		0	1
3.1	2021	11	11			5.085045	230.7257	29.76307	21-Nov		0	0
4	2021	11	11			5.085045	230.7257	29.92531	21-Nov		0	0
1	2021	12	12			0.065452	547.7798	32.11298	21-Dec		0	0
2	2021	12	12			0.065452	547.7798	32.36207	21-Dec		0	1
3.1	2021	12	12			0.065452	547.7798	31.72421	21-Dec		0	0
4	2021	12	12			0.065452	547.7798	31.37133	21-Dec		0	0
1	2022	1	1			0	808.4071	32.66916	22-Jan		0	0
2	2022	1	1			0	808.4071	32.91864	22-Jan		0	1
3.1	2022	1	1			0	808.4071	31.96895	22-Jan		0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
4	2022	1	1			0	808.4071	31.43161	22-Jan		0	0
1	2022	2	2			0	875.7508	29.32145	22-Feb		0	0
2	2022	2	2			0	875.7508	29.64724	22-Feb		0	1
3.1	2022	2	2			0	875.7508	29.05454	22-Feb		0	0
4	2022	2	2			0	875.7508	28.48411	22-Feb		0	0
1	2022	3	3			0.327258	703.8083	29.16874	22-Mar		0	0
2	2022	3	3			0.327258	703.8083	29.39377	22-Mar		0	1
3.1	2022	3	3			0.327258	703.8083	30.03925	22-Mar		0	0
4	2022	3	3			0.327258	703.8083	30.13594	22-Mar		0	0
1	2022	4	4			2.728241	392.5706	29.6841	22-Apr		0	0
2	2022	4	4			2.728241	392.5706	29.92865	22-Apr		0	1
3.1	2022	4	4			2.728241	392.5706	29.99533	22-Apr		0	0
4	2022	4	4			2.728241	392.5706	30.0596	22-Apr		0	0
1	2022	5	5			19.20732	124.844	29.44534	22-May		0	0
2	2022	5	5			19.20732	124.844	29.67528	22-May		0	1
3.1	2022	5	5			19.20732	124.844	30.28347	22-May		0	0
4	2022	5	5			19.20732	124.844	30.71902	22-May		0	0
1	2022	6	6			103.2848	17.45267	30.41145	22-Jun		0	0
2	2022	6	6			103.2848	17.45267	30.77744	22-Jun		0	1
3.1	2022	6	6			103.2848	17.45267	30.44366	22-Jun		0	0
4	2022	6	6			103.2848	17.45267	30.30629	22-Jun		0	0
1	2022	7	7			238.4282	0.216536	30.31346	22-Jul		0	0
2	2022	7	7			238.4282	0.216536	30.73952	22-Jul		0	1
3.1	2022	7	7			238.4282	0.216536	31.11121	22-Jul		0	0
4	2022	7	7			238.4282	0.216536	30.78519	22-Jul		0	0
1	2022	8	8			250.3753	0	29.19002	22-Aug		0	0
2	2022	8	8			250.3753	0	29.52774	22-Aug		0	1
3.1	2022	8	8			250.3753	0	30.39433	22-Aug		0	0
4	2022	8	8			250.3753	0	30.68602	22-Aug		0	0
1	2022	9	9			177.4044	0.775056	30.14328	22-Sep		0	0
2	2022	9	9			177.4044	0.775056	30.54335	22-Sep		0	1
3.1	2022	9	9			177.4044	0.775056	30.53602	22-Sep		0	0
4	2022	9	9			177.4044	0.775056	30.15991	22-Sep		0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2022	10	10			53.11726	43.12334	29.31484	22-Oct		0	0
2	2022	10	10			53.11726	43.12334	29.54394	22-Oct		0	1
3.1	2022	10	10			53.11726	43.12334	30.08033	22-Oct		0	0
4	2022	10	10			53.11726	43.12334	30.69767	22-Oct		0	0
1	2022	11	11			5.085045	230.7257	29.06101	22-Nov		0	0
2	2022	11	11			5.085045	230.7257	29.3371	22-Nov		0	1
3.1	2022	11	11			5.085045	230.7257	29.76307	22-Nov		0	0
4	2022	11	11			5.085045	230.7257	29.92531	22-Nov		0	0
1	2022	12	12			0.065452	547.7798	32.11298	22-Dec		0	0
2	2022	12	12			0.065452	547.7798	32.36207	22-Dec		0	1
3.1	2022	12	12			0.065452	547.7798	31.72421	22-Dec		0	0
4	2022	12	12			0.065452	547.7798	31.37133	22-Dec		0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	com3	ind1	ind2	ind3	ind4	or1	or2	or3	or4	or5
3.1	2010	5	5	0	1	0	0	0	0	0	0	0
4	2010	5	5	0	0	0	0	0	0	0	0	0
1	2010	6	6	0	0	0	0	0	0	0	0	0
2	2010	6	6	0	0	0	0	0	0	0	0	0
3.1	2010	6	6	0	1	0	0	0	0	0	0	0
4	2010	6	6	0	0	0	0	0	0	0	0	0
1	2010	7	7	0	0	0	0	0	0	0	0	0
2	2010	7	7	0	0	0	0	0	0	0	0	0
3.1	2010	7	7	0	1	0	0	0	0	0	0	0
4	2010	7	7	0	0	0	0	0	0	0	0	0
1	2010	8	8	0	0	0	0	0	0	0	0	0
2	2010	8	8	0	0	0	0	0	0	0	0	0
3.1	2010	8	8	0	1	0	0	0	0	0	0	0
4	2010	8	8	0	0	0	0	0	0	0	0	0
1	2010	9	9	0	0	0	0	0	0	0	0	0
2	2010	9	9	0	0	0	0	0	0	0	0	0
3.1	2010	9	9	0	1	0	0	0	0	0	0	0
4	2010	9	9	0	0	0	0	0	0	0	0	0
1	2010	10	10	0	0	0	0	0	0	0	0	0
2	2010	10	10	0	0	0	0	0	0	0	0	0
3.1	2010	10	10	0	1	0	0	0	0	0	-1	0
4	2010	10	10	0	0	0	0	0	0	0	0	0
1	2010	11	11	0	0	0	0	0	0	0	0	0
2	2010	11	11	0	0	0	0	0	0	0	0	0
3.1	2010	11	11	0	1	0	0	0	0	0	0	0
4	2010	11	11	0	0	0	0	0	0	0	1	0
1	2010	12	12	0	0	0	0	0	0	0	0	0
2	2010	12	12	0	0	0	0	0	0	0	0	0
3.1	2010	12	12	0	1	0	0	0	0	0	0	0
4	2010	12	12	0	0	0	0	0	0	0	0	-1
1	2011	1	1	0	0	0	0	0	0	0	0	0
2	2011	1	1	0	0	0	0	0	0	0	0	0
3.1	2011	1	1	0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	com3	ind1	ind2	ind3	ind4	or1	or2	or3	or4	or5
3.1	2015	11		0	1	0	0	0	0	0	0	0
4	2015	11		0	0	0	0	0	0	0	0	0
1	2015	12		0	0	0	0	0	0	0	0	0
2	2015	12		1	0	0	0	0	0	0	0	0
3.1	2015	12		0	1	0	0	0	0	0	0	0
4	2015	12		0	0	0	0	0	0	0	0	0
1	2016	1		0	0	0	0	0	0	0	0	0
2	2016	1		1	0	0	0	0	0	0	0	0
3.1	2016	1		0	1	0	0	0	0	0	0	0
4	2016	1		0	0	0	0	0	0	0	0	0
1	2016	2		0	0	0	0	0	0	0	0	0
2	2016	2		1	0	0	0	0	0	0	0	0
3.1	2016	2		0	1	0	0	0	0	0	0	0
4	2016	2		0	0	0	0	0	0	0	0	0
1	2016	3		0	0	0	0	0	0	0	0	0
2	2016	3		1	0	0	0	0	0	0	0	0
3.1	2016	3		0	1	0	0	0	0	0	0	0
4	2016	3		0	0	0	0	0	0	0	0	0
1	2016	4		0	0	0	0	0	0	0	0	0
2	2016	4		1	0	0	0	0	0	0	0	0
3.1	2016	4		0	1	0	0	0	0	0	0	0
4	2016	4		0	0	0	0	0	0	0	0	0
1	2016	5		0	0	0	0	0	0	0	0	0
2	2016	5		1	0	0	0	0	0	0	0	0
3.1	2016	5		0	1	0	0	0	0	0	0	0
4	2016	5		0	0	0	0	0	0	0	0	0
1	2016	6		0	0	0	0	0	0	0	0	0
2	2016	6		1	0	0	0	0	0	0	0	0
3.1	2016	6		0	1	0	0	0	0	0	0	0
4	2016	6		0	0	0	0	0	0	0	0	0
1	2016	7		0	0	0	0	0	0	0	0	0
2	2016	7		1	0	0	0	0	0	0	0	0
3.1	2016	7		0	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	com3	ind1	ind2	ind3	ind4	or1	or2	or3	or4	or5
3.1	2018	8	8	0	1	0	0	0	0	0	0	0
4	2018	8	8	0	0	0	0	0	0	0	0	0
1	2018	9	9	0	0	0	0	0	0	0	0	0
2	2018	9	9	1	0	0	0	0	0	0	0	0
3.1	2018	9	9	0	1	0	0	0	0	0	0	0
4	2018	9	9	0	0	0	0	0	0	0	0	0
1	2018	10	10	0	0	0	0	0	0	0	0	0
2	2018	10	10	1	0	0	0	0	0	0	0	0
3.1	2018	10	10	0	1	0	0	0	0	0	0	0
4	2018	10	10	0	0	0	0	0	0	0	0	0
1	2018	11	11	0	0	0	0	0	0	0	0	0
2	2018	11	11	1	0	0	0	0	0	0	0	0
3.1	2018	11	11	0	1	0	0	1	0	0	0	0
4	2018	11	11	0	0	0	0	0	0	0	0	0
1	2018	12	12	0	0	0	0	0	0	0	0	0
2	2018	12	12	1	0	0	0	0	0	0	0	0
3.1	2018	12	12	0	1	0	0	1	0	0	0	0
4	2018	12	12	0	0	0	0	0	0	0	0	0
1	2019	1	1	0	0	0	0	0	0	0	0	0
2	2019	1	1	1	0	0	0	0	0	0	0	0
3.1	2019	1	1	0	1	0	0	1	0	0	0	0
4	2019	1	1	0	0	0	0	0	0	0	0	0
1	2019	2	2	0	0	0	0	0	0	0	0	0
2	2019	2	2	1	0	0	0	0	0	0	0	0
3.1	2019	2	2	0	1	0	0	1	0	0	0	0
4	2019	2	2	0	0	0	0	0	0	0	0	0
1	2019	3	3	0	0	0	0	0	0	0	0	0
2	2019	3	3	1	0	0	0	0	0	0	0	0
3.1	2019	3	3	0	1	0	0	1	0	0	0	0
4	2019	3	3	0	0	0	0	0	0	0	0	0
1	2019	4	4	0	0	0	0	0	0	0	0	0
2	2019	4	4	1	0	0	0	0	0	0	0	0
3.1	2019	4	4	0	0	0	0	0	0	0	0	0
4	2019	4	4	0	0	0	0	0	0	0	0	0
1	2019	4	4	0	0	0	0	0	0	0	0	0
2	2019	4	4	1	0	0	0	0	0	0	0	0
3.1	2019	4	4	0	1	0	0	1	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	com3	ind1	ind2	ind3	ind4	or1	or2	or3	or4	or5
3.1	2021	5	5	0	1	0	0	1	0	0	0	0
4	2021	5	5	0	0	0	0	0	0	0	0	0
1	2021	6	6	0	0	0	0	0	0	0	0	0
2	2021	6	6	1	0	0	0	0	0	0	0	0
3.1	2021	6	6	0	1	0	0	1	0	0	0	0
4	2021	6	6	0	0	0	0	0	0	0	0	0
1	2021	7	7	0	0	0	0	0	0	0	0	0
2	2021	7	7	1	0	0	0	0	0	0	0	0
3.1	2021	7	7	0	1	0	0	1	0	0	0	0
4	2021	7	7	0	0	0	0	0	0	0	0	0
1	2021	8	8	0	0	0	0	0	0	0	0	0
2	2021	8	8	1	0	0	0	0	0	0	0	0
3.1	2021	8	8	0	1	0	0	1	0	0	0	0
4	2021	8	8	0	0	0	0	0	0	0	0	0
1	2021	9	9	0	0	0	0	0	0	0	0	0
2	2021	9	9	1	0	0	0	0	0	0	0	0
3.1	2021	9	9	0	1	0	0	1	0	0	0	0
4	2021	9	9	0	0	0	0	0	0	0	0	0
1	2021	10	10	0	0	0	0	0	0	0	0	0
2	2021	10	10	1	0	0	0	0	0	0	0	0
3.1	2021	10	10	0	1	0	0	1	0	0	0	0
4	2021	10	10	0	0	0	0	0	0	0	0	0
1	2021	11	11	0	0	0	0	0	0	0	0	0
2	2021	11	11	1	0	0	0	0	0	0	0	0
3.1	2021	11	11	0	1	0	0	1	0	0	0	0
4	2021	11	11	0	0	0	0	0	0	0	0	0
1	2021	12	12	0	0	0	0	0	0	0	0	0
2	2021	12	12	1	0	0	0	0	0	0	0	0
3.1	2021	12	12	0	1	0	0	1	0	0	0	0
4	2021	12	12	0	0	0	0	0	0	0	0	0
1	2022	1	1	0	0	0	0	0	0	0	0	0
2	2022	1	1	1	0	0	0	0	0	0	0	0
3.1	2022	1	1	0	1	0	0	1	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2009	1	0	0	0	0	0	0	0
2	2009	1	0	0	0	0	0	0	0
3.1	2009	1	0	0	0	0	0	0	0
4	2009	1	0	0	0	0	0	0	0
1	2009	2	0	0	0	0	0	0	0
2	2009	2	0	0	0	0	0	0	0
3.1	2009	2	0	0	0	0	0	0	0
4	2009	2	0	0	0	0	0	0	0
1	2009	3	0	0	0	0	0	0	0
2	2009	3	0	0	0	0	0	0	0
3.1	2009	3	0	0	0	0	0	0	0
4	2009	3	0	0	0	0	0	0	0
1	2009	4	0	0	0	0	0	0	0
2	2009	4	0	0	0	0	0	0	0
3.1	2009	4	0	0	0	0	0	0	0
4	2009	4	0	0	0	0	0	0	0
1	2009	5	0	0	0	0	0	0	0
2	2009	5	0	0	0	0	0	0	0
3.1	2009	5	0	0	0	0	0	0	0
4	2009	5	0	0	0	0	0	0	0
1	2009	6	0	0	0	0	0	0	0
2	2009	6	0	0	0	0	0	0	0
3.1	2009	6	0	0	0	0	0	0	0
4	2009	6	0	0	0	0	0	0	0
1	2009	7	0	0	0	0	0	0	0
2	2009	7	0	0	0	0	0	0	0
3.1	2009	7	0	0	0	0	0	0	0
4	2009	7	0	0	0	0	0	0	0
1	2009	8	0	0	0	0	0	0	0
2	2009	8	0	0	0	0	0	0	0
3.1	2009	8	0	0	0	0	0	0	0
4	2009	8	0	0	0	0	0	0	0
1	2009	9	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
2	2009	9	0	0	0	0	0	0	0
3.1	2009	9	0	0	0	0	0	0	0
4	2009	9	0	0	0	0	0	0	0
1	2009	10	0	0	0	0	0	0	0
2	2009	10	0	0	0	0	0	0	0
3.1	2009	10	0	0	0	0	0	0	0
4	2009	10	0	0	0	0	0	0	0
1	2009	11	0	0	0	0	0	0	0
2	2009	11	0	0	0	0	0	0	0
3.1	2009	11	0	0	0	0	0	0	0
4	2009	11	0	0	0	0	0	0	0
1	2009	12	0	0	0	0	0	0	0
2	2009	12	0	0	0	0	0	0	0
3.1	2009	12	0	0	0	0	0	0	0
4	2009	12	0	0	0	0	0	0	0
1	2010	1	0	0	0	0	0	0	0
2	2010	1	0	0	0	0	0	0	0
3.1	2010	1	0	0	0	0	0	0	0
4	2010	1	0	0	0	0	0	0	0
1	2010	2	0	0	0	0	0	0	0
2	2010	2	0	0	0	0	0	0	0
3.1	2010	2	0	0	0	0	0	0	0
4	2010	2	0	0	0	0	0	0	0
1	2010	3	0	0	0	0	0	0	0
2	2010	3	0	0	0	0	0	0	0
3.1	2010	3	0	0	0	0	0	0	0
4	2010	3	0	0	0	0	0	0	0
1	2010	4	0	0	0	0	0	0	0
2	2010	4	0	0	0	0	0	0	0
3.1	2010	4	0	0	0	0	0	0	0
4	2010	4	0	0	0	0	0	0	0
1	2010	5	0	0	0	0	0	0	0
2	2010	5	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
3.1	2010	5	0	0	0	0	0	0	0
4	2010	5	0	0	0	0	0	0	0
1	2010	6	0	0	0	0	0	0	0
2	2010	6	0	0	0	0	0	0	0
3.1	2010	6	0	0	0	0	0	0	0
4	2010	6	0	0	0	0	0	0	0
1	2010	7	0	0	0	0	0	0	0
2	2010	7	0	0	0	0	0	0	0
3.1	2010	7	0	0	0	0	0	0	0
4	2010	7	0	0	0	0	0	0	0
1	2010	8	0	0	0	0	0	0	0
2	2010	8	0	0	0	0	0	0	0
3.1	2010	8	0	0	0	0	0	0	0
4	2010	8	0	0	0	0	0	0	0
1	2010	9	0	0	0	0	0	0	0
2	2010	9	0	0	0	0	0	0	0
3.1	2010	9	0	0	0	0	0	0	0
4	2010	9	0	0	0	0	0	0	0
1	2010	10	0	0	0	0	0	0	0
2	2010	10	0	0	0	0	0	0	0
3.1	2010	10	0	0	0	0	0	0	0
4	2010	10	0	0	0	0	0	0	0
1	2010	11	0	0	0	0	0	0	0
2	2010	11	0	0	0	0	0	0	0
3.1	2010	11	0	0	0	0	0	0	0
4	2010	11	0	0	0	0	0	0	0
1	2010	12	0	0	0	0	0	0	0
2	2010	12	0	0	0	0	0	0	0
3.1	2010	12	0	0	0	0	0	0	0
4	2010	12	0	0	0	0	0	0	0
1	2011	1	0	0	0	0	0	0	0
2	2011	1	0	0	0	0	0	0	0
3.1	2011	1	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
4	2011	1	0	0	0	0	0	0	0
1	2011	2	0	0	0	0	0	0	0
2	2011	2	0	0	0	0	0	0	0
3.1	2011	2	0	0	0	0	0	0	0
4	2011	2	0	0	0	0	0	0	0
1	2011	3	0	0	0	0	0	0	0
2	2011	3	0	0	0	0	0	0	0
3.1	2011	3	0	0	0	0	0	0	0
4	2011	3	0	0	0	0	0	0	0
1	2011	4	0	0	0	0	0	0	0
2	2011	4	0	0	0	0	0	0	0
3.1	2011	4	0	0	0	0	0	0	0
4	2011	4	0	0	0	0	0	0	0
1	2011	5	0	0	0	0	0	0	0
2	2011	5	0	0	0	0	0	0	0
3.1	2011	5	0	0	0	0	0	0	0
4	2011	5	0	0	0	0	0	0	0
1	2011	6	0	0	0	0	0	0	0
2	2011	6	0	0	0	0	0	0	0
3.1	2011	6	0	0	0	0	0	0	0
4	2011	6	0	0	0	0	0	0	0
1	2011	7	0	0	0	0	0	0	0
2	2011	7	0	0	0	0	0	0	0
3.1	2011	7	0	0	0	0	0	0	0
4	2011	7	0	0	0	0	0	0	0
1	2011	8	0	0	0	0	0	0	0
2	2011	8	0	0	0	0	0	0	0
3.1	2011	8	0	0	0	0	0	0	0
4	2011	8	0	0	0	0	0	0	0
1	2011	9	0	0	0	0	0	0	0
2	2011	9	0	0	0	0	0	0	0
3.1	2011	9	0	0	0	0	0	0	0
4	2011	9	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2011	10	0	0	0	0	0	0	0
2	2011	10	0	0	0	0	0	0	0
3.1	2011	10	0	0	0	0	0	0	0
4	2011	10	0	0	0	0	0	0	0
1	2011	11	0	0	0	0	0	0	0
2	2011	11	0	0	0	0	0	0	0
3.1	2011	11	0	0	0	0	0	0	0
4	2011	11	0	0	0	0	0	0	0
1	2011	12	0	0	0	0	0	0	0
2	2011	12	0	0	0	0	0	0	0
3.1	2011	12	0	0	0	0	0	0	0
4	2011	12	-1	0	0	0	0	0	0
1	2012	1	0	0	0	0	0	0	0
2	2012	1	0	0	0	0	0	0	0
3.1	2012	1	0	0	0	0	0	0	0
4	2012	1	1	0	0	0	0	0	0
1	2012	2	0	0	0	0	0	0	0
2	2012	2	0	0	0	0	0	0	0
3.1	2012	2	0	0	0	0	0	0	0
4	2012	2	0	0	0	0	0	0	0
1	2012	3	0	0	0	0	0	0	0
2	2012	3	0	0	0	0	0	0	0
3.1	2012	3	0	0	0	0	0	0	0
4	2012	3	0	0	-1	0	0	0	0
1	2012	4	0	0	0	0	0	0	0
2	2012	4	0	0	0	0	0	0	0
3.1	2012	4	0	0	0	0	0	0	0
4	2012	4	0	0	1	0	0	0	0
1	2012	5	0	0	0	0	0	0	0
2	2012	5	0	0	0	0	0	0	0
3.1	2012	5	0	0	0	0	0	0	0
4	2012	5	0	0	0	0	0	0	0
1	2012	6	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
2	2012	6	0	0	0	0	0	0	0
3.1	2012	6	0	0	0	0	0	0	0
4	2012	6	0	0	0	0	0	0	0
1	2012	7	0	0	0	0	0	0	0
2	2012	7	0	0	0	0	0	0	0
3.1	2012	7	0	0	0	0	0	0	0
4	2012	7	0	0	0	0	0	0	0
1	2012	8	0	0	0	0	0	0	0
2	2012	8	0	0	0	0	0	0	0
3.1	2012	8	0	0	0	0	0	0	0
4	2012	8	0	0	0	0	0	0	0
1	2012	9	0	0	0	0	0	0	0
2	2012	9	0	0	0	0	0	0	0
3.1	2012	9	0	0	0	0	0	0	0
4	2012	9	0	0	0	0	0	0	0
1	2012	10	0	0	0	0	0	0	0
2	2012	10	0	0	0	0	0	0	0
3.1	2012	10	0	0	0	0	0	0	0
4	2012	10	0	0	0	0	0	0	0
1	2012	11	0	0	0	0	0	0	0
2	2012	11	0	0	0	0	0	0	0
3.1	2012	11	0	0	0	0	0	0	0
4	2012	11	0	0	0	0	0	0	0
1	2012	12	0	0	0	0	0	0	0
2	2012	12	0	0	0	0	0	0	0
3.1	2012	12	0	0	0	0	0	0	0
4	2012	12	0	0	0	0	0	0	0
1	2013	1	0	0	0	0	0	0	0
2	2013	1	0	0	0	0	0	0	0
3.1	2013	1	0	0	0	0	0	0	0
4	2013	1	0	0	0	0	0	0	0
1	2013	2	0	0	0	0	0	0	0
2	2013	2	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
3.1	2013	2	0	0	0	0	0	0	0
4	2013	2	0	0	0	1	0	0	0
1	2013	3	0	0	0	0	0	0	0
2	2013	3	0	0	0	0	0	0	0
3.1	2013	3	0	0	0	0	0	0	0
4	2013	3	0	0	0	0	0	0	0
1	2013	4	0	0	0	0	0	0	0
2	2013	4	0	0	0	0	0	0	0
3.1	2013	4	0	0	0	0	0	0	0
4	2013	4	0	0	0	0	0	0	0
1	2013	5	0	0	0	0	0	0	0
2	2013	5	0	0	0	0	0	0	0
3.1	2013	5	0	0	0	0	0	0	0
4	2013	5	0	0	0	0	0	0	0
1	2013	6	0	0	0	0	0	0	0
2	2013	6	0	0	0	0	0	0	0
3.1	2013	6	0	0	0	0	0	0	0
4	2013	6	0	0	0	0	0	0	0
1	2013	7	0	0	0	0	0	0	0
2	2013	7	0	0	0	0	0	0	0
3.1	2013	7	0	0	0	0	0	0	0
4	2013	7	0	0	0	0	0	0	0
1	2013	8	0	0	0	0	0	0	0
2	2013	8	0	0	0	0	0	0	0
3.1	2013	8	0	0	0	0	0	0	0
4	2013	8	0	0	0	0	0	0	0
1	2013	9	0	0	0	0	0	0	0
2	2013	9	0	0	0	0	0	0	0
3.1	2013	9	0	0	0	0	0	0	0
4	2013	9	0	0	0	0	0	0	0
1	2013	10	0	0	0	0	0	0	0
2	2013	10	0	0	0	0	0	0	0
3.1	2013	10	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
4	2013	10	0	0	0	0	0	0	0
1	2013	11	0	0	0	0	0	0	0
2	2013	11	0	0	0	0	0	0	0
3.1	2013	11	0	0	0	0	0	0	0
4	2013	11	0	0	0	0	0	0	0
1	2013	12	0	0	0	0	0	0	0
2	2013	12	0	0	0	0	0	0	0
3.1	2013	12	0	0	0	0	0	0	0
4	2013	12	0	0	0	0	0	0	0
1	2014	1	0	0	0	0	0	0	0
2	2014	1	0	0	0	0	0	0	0
3.1	2014	1	0	0	0	0	0	0	0
4	2014	1	0	0	0	0	0	0	0
1	2014	2	0	0	0	0	0	0	0
2	2014	2	0	0	0	0	0	0	0
3.1	2014	2	0	0	0	0	0	0	0
4	2014	2	0	0	0	0	0	0	0
1	2014	3	0	0	0	0	0	0	0
2	2014	3	0	0	0	0	0	0	0
3.1	2014	3	0	0	0	0	0	0	0
4	2014	3	0	0	0	0	0	0	0
1	2014	4	0	0	0	0	0	0	0
2	2014	4	0	0	0	0	0	0	0
3.1	2014	4	0	0	0	0	0	0	0
4	2014	4	0	0	0	0	0	0	0
1	2014	5	0	0	0	0	0	0	0
2	2014	5	0	0	0	0	0	0	0
3.1	2014	5	0	0	0	0	0	0	0
4	2014	5	0	0	0	0	0	0	0
1	2014	6	0	0	0	0	0	0	0
2	2014	6	0	0	0	0	0	0	0
3.1	2014	6	0	0	0	0	0	0	0
4	2014	6	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2014	7	0	0	0	0	0	0	0
2	2014	7	0	0	0	0	0	0	0
3.1	2014	7	0	0	0	0	0	0	0
4	2014	7	0	0	0	0	0	0	0
1	2014	8	0	0	0	0	0	0	0
2	2014	8	0	0	0	0	0	0	0
3.1	2014	8	0	0	0	0	0	0	0
4	2014	8	0	0	0	0	0	0	0
1	2014	9	0	0	0	0	0	0	0
2	2014	9	0	0	0	0	0	0	0
3.1	2014	9	0	0	0	0	0	0	0
4	2014	9	0	0	0	0	0	0	0
1	2014	10	0	0	0	0	0	0	0
2	2014	10	0	0	0	0	0	0	0
3.1	2014	10	0	0	0	0	0	0	0
4	2014	10	0	0	0	0	0	0	0
1	2014	11	0	0	0	0	0	0	0
2	2014	11	0	0	0	0	0	0	0
3.1	2014	11	0	0	0	0	0	0	0
4	2014	11	0	0	0	0	0	0	0
1	2014	12	0	0	0	0	0	0	0
2	2014	12	0	0	0	0	0	0	0
3.1	2014	12	0	0	0	0	0	0	0
4	2014	12	0	0	0	0	0	0	0
1	2015	1	0	0	0	0	0	0	0
2	2015	1	0	0	0	0	0	0	0
3.1	2015	1	0	0	0	0	0	0	0
4	2015	1	0	0	0	0	0	0	0
1	2015	2	0	0	0	0	0	0	0
2	2015	2	0	0	0	0	0	0	0
3.1	2015	2	0	0	0	0	0	0	0
4	2015	2	0	0	0	0	0	0	0
1	2015	3	0	0	0	0	0	0	0

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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
2	2015	3	0	0	0	0	0	0	0
3.1	2015	3	0	0	0	0	0	0	0
4	2015	3	0	0	0	0	0	0	0
1	2015	4	0	0	0	0	0	0	0
2	2015	4	0	0	0	0	0	0	0
3.1	2015	4	0	0	0	0	0	0	0
4	2015	4	0	0	0	0	0	0	0
1	2015	5	0	0	0	0	0	0	0
2	2015	5	0	0	0	0	0	0	0
3.1	2015	5	0	0	0	0	0	0	0
4	2015	5	0	0	0	0	0	0	0
1	2015	6	0	0	0	0	0	0	0
2	2015	6	0	0	0	0	0	0	0
3.1	2015	6	0	0	0	0	0	0	0
4	2015	6	0	0	0	0	0	0	0
1	2015	7	0	0	0	0	0	0	0
2	2015	7	0	0	0	0	0	0	0
3.1	2015	7	0	0	0	0	0	0	0
4	2015	7	0	0	0	0	0	0	0
1	2015	8	0	0	0	0	0	0	0
2	2015	8	0	0	0	0	0	0	0
3.1	2015	8	0	0	0	0	0	0	0
4	2015	8	0	0	0	0	0	0	0
1	2015	9	0	0	0	0	0	0	0
2	2015	9	0	0	0	0	0	0	0
3.1	2015	9	0	0	0	0	0	0	0
4	2015	9	0	0	0	0	0	0	0
1	2015	10	0	0	0	0	0	0	0
2	2015	10	0	0	0	0	0	0	0
3.1	2015	10	0	0	0	0	0	0	0
4	2015	10	0	0	0	0	0	0	0
1	2015	11	0	0	0	0	0	0	0
2	2015	11	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
3.1	2015	11	0	0	0	0	0	0	0
4	2015	11	0	0	0	0	0	0	0
1	2015	12	0	0	0	0	0	0	0
2	2015	12	0	0	0	0	0	0	0
3.1	2015	12	0	0	0	0	0	0	0
4	2015	12	0	0	0	0	0	0	0
1	2016	1	0	0	0	0	0	0	0
2	2016	1	0	0	0	0	0	0	0
3.1	2016	1	0	0	0	0	0	0	0
4	2016	1	0	0	0	0	-1	0	0
1	2016	2	0	0	0	0	0	0	0
2	2016	2	0	0	0	0	0	0	0
3.1	2016	2	0	0	0	0	0	0	0
4	2016	2	0	0	0	0	1	0	0
1	2016	3	0	0	0	0	0	0	0
2	2016	3	0	0	0	0	0	0	0
3.1	2016	3	0	0	0	0	0	0	0
4	2016	3	0	0	0	0	0	0	0
1	2016	4	0	0	0	0	0	0	0
2	2016	4	0	0	0	0	0	0	0
3.1	2016	4	0	0	0	0	0	0	0
4	2016	4	0	0	0	0	0	0	0
1	2016	5	0	0	0	0	0	0	0
2	2016	5	0	0	0	0	0	0	0
3.1	2016	5	0	0	0	0	0	0	0
4	2016	5	0	0	0	0	0	0	0
1	2016	6	0	0	0	0	0	0	0
2	2016	6	0	0	0	0	0	0	0
3.1	2016	6	0	0	0	0	0	0	0
4	2016	6	0	0	0	0	0	0	0
1	2016	7	0	0	0	0	0	0	0
2	2016	7	0	0	0	0	0	0	0
3.1	2016	7	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
4	2016	7	0	0	0	0	0	0	0
1	2016	8	0	0	0	0	0	0	0
2	2016	8	0	0	0	0	0	0	0
3.1	2016	8	0	0	0	0	0	0	0
4	2016	8	0	0	0	0	0	0	0
1	2016	9	0	0	0	0	0	0	0
2	2016	9	0	0	0	0	0	0	0
3.1	2016	9	0	0	0	0	0	0	0
4	2016	9	0	0	0	0	0	0	0
1	2016	10	0	0	0	0	0	0	0
2	2016	10	0	0	0	0	0	0	0
3.1	2016	10	0	0	0	0	0	0	0
4	2016	10	0	0	0	0	0	0	0
1	2016	11	0	0	0	0	0	0	0
2	2016	11	0	0	0	0	0	0	0
3.1	2016	11	0	0	0	0	0	0	0
4	2016	11	0	0	0	0	0	0	0
1	2016	12	0	0	0	0	0	0	0
2	2016	12	0	0	0	0	0	0	0
3.1	2016	12	0	0	0	0	0	0	0
4	2016	12	0	0	0	0	0	0	0
1	2017	1	0	0	0	0	0	0	0
2	2017	1	0	0	0	0	0	0	0
3.1	2017	1	0	0	0	0	0	0	0
4	2017	1	0	0	0	0	0	0	0
1	2017	2	0	0	0	0	0	0	0
2	2017	2	0	0	0	0	0	0	0
3.1	2017	2	0	0	0	0	0	0	0
4	2017	2	0	0	0	0	0	0	0
1	2017	3	0	0	0	0	0	0	0
2	2017	3	0	0	0	0	0	0	0
3.1	2017	3	0	0	0	0	0	0	0
4	2017	3	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2017	4	0	0	0	0	0	0	0
2	2017	4	0	0	0	0	0	0	0
3.1	2017	4	0	0	0	0	0	0	0
4	2017	4	0	0	0	0	0	0	0
1	2017	5	0	0	0	0	0	0	0
2	2017	5	0	0	0	0	0	0	0
3.1	2017	5	0	0	0	0	0	0	0
4	2017	5	0	0	0	0	0	0	0
1	2017	6	0	0	0	0	0	0	0
2	2017	6	0	0	0	0	0	0	0
3.1	2017	6	0	0	0	0	0	0	0
4	2017	6	0	0	0	0	0	0	0
1	2017	7	0	0	0	0	0	0	0
2	2017	7	0	0	0	0	0	0	0
3.1	2017	7	0	0	0	0	0	0	0
4	2017	7	0	0	0	0	0	0	0
1	2017	8	0	0	0	0	0	0	0
2	2017	8	0	0	0	0	0	0	0
3.1	2017	8	0	0	0	0	0	0	0
4	2017	8	0	0	0	0	0	0	0
1	2017	9	0	0	0	0	0	0	0
2	2017	9	0	0	0	0	0	0	0
3.1	2017	9	0	0	0	0	0	0	0
4	2017	9	0	0	0	0	0	0	0
1	2017	10	0	0	0	0	0	0	0
2	2017	10	0	0	0	0	0	0	0
3.1	2017	10	0	0	0	0	0	0	0
4	2017	10	0	0	0	0	0	0	0
1	2017	11	0	0	0	0	0	0	0
2	2017	11	0	0	0	0	0	0	0
3.1	2017	11	0	0	0	0	0	0	0
4	2017	11	0	0	0	0	0	0	0
1	2017	12	0	0	0	0	0	-1	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
2	2017	12	0	0	0	0	0	0	0
3.1	2017	12	0	0	0	0	0	0	0
4	2017	12	0	0	0	0	0	1	0
1	2018	1	0	0	0	0	0	0	0
2	2018	1	0	0	0	0	0	0	0
3.1	2018	1	0	0	0	0	0	0	0
4	2018	1	0	0	0	0	0	0	1
1	2018	2	0	0	0	0	0	0	0
2	2018	2	0	0	0	0	0	0	0
3.1	2018	2	0	0	0	0	0	0	0
4	2018	2	0	0	0	0	0	0	0
1	2018	3	0	0	0	0	0	0	0
2	2018	3	0	0	0	0	0	0	0
3.1	2018	3	0	0	0	0	0	0	0
4	2018	3	0	0	0	0	0	0	0
1	2018	4	0	0	0	0	0	0	0
2	2018	4	0	0	0	0	0	0	0
3.1	2018	4	0	0	0	0	0	0	0
4	2018	4	0	0	0	0	0	0	0
1	2018	5	0	0	0	0	0	0	0
2	2018	5	0	0	0	0	0	0	0
3.1	2018	5	0	0	0	0	0	0	0
4	2018	5	0	0	0	0	0	0	0
1	2018	6	0	0	0	0	0	0	0
2	2018	6	0	0	0	0	0	0	0
3.1	2018	6	0	0	0	0	0	0	0
4	2018	6	0	0	0	0	0	0	0
1	2018	7	0	0	0	0	0	0	1
2	2018	7	0	0	0	0	0	0	0
3.1	2018	7	0	0	0	0	0	0	0
4	2018	7	0	0	0	0	0	0	0
1	2018	8	0	0	0	0	0	0	0
2	2018	8	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
3.1	2018	8	0	0	0	0	0	0	0
4	2018	8	0	0	0	0	0	0	0
1	2018	9	0	0	0	0	0	0	0
2	2018	9	0	0	0	0	0	0	0
3.1	2018	9	0	0	0	0	0	0	0
4	2018	9	0	0	0	0	0	0	0
1	2018	10	0	0	0	0	0	0	0
2	2018	10	0	0	0	0	0	0	0
3.1	2018	10	0	0	0	0	0	0	0
4	2018	10	0	0	0	0	0	0	0
1	2018	11	0	0	0	0	0	0	0
2	2018	11	0	0	0	0	0	0	0
3.1	2018	11	0	0	0	0	0	0	0
4	2018	11	0	0	0	0	0	0	0
1	2018	12	0	0	0	0	0	0	0
2	2018	12	0	0	0	0	0	0	0
3.1	2018	12	0	0	0	0	0	0	0
4	2018	12	0	0	0	0	0	0	0
1	2019	1	0	0	0	0	0	0	0
2	2019	1	0	0	0	0	0	0	0
3.1	2019	1	0	0	0	0	0	0	0
4	2019	1	0	0	0	0	0	0	0
1	2019	2	0	0	0	0	0	0	0
2	2019	2	0	0	0	0	0	0	0
3.1	2019	2	0	0	0	0	0	0	0
4	2019	2	0	0	0	0	0	0	0
1	2019	3	0	0	0	0	0	0	0
2	2019	3	0	0	0	0	0	0	0
3.1	2019	3	0	0	0	0	0	0	0
4	2019	3	0	0	0	0	0	0	0
1	2019	4	0	0	0	0	0	0	0
2	2019	4	0	0	0	0	0	0	0
3.1	2019	4	0	0	0	0	0	0	0
4	2019	4	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
4	2019	4	0	0	0	0	0	0	0
1	2019	5	0	0	0	0	0	0	0
2	2019	5	0	0	0	0	0	0	0
3.1	2019	5	0	0	0	0	0	0	0
4	2019	5	0	0	0	0	0	0	0
1	2019	6	0	0	0	0	0	0	0
2	2019	6	0	0	0	0	0	0	0
3.1	2019	6	0	0	0	0	0	0	0
4	2019	6	0	0	0	0	0	0	0
1	2019	7	0	0	0	0	0	0	0
2	2019	7	0	0	0	0	0	0	0
3.1	2019	7	0	0	0	0	0	0	0
4	2019	7	0	0	0	0	0	0	0
1	2019	8	0	0	0	0	0	0	0
2	2019	8	0	0	0	0	0	0	0
3.1	2019	8	0	0	0	0	0	0	0
4	2019	8	0	0	0	0	0	0	0
1	2019	9	0	0	0	0	0	0	0
2	2019	9	0	0	0	0	0	0	0
3.1	2019	9	0	0	0	0	0	0	0
4	2019	9	0	0	0	0	0	0	0
1	2019	10	0	0	0	0	0	0	0
2	2019	10	0	0	0	0	0	0	0
3.1	2019	10	0	0	0	0	0	0	0
4	2019	10	0	0	0	0	0	0	0
1	2019	11	0	0	0	0	0	0	0
2	2019	11	0	0	0	0	0	0	0
3.1	2019	11	0	0	0	0	0	0	0
4	2019	11	0	0	0	0	0	0	0
1	2019	12	0	0	0	0	0	0	0
2	2019	12	0	0	0	0	0	0	0
3.1	2019	12	0	0	0	0	0	0	0
4	2019	12	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2020	1	0	0	0	0	0	0	0
2	2020	1	0	0	0	0	0	0	0
3.1	2020	1	0	0	0	0	0	0	0
4	2020	1	0	0	0	0	0	0	0
1	2020	2	0	0	0	0	0	0	0
2	2020	2	0	0	0	0	0	0	0
3.1	2020	2	0	0	0	0	0	0	0
4	2020	2	0	0	0	0	0	0	0
1	2020	3	0	0	0	0	0	0	0
2	2020	3	0	0	0	0	0	0	0
3.1	2020	3	0	0	0	0	0	0	0
4	2020	3	0	0	0	0	0	0	0
1	2020	4	0	0	0	0	0	0	0
2	2020	4	0	0	0	0	0	0	0
3.1	2020	4	0	0	0	0	0	0	0
4	2020	4	0	0	0	0	0	0	0
1	2020	5	0	0	0	0	0	0	0
2	2020	5	0	0	0	0	0	0	0
3.1	2020	5	0	0	0	0	0	0	0
4	2020	5	0	0	0	0	0	0	0
1	2020	6	0	0	0	0	0	0	0
2	2020	6	0	0	0	0	0	0	0
3.1	2020	6	0	0	0	0	0	0	0
4	2020	6	0	0	0	0	0	0	0
1	2020	7	0	0	0	0	0	0	0
2	2020	7	0	0	0	0	0	0	0
3.1	2020	7	0	0	0	0	0	0	0
4	2020	7	0	0	0	0	0	0	0
1	2020	8	0	0	0	0	0	0	0
2	2020	8	0	0	0	0	0	0	0
3.1	2020	8	0	0	0	0	0	0	0
4	2020	8	0	0	0	0	0	0	0
1	2020	9	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
2	2020	9	0	0	0	0	0	0	0
3.1	2020	9	0	0	0	0	0	0	0
4	2020	9	0	0	0	0	0	0	0
1	2020	10	0	0	0	0	0	0	0
2	2020	10	0	0	0	0	0	0	0
3.1	2020	10	0	0	0	0	0	0	0
4	2020	10	0	0	0	0	0	0	0
1	2020	11	0	0	0	0	0	0	0
2	2020	11	0	0	0	0	0	0	0
3.1	2020	11	0	0	0	0	0	0	0
4	2020	11	0	0	0	0	0	0	0
1	2020	12	0	0	0	0	0	0	0
2	2020	12	0	0	0	0	0	0	0
3.1	2020	12	0	0	0	0	0	0	0
4	2020	12	0	0	0	0	0	0	0
1	2021	1	0	0	0	0	0	0	0
2	2021	1	0	0	0	0	0	0	0
3.1	2021	1	0	0	0	0	0	0	0
4	2021	1	0	0	0	0	0	0	0
1	2021	2	0	0	0	0	0	0	0
2	2021	2	0	0	0	0	0	0	0
3.1	2021	2	0	0	0	0	0	0	0
4	2021	2	0	0	0	0	0	0	0
1	2021	3	0	0	0	0	0	0	0
2	2021	3	0	0	0	0	0	0	0
3.1	2021	3	0	0	0	0	0	0	0
4	2021	3	0	0	0	0	0	0	0
1	2021	4	0	0	0	0	0	0	0
2	2021	4	0	0	0	0	0	0	0
3.1	2021	4	0	0	0	0	0	0	0
4	2021	4	0	0	0	0	0	0	0
1	2021	5	0	0	0	0	0	0	0
2	2021	5	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
3.1	2021	5	0	0	0	0	0	0	0
4	2021	5	0	0	0	0	0	0	0
1	2021	6	0	0	0	0	0	0	0
2	2021	6	0	0	0	0	0	0	0
3.1	2021	6	0	0	0	0	0	0	0
4	2021	6	0	0	0	0	0	0	0
1	2021	7	0	0	0	0	0	0	0
2	2021	7	0	0	0	0	0	0	0
3.1	2021	7	0	0	0	0	0	0	0
4	2021	7	0	0	0	0	0	0	0
1	2021	8	0	0	0	0	0	0	0
2	2021	8	0	0	0	0	0	0	0
3.1	2021	8	0	0	0	0	0	0	0
4	2021	8	0	0	0	0	0	0	0
1	2021	9	0	0	0	0	0	0	0
2	2021	9	0	0	0	0	0	0	0
3.1	2021	9	0	0	0	0	0	0	0
4	2021	9	0	0	0	0	0	0	0
1	2021	10	0	0	0	0	0	0	0
2	2021	10	0	0	0	0	0	0	0
3.1	2021	10	0	0	0	0	0	0	0
4	2021	10	0	0	0	0	0	0	0
1	2021	11	0	0	0	0	0	0	0
2	2021	11	0	0	0	0	0	0	0
3.1	2021	11	0	0	0	0	0	0	0
4	2021	11	0	0	0	0	0	0	0
1	2021	12	0	0	0	0	0	0	0
2	2021	12	0	0	0	0	0	0	0
3.1	2021	12	0	0	0	0	0	0	0
4	2021	12	0	0	0	0	0	0	0
1	2022	1	0	0	0	0	0	0	0
2	2022	1	0	0	0	0	0	0	0
3.1	2022	1	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
4	2022	1	0	0	0	0	0	0	0
1	2022	2	0	0	0	0	0	0	0
2	2022	2	0	0	0	0	0	0	0
3.1	2022	2	0	0	0	0	0	0	0
4	2022	2	0	0	0	0	0	0	0
1	2022	3	0	0	0	0	0	0	0
2	2022	3	0	0	0	0	0	0	0
3.1	2022	3	0	0	0	0	0	0	0
4	2022	3	0	0	0	0	0	0	0
1	2022	4	0	0	0	0	0	0	0
2	2022	4	0	0	0	0	0	0	0
3.1	2022	4	0	0	0	0	0	0	0
4	2022	4	0	0	0	0	0	0	0
1	2022	5	0	0	0	0	0	0	0
2	2022	5	0	0	0	0	0	0	0
3.1	2022	5	0	0	0	0	0	0	0
4	2022	5	0	0	0	0	0	0	0
1	2022	6	0	0	0	0	0	0	0
2	2022	6	0	0	0	0	0	0	0
3.1	2022	6	0	0	0	0	0	0	0
4	2022	6	0	0	0	0	0	0	0
1	2022	7	0	0	0	0	0	0	0
2	2022	7	0	0	0	0	0	0	0
3.1	2022	7	0	0	0	0	0	0	0
4	2022	7	0	0	0	0	0	0	0
1	2022	8	0	0	0	0	0	0	0
2	2022	8	0	0	0	0	0	0	0
3.1	2022	8	0	0	0	0	0	0	0
4	2022	8	0	0	0	0	0	0	0
1	2022	9	0	0	0	0	0	0	0
2	2022	9	0	0	0	0	0	0	0
3.1	2022	9	0	0	0	0	0	0	0
4	2022	9	0	0	0	0	0	0	0

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or6	or7	or8	or9	or10	or11	or12
1	2022	10	0	0	0	0	0	0	0
2	2022	10	0	0	0	0	0	0	0
3.1	2022	10	0	0	0	0	0	0	0
4	2022	10	0	0	0	0	0	0	0
1	2022	11	0	0	0	0	0	0	0
2	2022	11	0	0	0	0	0	0	0
3.1	2022	11	0	0	0	0	0	0	0
4	2022	11	0	0	0	0	0	0	0
1	2022	12	0	0	0	0	0	0	0
2	2022	12	0	0	0	0	0	0	0
3.1	2022	12	0	0	0	0	0	0	0
4	2022	12	0	0	0	0	0	0	0

The ARIMA Procedure

Conditional Least Squares Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > |t|	Approx	Lag	Variable
0	MU	-12.22793	1.67846	-7.29	<.0001		0	USAGE
0	MA1,1	-0.21396	0.10300	-2.08	0.0403		9	USAGE
0	MA2,1	0.64235	0.08013	8.02	<.0001		12	USAGE
0	AR1,1	0.41968	0.09470	4.43	<.0001		1	USAGE
0	NUM1	1.35500	0.04716	28.73	<.0001		0	BCDD65
0	NUM2	0.51065	0.01904	26.83	<.0001		0	BHDD55
0	NUM3	27.75854	3.88506	7.14	<.0001		0	MET_DAYS

Constant Estimate -7.09612
 Variance Estimate 387.2132
 Std Error Estimate 19.67773
 AIC 965.622
 SBC 984.4615
 Number of Residuals 109
 * AIC and SBC do not include log determinant.

Correlations of Parameter Estimates

Indiana Michigan Power Company - Indiana

MET_DAYS	Variable	USAGE	MU	USAGE	MA1,1	USAGE	MA2,1	USAGE	AR1,1	BCDD65	BHDD55
NUM3	Parameter									NUM1	NUM2
0.035	USAGE	1.000	MU	0.031	0.025	0.009	0.009	0.009	0.044	-0.090	0.044
0.165	USAGE	0.031	MA1,1	1.000	-0.063	0.169	0.169	0.169	-0.095	-0.121	-0.095
0.029	USAGE	0.025	MA2,1	-0.063	1.000	0.050	0.050	0.050	0.022	0.026	0.022
0.099	USAGE	0.009	AR1,1	0.169	0.050	1.000	1.000	1.000	-0.103	-0.222	-0.103
0.129	BCDD65	-0.090	NUM1	-0.121	0.026	-0.222	1.000	1.000	0.069	1.000	0.069
0.021	BHDD55	0.044	NUM2	-0.095	0.022	-0.103	0.069	0.069	1.000	0.069	1.000
1.000	MET_DAYS	0.035	NUM3	-0.165	-0.029	-0.099	-0.129	-0.129	0.021	-0.129	0.021

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Residential

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----
6	5.07	3	0.1667	0.027 -0.035 0.014 -0.137 -0.127
12	9.42	9	0.3992	0.092 0.127 -0.023 0.062 0.064
18	15.51	15	0.4152	0.015 0.032 0.122 -0.121 0.014
24	25.20	21	0.2387	-0.065 -0.129 0.021 0.205 -0.073
-0.082				
-0.055				
-0.125				
-0.036				

Indiana Michigan Power Company - Indiana

Autocorrelation Plot of Residuals

Std Error	Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
0	0	387.213	1.00000	|	|	|	|	|	|	|	|	|	|	1.00000	|	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
0.095783	1	10.308973	0.02662	|	|	|	|	|	|	|	|	|	|	0.02662	|	*	.	.	.	.	.	.	.	.	.
0.095850	2	-13.608971	-0.03515	|	|	|	|	|	|	|	|	|	|	-0.03515	|	.	*	.	.	.	.	.	.	.	.
0.095969	3	5.501574	0.01421	|	|	|	|	|	|	|	|	|	|	0.01421	|	.	.	.	.	.	.	.	.	.	.
0.095988	4	-53.023884	-0.13694	|	|	|	|	|	|	|	|	|	|	-0.13694	|	.	***	|	.	.	.	.	.	.	.
0.097764	5	-49.134326	-0.12689	|	|	|	|	|	|	|	|	|	|	-0.12689	|	.	***	|	.	.	.	.	.	.	.
0.099263	6	-31.849693	-0.08225	|	|	|	|	|	|	|	|	|	|	-0.08225	|	.	**	|	.	.	.	.	.	.	.
0.099887	7	35.684121	0.09216	|	|	|	|	|	|	|	|	|	|	0.09216	|	.	.	|	**	.	.	.	.	.	.
0.100664	8	49.234637	0.12715	|	|	|	|	|	|	|	|	|	|	0.12715	|	.	.	|	***	.	.	.	.	.	.
0.102126	9	-8.912007	-0.02302	|	|	|	|	|	|	|	|	|	|	-0.02302	|	.	.	|	.	.	.	.	.	.	.
0.102174	10	24.006938	0.06200	|	|	|	|	|	|	|	|	|	|	0.06200	|	.	.	|	*	.	.	.	.	.	.
0.102519	11	24.700107	0.06379	|	|	|	|	|	|	|	|	|	|	0.06379	|	.	.	|	*	.	.	.	.	.	.
0.102882	12	-21.146134	-0.05461	|	|	|	|	|	|	|	|	|	|	-0.05461	|	.	.	|	*	|	.	.	.	.	.
0.103148	13	5.704982	0.01473	|	|	|	|	|	|	|	|	|	|	0.01473	|	.	.	|	.	.	.	.	.	.	.
0.103167	14	12.291839	0.03174	|	|	|	|	|	|	|	|	|	|	0.03174	|	.	.	|	*	.	.	.	.	.	.

1	-0.03761	.	*	.
2	0.08271	.	**	.
3	-0.05734	.	*	.
4	0.12637	.	***	.
5	0.08765	.	**	.
6	0.02135	.	.	.
7	-0.03453	.	*	.
8	-0.13514	.	***	.
9	-0.01487	.	.	.
10	-0.09026	.	**	.
11	-0.07583	.	**	.
12	0.01877	.	.	.
13	-0.08064	.	**	.
14	0.06466	.	*	.
15	-0.10627	.	**	.
16	0.10799	.	**	.
17	-0.06323	.	*	.
18	0.14788	.	***	.
19	0.05333	.	*	.
20	0.12233	.	**	.
21	0.00498	.	.	.
22	-0.10575	.	**	.
23	0.10698	.	**	.
24	0.05590	.	*	.

Residential

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The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.02662	|	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.	.	.
2	-0.03588	|	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.	.	.
3	0.01616	|	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	-0.13936	|	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	-0.12033	|	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Indiana Michigan Power Company - Indiana

6	-0.09089				
7	0.09238		**		.
8	0.10888		**		.
9	-0.05058		*		.
10	0.02971			*	.
11	0.06206			*	.
12	-0.00435				.
13	0.05373			*	.
14	0.04298			*	.
15	0.13536			***	.
16	-0.12555		***		.
17	0.03775			*	.
18	-0.16774		***		.
19	-0.00976				.
20	-0.15837		***		.
21	0.01114				.
22	0.12753			***	.
23	-0.13353		***		.
24	-0.06722			*	.

Model for variable USAGE

Estimated Intercept -12.2279
Period(s) of Differencing 12
Residential

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The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.41968 B**(1)

Moving Average Factors

Factor 1: 1 + 0.21396 B**(9)

Factor 2: 1 - 0.64235 B**(12)

Input Number 1

Input Variable BCDD65
 Period(s) of Differencing 12
 Overall Regression Factor 1.355

Input Number 2

Input Variable BHDD55
 Period(s) of Differencing 12
 Overall Regression Factor 0.510653

Input Number 3

Input Variable MET_DAYS
 Period(s) of Differencing 12
 Overall Regression Factor 27.75854

Outlier Detection Summary

Maximum number searched 3
 Number found 3
 Significance used 0.05
 Residential

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The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq

Indiana Michigan Power Company - Indiana

44 AUG2012 Additive 34.43952 4.74 0.0294
103 JUL2017 Additive -35.54236 5.00 0.0254
51 MAR2013 Additive 33.11526 5.14 0.0234

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
122	1042.2926	19.6777	1003.7250 1080.8602
123	932.5570	21.3404	890.7306 974.3834
124	773.8429	21.6200	731.4684 816.2174
125	639.7711	21.6689	597.3009 682.2414
126	725.8812	21.6775	683.3941 768.3683
127	938.9764	21.6790	896.4863 981.4664
128	965.1178	21.6793	922.6272 1007.6084
129	873.1335	21.6793	830.6428 915.6242
130	653.3278	21.6793	610.8371 695.8185
131	671.5381	22.0859	628.2505 714.8256
132	966.9175	22.1567	923.4911 1010.3438
133	1164.0386	22.1692	1120.5878 1207.4894
134	1035.1289	23.3557	989.3525 1080.9053
135	922.1679	23.5585	875.9941 968.3418
136	760.6631	23.5941	714.4195 806.9066
137	628.8975	23.6003	582.6417 675.1532
138	716.6111	23.6014	670.3531 762.8690
139	929.5469	23.6016	883.2886 975.8052
140	952.5156	23.6016	906.2573 998.7740
141	859.9944	23.6017	813.7360 906.2528
142	643.8249	23.6017	597.5665 690.0833
143	660.4538	23.6498	614.1010 706.8066
144	955.1695	23.6583	908.8001 1001.5389
145	1152.0121	23.6598	1105.6397 1198.3844

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The ARIMA Procedure

Indiana Michigan Power Company - Indiana

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
146	1022.9855	24.7164	974.5423 1071.4287
147	909.9755	24.8978	861.1766 958.7743
148	748.4500	24.9297	699.5888 797.3112
149	616.6758	24.9353	567.8036 665.5480
150	704.3857	24.9362	655.5116 753.2599
151	917.3201	24.9364	868.4456 966.1945
152	940.2882	24.9364	891.4136 989.1627
153	847.7667	24.9365	798.8921 896.6412
154	631.5971	24.9365	582.7225 680.4716
155	648.2259	24.9821	599.2620 697.1898
156	942.9416	24.9901	893.9619 991.9212
157	1139.7842	24.9915	1090.8017 1188.7666

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The ARIMA Procedure

Conditional Least Squares Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
0	MU	-73.66775	10.90734	-6.75	<.0001	0	USAGE
0	AR1,1	0.36312	0.10143	3.58	0.0005	1	USAGE
0	AR1,2	0.23145	0.10284	2.25	0.0266	2	USAGE
0	AR2,1	-0.42556	0.09823	-4.33	<.0001	12	USAGE
0	AR3,1	-0.28893	0.10788	-2.68	0.0087	20	USAGE

Indiana Michigan Power Company - Indiana

0	NUM1	4.20522	0.17404	24.16	<.0001	0	BCDD65
0	NUM2	0.86207	0.07149	12.06	<.0001	0	BHDD55
0	NUM3	766.12951	37.55141	20.40	<.0001	0	com1
0	NUM4	189.15615	13.39080	14.13	<.0001	0	MET_DAYS

Constant Estimate -54.8794
Variance Estimate 6532.669
Std Error Estimate 80.82493
AIC 1275.453
SBC 1299.676
Number of Residuals 109
* AIC and SBC do not include log determinant.

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The ARIMA Procedure

Correlations of Parameter Estimates

Variable	USAGE	USAGE	USAGE	USAGE	USAGE	BCDD65	BHDD55
com1 MET_DAYS	AR1,1	AR1,2	AR2,1	AR3,1	NUM1	NUM2	
NUM3	MU						
0.004	MU	1.000	-0.012	-0.043	-0.039	0.056	-
0.082	AR1,1	-0.011	0.038	-0.068	-0.072	0.058	-
0.144	AR1,2	-0.025	0.130	0.012	0.023	-0.139	

Indiana Michigan Power Company - Indiana

0.007	USAGE	AR2,1	-0.012	0.038	0.130	1.000	0.021	-0.005	-0.028	-
	0.054									
0.077	USAGE	AR3,1	-0.043	-0.068	0.012	0.021	1.000	-0.106	-0.060	-
	0.016									
0.042	BCDD65	NUM1	-0.039	-0.072	0.023	-0.005	-0.106	1.000	-0.052	-
	-0.127									
0.055	BHDD55	NUM2	0.056	0.058	-0.139	-0.028	-0.060	-0.052	1.000	-
	-0.014									
1.000	com1	NUM3	-0.004	-0.082	0.144	-0.007	-0.077	0.042	-0.055	-
	0.065									
0.065	MET_DAYS	NUM4	0.033	-0.116	0.083	0.054	0.016	-0.127	-0.014	-
	1.000									

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations
6	1.61	2	0.4482	0.006 -0.003 -0.045 0.077 0.053
12	6.62	8	0.5782	-0.013 0.011 -0.110 -0.128 -0.014
18	15.35	14	0.3544	-0.000 0.129 0.136 0.001 -0.152
24	25.03	20	0.2003	0.078 0.007 0.110 0.099 0.061

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
0	6532.669	1.00000	|*****|																						

Std Error

0

Indiana Michigan Power Company - Indiana

0.102384	15	889.143	0.13611	.	***.
0.104030	16	4.716650	0.00072	.	.
0.104030	17	-995.166	-.15234	.***	.
0.106057	18	619.057	0.09476	.	**.
0.106831	19	510.090	0.07808	.	**.
0.107354	20	47.986979	0.00735	.	.
0.107358	21	719.574	0.11015	.	**.
0.108390	22	645.894	0.09887	.	**.
0.109214	23	401.307	0.06143	.	*.
0.109531	24	-1259.451	-.19279	****	.

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
1	0.05929																							
2	-0.06257																							
3	0.00177																							
4	-0.11166																							
5	-0.13562																							
6	0.00955																							
7	0.11807																							
8	0.01947																							

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Indiana Michigan Power Company - Indiana

10	-0.12487	.	**	.
11	-0.00384	.		.
12	-0.12947	.	***	.

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The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
13	0.00100	.											.										.
14	0.17206	.											***.										***.
15	0.14038	.											***.										***.
16	0.00931	.											.										.
17	-0.13314	.											***.										.
18	0.06058	.											.										*
19	0.00566	.											.										.
20	-0.03520	.											.										*
21	0.14530	.											.										***.
22	0.10283	.											.										**.
23	0.06236	.											.										*
24	-0.14944	.											.										***.

Model for variable USAGE

Estimated Intercept -73.6677
Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 - 0.36312 B**(1) - 0.23145 B**(2)
Factor 2: 1 + 0.42556 B**(12)
Factor 3: 1 + 0.28893 B**(20)

Input Number 1

Input Variable BCDD65
Period(s) of Differencing 12
Overall Regression Factor 4.205217
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The ARIMA Procedure

Input Number 2

Input Variable BHDD55
Period(s) of Differencing 12
Overall Regression Factor 0.862071

Input Number 3

Input Variable com1
Period(s) of Differencing 12
Overall Regression Factor 766.1295

Input Number 4

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 189.1562

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

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The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
120	DEC2018	Additive	179.03217	5.52	0.0188
71	NOV2014	Shift	96.27781	6.37	0.0116
33	SEP2011	Additive	-132.15125	6.30	0.0121

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
122	6175.0247	80.8249	6016.6108 6333.4387
123	5908.6338	85.9886	5740.0992 6077.1684
124	5687.4182	90.8641	5509.3278 5865.5086
125	5683.7938	92.5256	5502.4469 5865.1406
126	6297.9326	93.4532	6114.7677 6481.0975
127	6856.5024	93.8675	6672.5255 7040.4794
128	6871.7811	94.0746	6687.3982 7056.1640
129	6770.4116	94.1730	6585.8358 6954.9873
130	6014.1005	94.2210	5829.4306 6198.7703
131	5483.1292	94.2442	5298.4140 5667.8444
132	6274.8524	94.2554	6090.1152 6459.5895
133	6546.9970	94.2608	6362.2492 6731.7449
134	6099.0625	105.3880	5892.5057 6305.6192
135	5842.8971	106.8065	5633.5602 6052.2340
136	5615.8001	108.1839	5403.7634 5827.8367
137	5648.5573	108.6698	5435.5685 5861.5462
138	6267.4750	108.9429	6053.9507 6480.9992
139	6848.9377	109.0658	6635.1726 7062.7027

Indiana Michigan Power Company - Indiana

140	6784.2988	109.1273	6570.4132	6998.1844
141	6730.9602	109.1566	6517.0172	6944.9032
142	5937.3689	111.2706	5719.2824	6155.4553
143	5377.6082	111.5068	5159.0589	5596.1575
144	6216.5545	111.7676	5997.4941	6435.6149
145	6445.0763	111.8561	6225.8424	6664.3102

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The ARIMA Procedure

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
146	6025.7739	125.8544	5779.1037
147	5762.6192	127.4206	5512.8793
148	5539.8899	129.0724	5286.9127
149	5561.3579	129.6368	5307.2744
150	6177.0559	129.9595	5922.3400
151	6747.6073	130.1035	6492.6092
152	6716.7313	130.1759	6461.5913
153	6644.7576	130.2103	6389.5502
154	5868.5809	130.7017	5612.4102
155	5314.6685	130.7464	5058.4102
156	6135.7461	130.8035	5879.3760
157	6370.7394	130.8219	6114.3333

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Industrial

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Pr > t	Approx	Lag	Variable
-----------	----------	----------------	---------	---------	--------	-----	----------

Shift

Indiana Michigan Power Company - Indiana

0	MU	2419644.8	901082.2	2.69	0.0085	0	KWH
0	MA1,1	0.54613	0.09054	6.03	<.0001	12	KWH
0	AR1,1	0.28426	0.09986	2.85	0.0054	1	KWH
0	AR2,1	0.22115	0.10732	2.06	0.0420	3	KWH
0	AR3,1	0.25920	0.09857	2.63	0.0099	13	KWH
0	AR3,2	0.22058	0.10049	2.19	0.0305	22	KWH
0	NUM1	17088708	2785763.6	6.13	<.0001	0	ind1
0	NUM2	16496875	2938758.7	5.61	<.0001	0	ind2
0	NUM3	23542225	3485131.8	6.76	<.0001	0	ind3
0	NUM4	-9576281.8	4228438.3	-2.26	0.0257	0	ind4
0	NUM5	10501256	1606582.1	6.54	<.0001	0	MET_DAYS

Constant Estimate 701707
Variance Estimate 3.341E13
Std Error Estimate 5780104
AIC 3713.978
SBC 3743.583
Number of Residuals 109
* AIC and SBC do not include log determinant.

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The ARIMA Procedure

Indiana Michigan Power Company - Indiana

Correlations of Parameter Estimates

Variable ind3 Parameter NUM3	ind4 NUM4	MET_DAYS NUM5	KWH MU	KWH MA1,1	KWH AR1,1	KWH AR2,1	KWH AR3,1	KWH AR3,2	ind1 NUM1	ind2 NUM2
KWH			1.000	-0.022	0.024	0.061	0.026	0.006	-0.322	-0.001
0.040	-0.174	-0.057								
KWH	MA1,1	-0.022		1.000	-0.046	0.051	-0.047	0.017	0.030	-0.108
0.132	0.121	-0.043								
KWH	AR1,1	0.024		-0.046	1.000	-0.127	-0.019	0.019	-0.125	0.008
0.035	-0.109	0.041								
KWH	AR2,1	0.061		0.051	-0.127	1.000	0.031	0.030	-0.165	-0.030
0.302	-0.060	-0.235								
KWH	AR3,1	0.026		-0.047	-0.019	0.031	1.000	-0.177	-0.038	0.018
0.056	-0.130	0.014								
KWH	AR3,2	0.006		0.017	0.019	0.030	-0.177	1.000	-0.026	-0.003
0.022	-0.025	-0.074								
ind1	NUM1	-0.322		0.030	-0.125	-0.165	-0.038	-0.026	1.000	0.003
0.069	0.084	0.095								
ind2	NUM2	-0.001		-0.108	0.008	-0.030	0.018	-0.003	0.003	1.000
0.006	-0.012	0.052								
ind3	NUM3	-0.040		0.132	-0.035	-0.302	0.056	-0.022	0.069	0.006
1.000	0.019	0.475								
ind4	NUM4	-0.174		0.121	-0.109	-0.060	-0.130	-0.025	0.084	-0.012
0.019	1.000	-0.026								
MET_DAYS	NUM5	-0.057		-0.043	0.041	-0.235	0.014	-0.074	0.095	0.052
0.475	-0.026	1.000								

Autocorrelation Check of Residuals

To Lag	Chi- Square	DF	Pr > ChiSq
-----	-----	-----	-----Autocorrelations-----

Indiana Michigan Power Company - Indiana

0.097973	9	4.29502E12	0.12856	.	***.
0.099509	10	-1.0531E12	-.03152	.	*
0.099600	11	-2.163E11	-.00647	.	.
0.099604	12	2.34617E12	0.07022	.	*
0.100057	13	-1.0138E12	-.03034	.	*
0.100142	14	-9.8592E11	-.02951	.	*
0.100221	15	1.5092E11	0.00452	.	.
0.100223	16	-1.6448E12	-.04923	.	*
0.100445	17	1.01478E12	0.03037	.	*
0.100529	18	-2.7211E12	-.08145	.	**
0.101133	19	-3.2156E11	-.00962	.	.
0.101141	20	-3.3386E12	-.09993	.	**
0.102043	21	1.5363E12	0.04598	.	*
0.102233	22	-1.2633E11	-.00378	.	.
0.102234	23	-1.6385E11	-.00490	.	.
0.102236	24	-2.3767E12	-.07114	.	*

"," marks two standard errors

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1			
1	-0.00269																								
2	-0.12370											**													
3	0.00916																								
4	0.03137												*												
5	0.06900												*												
6	-0.00397																								
7	-0.00004																								
8	0.05902												*												
9	-0.13424											***													
10	0.05240												*												
11	0.01707																								
12	-0.08075											**													
13	0.04061												*												
14	0.02951												*												
15	-0.00207																								
16	0.03085												*												
17	-0.05445											*													
18	0.07200												*												
19	0.03952												*												
20	0.07823												**												
21	-0.02188												**												
22	-0.04702											*													
23	0.01860																								
24	0.09125												**												

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Industrial

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The ARIMA Procedure

Indiana Michigan Power Company - Indiana

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.03249											*											
2	0.11892											**											
3	0.00038																						
4	-0.04209											*											
5	-0.06049											*											
6	0.00448																						
7	0.00997																						
8	-0.06211											*											
9	0.12305											**											
10	-0.01376																						
11	-0.03973											*											
12	0.07390												*										
13	-0.02100																						
14	-0.03720											*											
15	0.00538												*										
16	-0.04308											*											
17	0.05013												*										
18	-0.09810											**											
19	-0.02241												**										
20	-0.06985											*											
21	0.01969																						
22	0.02708												*										
23	-0.01748																						
24	-0.09903											**											

Model for variable KWH

Estimated Intercept 2419645
 Period(s) of Differencing 12
 Industrial

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The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.28426 B**(1)
 Factor 2: 1 - 0.22115 B**(3)
 Factor 3: 1 - 0.2592 B**(13) - 0.22058 B**(22)

Moving Average Factors

Factor 1: 1 - 0.54613 B**(12)

Input Number 1

Input Variable	ind1	
Period(s) of Differencing	12	
Overall Regression Factor		17088708

Input Number 2

Input Variable	ind2	
Period(s) of Differencing	12	
Overall Regression Factor		16496875

Input Number 3

Input Variable	ind3	
Period(s) of Differencing	12	
Overall Regression Factor		23542225

Input Number 4

Input Variable	ind4	
Period(s) of Differencing	12	

Overall Regression Factor -9576282
Industrial

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The ARIMA Procedure

Input Number 5

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 10501256

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
45	SEP2012	Shift	-7882935.5	11.34	0.0008
23	NOV2010	Additive	-12996603	11.77	0.0006
51	MAR2013	Additive	-11492773	10.57	0.0012

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
122	281779095	5780104	270450300 293107891
123	279183743	6009087	267406148 290961338
124	277564279	6027210	265751165 289377392
125	280183385	6190169	268050876 292315894

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126	295589604	6203150	283431654	307747555
127	302419386	6204197	290259382	314579389
128	303092414	6212193	290916739	315268089
129	308442454	6212839	296265513	320619394
130	293903145	6212891	281726102	306080187
131	286722548	6213283	274544737	298900358

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Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits	
132	301310523	6213314	289132650	313488395
133	281585596	6213317	269407719	293763474
134	283114306	6750462	269883643	296344969
135	281633756	7115026	267688562	295578950
136	280767953	7143670	266766616	294769290
137	282479371	7184502	268398006	296560736
138	298692629	7205427	284570251	312815007
139	306737112	7207116	292611425	320862799
140	304993084	7209199	290863313	319122855
141	312088289	7210240	297956478	326220101
142	296396780	7210325	282264804	310528757
143	287996947	7210427	273864770	302129124
144	303651416	7327052	289290659	318012173
145	284342809	7336394	269963741	298721877
146	285590097	7829590	270244382	300935811
147	283712510	8021241	267991167	299433854
148	283135235	8069781	267318756	298951714
149	284486539	8112636	268586065	300387013
150	301370181	8125120	285445239	317295124
151	308944343	8127934	293013885	324874801
152	307716245	8130140	291781463	323651028
153	314448373	8130769	298512359	330384386
154	299216083	8130909	283279795	315152371

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155 290564236 8131017 274627735 306500736
156 305535005 8153202 289555024 321514986
157 286748738 8195948 270684974 302812502
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Conditional Least Squares Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
0	MU	-44502.3	10921.0	-4.07	<.0001	0	KWH
0	AR1,1	-0.45850	0.11678	-3.93	0.0002	12	KWH
0	NUM1	2427761.5	129043.2	18.81	<.0001	0	or1
0	NUM2	2578652.3	94834.9	27.19	<.0001	0	or2
0	NUM3	2425697.2	115299.0	21.04	<.0001	0	or3
0	NUM4	2675468.9	97973.5	27.31	<.0001	0	or4
0	NUM5	1982604.3	96810.5	20.48	<.0001	0	or5
0	NUM6	2750868.1	107871.3	25.50	<.0001	0	or6
0	NUM7	898064.8	94261.2	9.53	<.0001	0	or7
0	NUM8	-1692273.3	136439.3	-12.40	<.0001	0	or8
0	NUM9	2685689.1	100397.8	26.75	<.0001	0	or9
0	NUM10	-2333699.9	100952.6	-23.12	<.0001	0	or10

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0	NUM11	949627.9	146098.7	6.50	<.0001	0	or11
0	NUM12	-1432669.9	164498.5	-8.71	<.0001	0	or12
0	NUM13	-8162.3	48118.1	-0.17	0.8657	0	MET_DAYS

Constant Estimate -64906.7
Variance Estimate 2.569E10
Std Error Estimate 160286.6
AIC 2935.86
SBC 2976.23
Number of Residuals 109
* AIC and SBC do not include log determinant.
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Correlations of Parameter Estimates

Variable	KWH	KWH	or1	or2	or3	or4	or5
Parameter	MU	MU	NUM1	NUM2	NUM3	NUM4	NUM5
0.003	MU	1.000	-0.001	-0.001	-0.003	-0.025	0.002
-0.259	AR1,1	0.028	1.000	0.024	0.024	-0.238	-0.004
-0.020	NUM1	-0.001	0.008	0.002	0.586	-0.002	-0.274
-0.163	NUM2	-0.001	0.002	1.000	0.007	-0.021	-0.004
-0.053	NUM3	-0.003	0.024	0.586	1.000	-0.005	-0.242

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0.146	or4	NUM4	-0.025	-0.238	-0.002	-0.021	-0.005	1.000	0.001
0.034	or5	NUM5	0.002	-0.004	-0.274	-0.004	-0.242	0.001	1.000
1.000	or6	NUM6	0.003	-0.259	-0.020	-0.163	-0.053	0.146	0.034
0.022	or7	NUM7	-0.002	-0.119	-0.002	0.149	-0.006	0.026	0.003
-0.064	or8	NUM8	-0.009	0.010	0.008	0.007	0.022	0.205	-0.015
-0.149	or9	NUM9	0.002	0.074	0.014	0.018	0.037	-0.017	-0.025
-0.073	or10	NUM10	-0.004	0.031	0.007	0.009	0.018	-0.007	-0.013
0.059	or11	NUM11	-0.039	-0.054	-0.005	-0.007	-0.013	0.013	0.009
-0.093	or12	NUM12	-0.101	0.043	0.009	0.012	0.023	-0.008	-0.016
0.470	MET_DAYS	NUM13	0.021	-0.270	-0.043	-0.058	-0.115	0.061	0.078

Correlations of Parameter Estimates

Variable	or7	or8	or9	or10	or11	or12	
Parameter	NUM7	NUM8	NUM9	NUM10	NUM11	NUM12	
KWH	MU	-0.002	-0.009	0.002	-0.004	-0.039	-0.101
KWH	AR1,1	-0.119	0.010	0.074	0.031	-0.054	0.043
or1	NUM1	-0.002	0.008	0.014	0.007	-0.005	0.009
or2	NUM2	0.149	0.007	0.018	0.009	-0.007	0.012
or3	NUM3	-0.006	0.022	0.037	0.018	-0.013	0.023

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0.061	or4	NUM4	0.026	0.205	-0.017	-0.007	0.013	-0.008
0.078	or5	NUM5	0.003	-0.015	-0.025	-0.013	0.009	-0.016
0.470	or6	NUM6	0.022	-0.064	-0.149	-0.073	0.059	-0.093
0.059	or7	NUM7	1.000	-0.007	-0.018	-0.008	0.009	-0.011
0.187	or8	NUM8	-0.007	1.000	0.061	0.030	-0.021	0.039
0.322	or9	NUM9	-0.018	0.061	1.000	0.051	-0.256	0.065
0.159	or10	NUM10	-0.008	0.030	0.051	1.000	-0.018	0.032

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Correlations of Parameter Estimates

Variable	or7	or8	or9	or10	or11	or12	
MET_DAYS							
NUM13	NUM7	NUM8	NUM9	NUM10	NUM11	NUM12	
0.118	or11	NUM11	0.009	-0.021	-0.256	-0.018	1.000
0.203	or12	NUM12	-0.011	0.039	0.065	0.032	-0.020
1.000	MET_DAYS	NUM13	0.059	-0.187	-0.322	-0.159	0.118

Autocorrelation Check of Residuals

To Chi- Pr >

19	0.04142	|	|	|	|	|
20	-0.06695	|	|	|	|	|
21	-0.08265	|	|	|	|	|
22	0.03911	|	|	|	|	|
23	-0.00577	|	|	|	|	|
24	-0.07787	|	|	|	|	|

Model for variable KWH

Estimated Intercept -44502.3
 Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 + 0.4585 B**(12)

Input Number 1

Input Variable or1
 Period(s) of Differencing 12
 Overall Regression Factor 2427761

Input Number 2

Input Variable or2
 Period(s) of Differencing 12
 Overall Regression Factor 2578652
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Input Number 3

Input Variable or3
Period(s) of Differencing 12
Overall Regression Factor 2425697

Input Number 4

Input Variable or4
Period(s) of Differencing 12
Overall Regression Factor 2675469

Input Number 5

Input Variable or5
Period(s) of Differencing 12
Overall Regression Factor 1982604

Input Number 6

Input Variable or6
Period(s) of Differencing 12
Overall Regression Factor 2750868

Input Number 7

Input Variable or7
Period(s) of Differencing 12
Overall Regression Factor 898064.8

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Input Number 8

Input Variable	or8	
Period(s) of Differencing	12	
Overall Regression Factor		-1692273

Input Number 9

Input Variable	or9	
Period(s) of Differencing	12	
Overall Regression Factor		2685689

Input Number 10

Input Variable	or10	
Period(s) of Differencing	12	
Overall Regression Factor		-2333700

Input Number 11

Input Variable	or11	
Period(s) of Differencing	12	
Overall Regression Factor		949627.9

Input Number 12

Input Variable	or12	
Period(s) of Differencing	12	
Overall Regression Factor		-1432670

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Input Number 13

Input Variable MET_DAYS
 Period(s) of Differencing 12
 Overall Regression Factor -8162.29

Outlier Detection Summary

Maximum number searched 3
 Number found 3
 Significance used 0.05

Outlier Details

Obs	Time ID	Type	Estimate	Chi - Square	Approx Prob> ChiSq
39	MAR2012	Additive	-473454.8	82.15	<.0001
40	APR2012	Additive	-473452.5	83.87	<.0001
111	MAR2018	Additive	-522508.8	67.95	<.0001

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
122	5259461.4	160287	4945305.4 5573617.4
123	4875959.3	160287	4561803.3 5190115.3
124	4769937.8	160287	4455781.8 5084093.8
125	3923484.8	160287	3609328.8 4237640.8
126	3617605.3	160287	3303449.3 3931761.3
127	3815368.8	160287	3501212.8 4129524.8
128	4278372.4	160287	3964216.4 4592528.4
129	4718934.5	160287	4404778.5 5033090.5

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130 5356110.6 160287 5041954.6 5670266.6
131 5516758.5 160287 5202602.5 5830914.6
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Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
132	6077718.7	160287	5763562.7 6391874.8
133	6145702.5	160287	5831546.5 6459858.6
134	5224895.6	182278	4867638.1 5582153.1
135	4717810.7	182278	4360553.2 5075068.3
136	4821736.7	182278	4464479.2 5178994.2
137	3903999.0	182278	3546741.5 4261256.5
138	3571883.7	182278	3214626.2 3929141.2
139	3756939.9	182278	3399682.3 4114197.4
140	4227324.8	182278	3870067.3 4584582.3
141	4666037.3	182278	4308779.7 5023294.8
142	5302758.8	182278	4945501.3 5660016.3
143	5531030.4	182278	5173772.8 5888287.9
144	6085252.4	182278	5727994.9 6442509.9
145	6095228.0	182278	5737970.5 6452485.5
146	5175837.4	218502	4747581.0 5604093.8
147	4725415.6	218502	4297159.2 5153672.0
148	4733080.0	218502	4304823.6 5161336.4
149	3848026.6	218502	3419770.2 4276283.0
150	3527940.5	218502	3099684.1 3956196.9
151	3718823.0	218502	3290566.6 4147079.4
152	4185823.6	218502	3757567.2 4614080.0
153	4625384.1	218502	4197127.7 5053640.5
154	5262314.0	218502	4834057.6 5690570.4
155	5459580.0	218502	5031323.6 5887836.4
156	6016891.5	218502	5588635.1 6445147.9
157	6053464.0	218502	5625207.6 6481720.4

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2009	1	567,076,826	1,421				IMI
2	2009	1	394,536,092	7,624				IMI
3.1	2009	1	255,892,520					IMI
4	2009	1	6,808,929					IMI
1	2009	2	513,981,098	1,291				IMI
2	2009	2	366,824,901	7,156				IMI
3.1	2009	2	252,557,223					IMI
4	2009	2	5,633,689					IMI
1	2009	3	416,243,726	1,042				IMI
2	2009	3	332,548,074	6,431				IMI
3.1	2009	3	246,009,415					IMI
4	2009	3	5,549,914					IMI
1	2009	4	344,847,459	869				IMI
2	2009	4	328,150,270	6,392				IMI
3.1	2009	4	250,227,123					IMI
4	2009	4	4,807,947					IMI
1	2009	5	291,870,664	736				IMI
2	2009	5	324,220,331	6,328				IMI
3.1	2009	5	240,276,824					IMI
4	2009	5	4,333,022					IMI
1	2009	6	303,658,810	766				IMI
2	2009	6	350,875,235	6,835				IMI
3.1	2009	6	253,741,257					IMI
4	2009	6	4,013,439					IMI
1	2009	7	388,029,062	979				IMI
2	2009	7	386,440,858	7,521				IMI
3.1	2009	7	266,152,826					IMI
4	2009	7	3,855,975					IMI
1	2009	8	362,944,487	916				IMI
2	2009	8	367,950,298	7,177				IMI
3.1	2009	8	260,889,187					IMI
4	2009	8	5,038,066					IMI
1	2009	9	350,861,299	885				IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
2	2009	9	379,199,408	7,383				IMI
3.1	2009	9	276,499,597					IMI
4	2009	9	5,133,223					IMI
1	2009	10	309,526,300	782				IMI
2	2009	10	348,123,717	6,757				IMI
3.1	2009	10	262,166,666					IMI
4	2009	10	3,442,224					IMI
1	2009	11	319,093,020	804				IMI
2	2009	11	320,664,076	6,232				IMI
3.1	2009	11	252,554,610					IMI
4	2009	11	8,572,155					IMI
1	2009	12	432,807,010	1,088				IMI
2	2009	12	363,689,161	7,096				IMI
3.1	2009	12	266,092,377					IMI
4	2009	12	6,741,358					IMI
1	2010	1	558,976,224	1,403	1371.334	1448.47	-6.62746	IMI
2	2010	1	390,731,058	7,591	7443.013	7759.841	-9.9944	IMI
3.1	2010	1	258,416,295		2.5E+08	2.72E+08	-2428633	IMI
4	2010	1	3,976,310		3869492	4497804	-207338	IMI
1	2010	2	474,318,087	1,214	1144.237	1221.372	31.58631	IMI
2	2010	2	342,895,466	6,817	6655.98	6972.808	3.02018	IMI
3.1	2010	2	254,055,189		2.38E+08	2.61E+08	4598927	IMI
4	2010	2	5,955,156		5265634	5893946	375366.2	IMI
1	2010	3	415,203,342	1,019	1024.953	1102.088	-44.0889	IMI
2	2010	3	340,881,280	6,421	6193.8	6510.628	68.60514	IMI
3.1	2010	3	260,519,424		2.39E+08	2.61E+08	10491557	IMI
4	2010	3	5,536,630		5202070	5830382	20403.7	IMI
1	2010	4	316,979,424	797	779.98	857.1153	-21.4901	IMI
2	2010	4	329,090,863	6,383	6274.925	6591.753	-50.1663	IMI
3.1	2010	4	267,053,080		2.62E+08	2.84E+08	-5963106	IMI
4	2010	4	7,013,805		7024747	7653059	-325098	IMI
1	2010	5	273,901,231	691	624.9001	702.0354	27.04593	IMI
2	2010	5	319,297,175	6,205	6010.24	6327.068	36.83391	IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2010	5	267,555,378		2.47E+08	2.69E+08	9621339	IMI
4	2010	5	4,264,117		3973748	4602060	-23786.9	IMI
1	2010	6	361,755,890	911	879.3771	956.5124	-6.60145	IMI
2	2010	6	375,075,771	7,271	7175.961	7492.789	-62.9277	IMI
3.1	2010	6	284,348,228		2.7E+08	2.93E+08	2711498	IMI
4	2010	6	3,962,817		3654577	4282889	-5916.05	IMI
1	2010	7	457,255,237	1,152	1087.346	1164.481	25.97037	IMI
2	2010	7	399,485,567	7,741	7729.035	8045.863	-146.831	IMI
3.1	2010	7	289,914,608		2.72E+08	2.95E+08	6735949	IMI
4	2010	7	4,185,305		3498410	4126722	372738.7	IMI
1	2010	8	484,939,136	1,223	1178.807	1255.942	5.477829	IMI
2	2010	8	402,507,473	7,822	7799.248	8116.076	-136.06	IMI
3.1	2010	8	293,581,267		2.78E+08	3E+08	4736015	IMI
4	2010	8	4,597,254		4678561	5306873	-395463	IMI
1	2010	9	414,605,030	1,046	994.5082	1071.644	12.42804	IMI
2	2010	9	396,116,291	7,694	7515.586	7832.413	19.8199	IMI
3.1	2010	9	301,235,325		2.9E+08	3.12E+08	133316.1	IMI
4	2010	9	5,016,772		4775164	5403476	-72548.2	IMI
1	2010	10	292,654,139	738	729.0775	806.2128	-30.0779	IMI
2	2010	10	379,849,427	7,354	7188.911	7505.739	6.544624	IMI
3.1	2010	10	271,412,111		2.64E+08	2.86E+08	-3639262	IMI
4	2010	10	3,279,731		3087287	3715599	-121712	IMI
1	2010	11	301,422,726	759	760.3693	837.5046	-40.4366	IMI
2	2010	11	277,724,620	5,375	5220.984	5537.811	-4.53308	IMI
3.1	2010	11	263,644,670		2.66E+08	2.89E+08	-1.4E+07	IMI
4	2010	11	8,419,895		8210325	8838637	-104586	IMI
1	2010	12	442,372,066	1,113	1098.315	1175.45	-24.3749	IMI
2	2010	12	353,469,772	6,951	6982.868	7299.696	-190.468	IMI
3.1	2010	12	285,574,138		2.66E+08	2.89E+08	7975768	IMI
4	2010	12	3,865,076		3705336	4333648	-154416	IMI
1	2011	1	549,128,893	1,373	1342.147	1419.282	-7.54239	IMI
2	2011	1	378,551,876	7,264	7178.659	7495.487	-73.0146	IMI
3.1	2011	1	273,539,087		2.74E+08	2.96E+08	-1.1E+07	IMI

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Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
4	2011	1	6,624,647		6294445	6922757	16046.44	IMI
1	2011	2	483,938,224	1,242	1204.292	1281.427	-0.88437	IMI
2	2011	2	345,357,213	6,854	6709.84	7026.668	-14.432	IMI
3.1	2011	2	261,135,944		2.44E+08	2.66E+08	6234052	IMI
4	2011	2	8,177,895		8103363	8731675	-239624	IMI
1	2011	3	406,616,574	997	980.0924	1057.228	-21.3908	IMI
2	2011	3	338,340,984	6,309	6023.745	6340.572	126.6422	IMI
3.1	2011	3	285,613,662		2.74E+08	2.97E+08	105366.5	IMI
4	2011	3	5,429,380		5158209	5786521	-42985.4	IMI
1	2011	4	332,629,777	837	781.654	858.7893	16.77447	IMI
2	2011	4	303,917,969	5,885	5809.714	6126.541	-82.9206	IMI
3.1	2011	4	261,024,260		2.5E+08	2.72E+08	21658.21	IMI
4	2011	4	4,653,162		4230964	4859276	108041.7	IMI
1	2011	5	309,127,620	778	697.0148	774.1501	42.87653	IMI
2	2011	5	325,115,332	6,303	6116.173	6433	28.4191	IMI
3.1	2011	5	271,420,425		2.58E+08	2.81E+08	1636817	IMI
4	2011	5	4,237,423		3914988	4543300	8279.203	IMI
1	2011	6	355,307,025	896	868.4618	945.5971	-10.8983	IMI
2	2011	6	369,487,465	7,155	7035.833	7352.661	-39.0455	IMI
3.1	2011	6	291,442,224		2.8E+08	3.03E+08	-35484.2	IMI
4	2011	6	3,927,985		3605238	4233550	8591.019	IMI
1	2011	7	432,548,248	1,092	1034.93	1112.066	18.18368	IMI
2	2011	7	386,616,426	7,521	7388.108	7704.936	-25.9726	IMI
3.1	2011	7	280,190,915		2.71E+08	2.94E+08	-2483164	IMI
4	2011	7	4,114,658		3656125	4284437	144376.8	IMI
1	2011	8	506,164,486	1,275	1232.96	1310.095	3.552093	IMI
2	2011	8	424,625,202	8,195	7969.333	8286.161	67.75224	IMI
3.1	2011	8	307,795,774		2.87E+08	3.1E+08	9205097	IMI
4	2011	8	4,546,830		4418830	5047142	-186156	IMI
1	2011	9	385,359,315	971	945.0929	1022.228	-12.515	IMI
2	2011	9	380,858,181	7,382	7414.439	7731.267	-191.022	IMI
3.1	2011	9	302,439,578		2.94E+08	3.17E+08	-3146384	IMI
4	2011	9	2,962,360		2708177	3336489	-59972.8	IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2011	10	284,872,655	718	652.8869	730.0222	26.7909	IMI
2	2011	10	328,013,266	6,354	6132.187	6449.014	62.92119	IMI
3.1	2011	10	276,728,779		2.68E+08	2.91E+08	-2851785	IMI
4	2011	10	7,628,908		7385138	8013450	-70385.7	IMI
1	2011	11	302,099,142	761	709.8517	786.987	12.27697	IMI
2	2011	11	313,028,866	6,065	5765.733	6082.561	140.8934	IMI
3.1	2011	11	270,019,141		2.6E+08	2.83E+08	-1569241	IMI
4	2011	11	5,893,394		5686978	6315290	-107740	IMI
1	2011	12	418,775,891	1,053	987.3024	1064.438	26.99203	IMI
2	2011	12	356,707,507	6,924	6674.071	6990.899	91.18568	IMI
3.1	2011	12	282,373,805		2.67E+08	2.9E+08	4034366	IMI
4	2011	12	3,780,515		3492093	4120405	-25734.3	IMI
1	2012	1	484,007,122	1,215	1204.087	1281.222	-27.6767	IMI
2	2012	1	362,221,162	6,990	6869.35	7186.178	-37.7763	IMI
3.1	2012	1	273,789,653		2.67E+08	2.89E+08	-4378024	IMI
4	2012	1	9,246,394		8967794	9596106	-35555.6	IMI
1	2012	2	426,443,354	1,070	1032.404	1109.539	-0.93092	IMI
2	2012	2	329,925,997	6,382	6298.033	6614.861	-74.7759	IMI
3.1	2012	2	273,215,113		2.64E+08	2.86E+08	-1800590	IMI
4	2012	2	5,451,823		5332973	5961285	-195306	IMI
1	2012	3	376,855,219	946	892.042	969.1773	15.03672	IMI
2	2012	3	328,425,036	6,355	6105.716	6422.544	90.84336	IMI
3.1	2012	3	274,446,636		2.69E+08	2.91E+08	-5519508	IMI
4	2012	3	4,037,662		4197283	4825595	-473777	IMI
1	2012	4	296,464,225	745	739.0121	816.1474	-32.8987	IMI
2	2012	4	326,007,924	6,302	6089.746	6406.574	54.31141	IMI
3.1	2012	4	282,701,468		2.65E+08	2.87E+08	6605965	IMI
4	2012	4	4,982,458		5069366	5697678	-401064	IMI
1	2012	5	288,002,583	724	668.536	745.6713	16.55368	IMI
2	2012	5	324,946,457	6,282	6080.764	6397.591	42.77302	IMI
3.1	2012	5	283,764,215		2.63E+08	2.85E+08	9782318	IMI
4	2012	5	4,192,650		3871111	4499423	7382.598	IMI
1	2012	6	354,920,386	893	815.5823	892.7176	38.97419	IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
2	2012	6	365,451,368	7,068	6874.973	7191.801	34.48497	IMI
3.1	2012	6	296,271,451		2.82E+08	3.05E+08	3062165	IMI
4	2012	6	3,858,232		3565953	4194265	-21877.3	IMI
1	2012	7	483,118,407	1,215	1168.782	1245.917	7.932948	IMI
2	2012	7	412,485,611	7,966	7715.657	8032.485	91.58595	IMI
3.1	2012	7	296,171,395		2.82E+08	3.05E+08	2643397	IMI
4	2012	7	4,076,943		3767578	4395890	-4791.15	IMI
1	2012	8	476,098,673	1,198	1112.824	1189.959	46.86823	IMI
2	2012	8	394,473,457	7,626	7583.329	7900.156	-115.678	IMI
3.1	2012	8	298,502,949		2.91E+08	3.14E+08	-3813283	IMI
4	2012	8	4,499,283		4190898	4819210	-5771.39	IMI
1	2012	9	374,596,578	942	908.2321	985.3673	-4.70515	IMI
2	2012	9	377,850,074	7,286	7107.713	7424.54	20.25862	IMI
3.1	2012	9	295,146,292		2.91E+08	3.13E+08	-6929566	IMI
4	2012	9	4,908,302		4599320	5227632	-5173.63	IMI
1	2012	10	282,859,254	711	669.9513	747.0866	2.177336	IMI
2	2012	10	324,433,204	6,244	6126.6	6443.428	-41.1109	IMI
3.1	2012	10	274,278,854		2.72E+08	2.95E+08	-8942755	IMI
4	2012	10	5,575,962		5292757	5921069	-30950.8	IMI
1	2012	11	318,367,125	799	775.0823	852.2176	-14.4956	IMI
2	2012	11	313,828,249	6,051	5955.974	6272.802	-63.0536	IMI
3.1	2012	11	264,566,498		2.54E+08	2.77E+08	-739267	IMI
4	2012	11	5,925,909		5561228	6189540	50524.86	IMI
1	2012	12	399,501,951	1,002	972.5391	1049.674	-9.59269	IMI
2	2012	12	335,899,881	6,478	6424.967	6741.795	-105.83	IMI
3.1	2012	12	267,146,835		2.69E+08	2.92E+08	-1.4E+07	IMI
4	2012	12	6,482,057		6165095	6793407	2805.7	IMI
1	2013	1	486,564,866	1,215	1197.858	1274.993	-21.4833	IMI
2	2013	1	352,708,967	6,780	6677.734	6994.562	-56.4127	IMI
3.1	2013	1	262,864,380		2.61E+08	2.83E+08	-9305823	IMI
4	2013	1	6,437,834		6175621	6803933	-51943	IMI
1	2013	2	453,608,208	1,135	1066.342	1143.477	29.67841	IMI
2	2013	2	338,146,161	6,524	6209.306	6526.134	156.6713	IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2013	2	275,115,790		2.59E+08	2.81E+08	5001847	IMI
4	2013	2	3,731,903		3400504	4028816	17243.41	IMI
1	2013	3	436,849,200	1,091	1020.146	1097.282	32.50317	IMI
2	2013	3	333,606,696	6,525	6372.473	6689.301	-6.33879	IMI
3.1	2013	3	256,987,484		2.59E+08	2.82E+08	-1.4E+07	IMI
4	2013	3	5,310,092		4792096	5420408	203839.6	IMI
1	2013	4	373,187,162	936	883.7462	960.8815	13.41675	IMI
2	2013	4	320,791,411	6,093	6114.165	6430.993	-179.096	IMI
3.1	2013	4	279,902,189		2.62E+08	2.85E+08	6176455	IMI
4	2013	4	4,616,079		3967425	4595737	334498.2	IMI
1	2013	5	293,236,443	735	694.0323	771.1676	2.505311	IMI
2	2013	5	315,732,608	6,082	5887.753	6204.581	35.9067	IMI
3.1	2013	5	276,575,475		2.7E+08	2.93E+08	-4960893	IMI
4	2013	5	4,140,424		3834335	4462647	-8066.97	IMI
1	2013	6	318,773,368	800	781.5105	858.6458	-20.1008	IMI
2	2013	6	352,046,060	6,778	6606.041	6922.869	13.09062	IMI
3.1	2013	6	291,485,550		2.8E+08	3.03E+08	-113419	IMI
4	2013	6	3,812,213		3512005	4140318	-13948.5	IMI
1	2013	7	398,054,901	998	948.3461	1025.481	11.00016	IMI
2	2013	7	378,063,423	7,252	7030.184	7347.012	63.0265	IMI
3.1	2013	7	289,318,623		2.86E+08	3.09E+08	-7869787	IMI
4	2013	7	4,037,796		3715353	4343665	8286.735	IMI
1	2013	8	380,629,941	955	918.226	995.3613	-2.00118	IMI
2	2013	8	364,619,085	6,984	6769.452	7086.28	55.83589	IMI
3.1	2013	8	277,000,391		2.71E+08	2.93E+08	-5080216	IMI
4	2013	8	4,456,682		4142786	4771098	-259.585	IMI
1	2013	9	384,358,180	963	904.397	981.5323	19.6298	IMI
2	2013	9	382,516,636	7,355	7116.239	7433.067	80.02205	IMI
3.1	2013	9	310,188,022		3.02E+08	3.25E+08	-3127027	IMI
4	2013	9	4,916,747		4546341	5174653	56250.3	IMI
1	2013	10	298,602,925	743	694.3068	771.4421	9.974373	IMI
2	2013	10	344,515,393	6,584	6299.238	6616.065	125.9903	IMI
3.1	2013	10	285,552,737		2.67E+08	2.9E+08	6931659	IMI

Indiana Michigan Power Company - Indiana Short-Term Retail Energy Models Output Data									
revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS	
4	2013	10	5,605,816		5227675	5855987	63984.6	IMI	
1	2013	11	314,867,190	787	764.2371	841.3724	-15.6171	IMI	
2	2013	11	317,178,401	6,103	5951.146	6267.974	-7.04138	IMI	
3.1	2013	11	273,519,872		2.56E+08	2.79E+08	5748185	IMI	
4	2013	11	5,905,532		5532419	6160731	58957.34	IMI	
1	2013	12	440,923,938	1,099	1077.748	1154.884	-17.6126	IMI	
2	2013	12	350,533,611	6,736	6636.903	6953.731	-59.7266	IMI	
3.1	2013	12	280,988,437		2.68E+08	2.9E+08	1833194	IMI	
4	2013	12	6,462,146		6133845	6762157	14144.79	IMI	
1	2014	1	561,007,363	1,397	1326.363	1403.498	32.1809	IMI	
2	2014	1	378,261,660	7,263	7038.047	7354.875	66.20932	IMI	
3.1	2014	1	266,507,216		2.64E+08	2.86E+08	-8459409	IMI	
4	2014	1	6,454,505		6082960	6711272	57388.76	IMI	
1	2014	2	517,096,182	1,292	1251.348	1328.484	2.278649	IMI	
2	2014	2	348,592,821	6,732	6551.574	6868.402	21.94249	IMI	
3.1	2014	2	274,238,696		2.64E+08	2.86E+08	-840774	IMI	
4	2014	2	5,385,218		5066823	5695135	4239.213	IMI	
1	2014	3	463,231,621	1,154	1136.561	1213.697	-21.6121	IMI	
2	2014	3	339,717,275	6,534	6424.892	6741.72	-48.8993	IMI	
3.1	2014	3	280,776,412		2.64E+08	2.87E+08	5484127	IMI	
4	2014	3	5,345,169		4752592	5380904	278420.9	IMI	
1	2014	4	360,340,888	898	846.1071	923.2424	13.72936	IMI	
2	2014	4	316,898,483	6,093	5922.668	6239.495	12.06555	IMI	
3.1	2014	4	277,348,832		2.65E+08	2.88E+08	1135106	IMI	
4	2014	4	4,591,352		3994504	4622816	282692.5	IMI	
1	2014	5	287,799,066	720	678.154	755.2893	3.429593	IMI	
2	2014	5	317,872,783	6,117	6052.045	6368.872	-93.2854	IMI	
3.1	2014	5	283,960,969		2.73E+08	2.96E+08	-842517	IMI	
4	2014	5	4,153,436		3784403	4412715	54876.94	IMI	
1	2014	6	326,218,296	817	767.8803	845.0156	10.58272	IMI	
2	2014	6	349,790,475	6,731	6529.178	6846.005	43.67908	IMI	
3.1	2014	6	292,874,977		2.86E+08	3.09E+08	-4463611	IMI	
4	2014	6	3,812,377		3453893	4082205	44327.72	IMI	

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2014	7	381,094,705	955	939.9976	1017.133	-23.5125	IMI
2	2014	7	368,620,006	7,099	6990.678	7307.506	-50.5531	IMI
3.1	2014	7	292,795,780		2.81E+08	3.03E+08	926923.5	IMI
4	2014	7	3,999,504		3677068	4305380	8280.395	IMI
1	2014	8	344,237,727	860	829.9451	907.0804	-8.04752	IMI
2	2014	8	355,668,051	6,816	6563.895	6880.723	93.21327	IMI
3.1	2014	8	293,127,718		2.82E+08	3.05E+08	-514432	IMI
4	2014	8	4,416,886		4097323	4725635	5407.335	IMI
1	2014	9	372,306,924	931	889.8452	966.9805	2.098529	IMI
2	2014	9	378,985,564	7,274	7159.619	7476.447	-44.2563	IMI
3.1	2014	9	303,479,948		2.88E+08	3.11E+08	4211614	IMI
4	2014	9	4,880,269		4533637	5161950	32475.51	IMI
1	2014	10	273,534,296	684	630.7686	707.9039	14.97163	IMI
2	2014	10	323,674,497	6,219	6020.374	6337.202	40.22041	IMI
3.1	2014	10	274,282,090		2.7E+08	2.93E+08	-7291598	IMI
4	2014	10	5,634,498		5213559	5841871	106782.9	IMI
1	2014	11	306,798,838	765	742.5382	819.6735	-16.2523	IMI
2	2014	11	314,052,997	6,017	5784.483	6101.311	73.67419	IMI
3.1	2014	11	287,609,863		2.58E+08	2.81E+08	18026840	IMI
4	2014	11	5,894,645		5535374	6163686	45115.27	IMI
1	2014	12	449,054,635	1,117	1065.126	1142.261	13.09397	IMI
2	2014	12	362,181,704	6,934	6646.698	6963.525	128.9845	IMI
3.1	2014	12	302,185,072		2.81E+08	3.03E+08	10132244	IMI
4	2014	12	6,352,813		6089709	6718021	-51052.5	IMI
1	2015	1	499,425,204	1,243	1242.901	1320.037	-38.8487	IMI
2	2015	1	365,562,878	7,021	6786.309	7103.137	76.28564	IMI
3.1	2015	1	265,863,969		2.59E+08	2.81E+08	-4162616	IMI
4	2015	1	6,388,683		6066872	6695184	7655.091	IMI
1	2015	2	460,892,813	1,144	1125.236	1202.371	-20.0295	IMI
2	2015	2	341,840,791	6,542	6449.65	6766.478	-66.4081	IMI
3.1	2015	2	279,406,642		2.71E+08	2.93E+08	-2517843	IMI
4	2015	2	5,368,200		5021441	5649753	32603.15	IMI
1	2015	3	450,593,928	1,118	1110.759	1187.894	-31.1052	IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
2	2015	3	340,766,958	6,509	6367.315	6684.143	-17.0778	IMI
3.1	2015	3	279,567,989		2.66E+08	2.89E+08	2007176	IMI
4	2015	3	5,295,502		4945499	5573811	35847.14	IMI
1	2015	4	334,597,336	832	797.4215	874.5568	-3.49803	IMI
2	2015	4	320,085,173	6,127	5895.861	6212.689	72.46044	IMI
3.1	2015	4	282,688,797		2.76E+08	2.98E+08	-4372050	IMI
4	2015	4	4,584,471		4222159	4850471	48156.02	IMI
1	2015	5	274,260,117	685	652.4976	729.6329	-5.86886	IMI
2	2015	5	311,701,340	5,983	5855.508	6172.336	-30.9407	IMI
3.1	2015	5	281,240,595		2.69E+08	2.92E+08	1059907	IMI
4	2015	5	4,092,864		3768581	4396893	10127.45	IMI
1	2015	6	312,546,429	779	743.1406	820.2759	-3.07716	IMI
2	2015	6	350,290,619	6,678	6440.961	6757.789	79.06053	IMI
3.1	2015	6	305,259,935		2.86E+08	3.08E+08	8124289	IMI
4	2015	6	3,786,213		3434163	4062475	37893.85	IMI
1	2015	7	358,740,476	895	842.3858	919.5211	14.04733	IMI
2	2015	7	362,874,537	6,924	6720.725	7037.553	44.62646	IMI
3.1	2015	7	301,326,970		2.82E+08	3.04E+08	8266637	IMI
4	2015	7	3,975,032		3637209	4265521	23666.83	IMI
1	2015	8	388,965,560	972	931.1737	1008.309	2.164768	IMI
2	2015	8	370,326,223	7,078	6897.879	7214.707	21.40214	IMI
3.1	2015	8	302,005,321		2.91E+08	3.13E+08	86141.44	IMI
4	2015	8	4,391,419		4056463	4684775	20799.76	IMI
1	2015	9	365,295,088	911	887.9657	965.101	-15.6775	IMI
2	2015	9	378,348,564	7,240	7115.949	7432.776	-34.7658	IMI
3.1	2015	9	309,909,485		2.96E+08	3.18E+08	2773190	IMI
4	2015	9	4,843,610		4517477	5145789	11976.67	IMI
1	2015	10	285,072,504	711	652.72	729.8553	19.2938	IMI
2	2015	10	329,564,918	6,290	6139.731	6456.559	-8.37781	IMI
3.1	2015	10	286,672,220		2.75E+08	2.97E+08	696726.9	IMI
4	2015	10	5,491,090		5242596	5870908	-65662.1	IMI
1	2015	11	269,030,904	670	638.7897	715.925	-7.19765	IMI
2	2015	11	305,967,078	5,845	5653.889	5970.717	32.67505	IMI

Indiana Michigan Power Company - Indiana
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2015	11	272,305,121		2.65E+08	2.88E+08	-4089655	IMI
4	2015	11	5,823,333		5520565	6148877	-11388.4	IMI
1	2015	12	379,011,799	942	931.465	1008.6	-28.1637	IMI
2	2015	12	343,962,410	6,578	6537.239	6854.067	-117.55	IMI
3.1	2015	12	299,081,609		2.88E+08	3.11E+08	-230522	IMI
4	2015	12	6,420,427		6021575	6649887	84695.68	IMI
1	2016	1	445,260,561	1,105	1074.625	1151.76	-8.40962	IMI
2	2016	1	345,489,350	6,611	6496.634	6813.462	-43.5712	IMI
3.1	2016	1	272,989,279		2.65E+08	2.88E+08	-3745298	IMI
4	2016	1	3,665,152		3354989	3983301	-3993.36	IMI
1	2016	2	425,348,111	1,054	1024.073	1101.208	-8.8411	IMI
2	2016	2	332,898,536	6,324	6133.06	6449.888	32.70634	IMI
3.1	2016	2	279,807,084		2.71E+08	2.94E+08	-2521358	IMI
4	2016	2	8,022,910		7674401	8302713	34353.22	IMI
1	2016	3	359,360,901	891	845.121	922.2563	7.159185	IMI
2	2016	3	318,029,443	6,031	5873.245	6190.072	-0.72073	IMI
3.1	2016	3	285,177,818		2.72E+08	2.95E+08	1851399	IMI
4	2016	3	5,257,410		4939061	5567373	4193.234	IMI
1	2016	4	310,172,452	770	732.0361	809.1714	-1.05965	IMI
2	2016	4	307,273,237	5,854	5677.63	5994.458	18.11764	IMI
3.1	2016	4	285,631,096		2.71E+08	2.94E+08	3131671	IMI
4	2016	4	4,530,091		4208702	4837014	7232.863	IMI
1	2016	5	262,908,418	653	598.522	675.6573	16.28887	IMI
2	2016	5	301,234,210	5,737	5542.655	5859.483	35.63256	IMI
3.1	2016	5	281,153,481		2.73E+08	2.96E+08	-3209900	IMI
4	2016	5	4,074,395		3742499	4370811	17740.43	IMI
1	2016	6	327,594,330	815	765.3972	842.5325	10.55133	IMI
2	2016	6	346,935,732	6,594	6517.21	6834.038	-81.8934	IMI
3.1	2016	6	300,511,197		2.9E+08	3.13E+08	-1106102	IMI
4	2016	6	3,742,771		3418778	4047090	9837.181	IMI
1	2016	7	395,509,842	983	915.1632	992.2985	29.72086	IMI
2	2016	7	376,004,076	7,167	6832.077	7148.905	176.4059	IMI
3.1	2016	7	299,733,635		2.91E+08	3.14E+08	-2792367	IMI

Indiana Michigan Power Company - Indiana Short-Term Retail Energy Models Output Data									
revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS	
4	2016	7	3,948,025		3607572	4235884	26297.47	IMI	
1	2016	8	447,357,655	1,113	1079,442	1156,578	-5.14693	IMI	
2	2016	8	394,392,552	7,486	7306,842	7623,67	20.32006	IMI	
3.1	2016	8	305,686,085		2.9E+08	3.13E+08	4041821	IMI	
4	2016	8	4,399,849		4023753	4652065	61940.27	IMI	
1	2016	9	410,532,662	1,019	960,0204	1037,156	20.87243	IMI	
2	2016	9	394,550,586	7,503	7248,494	7565,322	95.62289	IMI	
3.1	2016	9	311,361,170		3.02E+08	3.25E+08	-2298869	IMI	
4	2016	9	4,835,559		4481262	5109574	40140.84	IMI	
1	2016	10	304,937,910	757	714,2135	791,3488	4,281262	IMI	
2	2016	10	346,185,279	6,582	6320,575	6637,403	103.3564	IMI	
3.1	2016	10	293,763,469		2.78E+08	3.01E+08	4082887	IMI	
4	2016	10	5,504,450		5177465	5805777	12828.58	IMI	
1	2016	11	265,599,386	658	645,7407	722,876	-25.8998	IMI	
2	2016	11	307,551,274	5,847	5749,991	6066,819	-61.3112	IMI	
3.1	2016	11	283,915,633		2.71E+08	2.94E+08	1563346	IMI	
4	2016	11	5,816,435		5477065	6105377	25214.38	IMI	
1	2016	12	402,933,180	995	973,4007	1050,536	-17.3687	IMI	
2	2016	12	350,823,457	6,654	6589,559	6906,387	-93.7597	IMI	
3.1	2016	12	298,709,333		2.88E+08	3.1E+08	-284267	IMI	
4	2016	12	6,422,849		6007997	6636309	100696	IMI	
1	2017	1	483,390,651	1,192	1168,896	1246,031	-15.1251	IMI	
2	2017	1	361,957,604	6,856	6643,895	6960,723	54.11719	IMI	
3.1	2017	1	283,834,295		2.67E+08	2.9E+08	5225259	IMI	
4	2017	1	6,331,045		5990995	6619307	25893.85	IMI	
1	2017	2	382,247,236	944	893,0155	970,1508	12.04847	IMI	
2	2017	2	319,932,942	6,067	5850,311	6167,139	58.30948	IMI	
3.1	2017	2	283,034,225		2.73E+08	2.95E+08	-888021	IMI	
4	2017	2	5,324,879		4982164	5610476	28558.69	IMI	
1	2017	3	336,739,679	831	788,0981	865,2334	4.529559	IMI	
2	2017	3	309,248,987	5,829	5677,907	5994,735	-7.04417	IMI	
3.1	2017	3	281,636,935		2.72E+08	2.94E+08	-1230531	IMI	
4	2017	3	5,252,880		4896181	5524493	42542.92	IMI	

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2017	4	303,967,569	751	727.6684	804.8037	-14.9699	IMI
2	2017	4	304,830,308	5,751	5562.639	5879.467	29.8108	IMI
3.1	2017	4	277,409,623		2.72E+08	2.95E+08	-6267990	IMI
4	2017	4	4,611,824		4177240	4805552	120427.8	IMI
1	2017	5	256,626,830	635	596.2828	673.418	-0.05187	IMI
2	2017	5	300,829,959	5,680	5521.374	5838.202	0.535961	IMI
3.1	2017	5	282,531,939		2.74E+08	2.97E+08	-3183401	IMI
4	2017	5	3,948,384		3704594	4332906	-70366.4	IMI
1	2017	6	303,483,255	751	706.0373	783.1726	6.753015	IMI
2	2017	6	336,727,684	6,358	6242.533	6559.361	-42.6756	IMI
3.1	2017	6	298,246,725		2.91E+08	3.14E+08	-4359327	IMI
4	2017	6	3,711,304		3383613	4011925	13534.86	IMI
1	2017	7	381,909,956	945	929.5938	1006.729	-23.1532	IMI
2	2017	7	366,776,081	6,925	6913.319	7230.147	-146.464	IMI
3.1	2017	7	302,918,123		2.86E+08	3.09E+08	5091478	IMI
4	2017	7	3,938,814		3581327	4209639	43330.99	IMI
1	2017	8	387,519,987	959	889.8296	966.9649	31.01959	IMI
2	2017	8	367,426,120	6,933	6804.037	7120.864	-29.0973	IMI
3.1	2017	8	302,708,418		2.97E+08	3.2E+08	-5476192	IMI
4	2017	8	4,383,317		4016440	4644752	52721.07	IMI
1	2017	9	327,813,930	810	763.3567	840.492	8.264895	IMI
2	2017	9	351,055,897	6,621	6542.02	6858.848	-79.236	IMI
3.1	2017	9	303,711,148		2.96E+08	3.19E+08	-4097900	IMI
4	2017	9	4,830,065		4460444	5088756	55465.02	IMI
1	2017	10	305,261,187	754	718.2188	795.3541	-2.53367	IMI
2	2017	10	343,455,646	6,475	6303.227	6620.055	13.03484	IMI
3.1	2017	10	299,792,901		2.82E+08	3.04E+08	6629202	IMI
4	2017	10	5,466,954		5118896	5747208	33901.71	IMI
1	2017	11	285,937,924	705	671.751	748.8863	-5.06353	IMI
2	2017	11	303,910,583	5,728	5589.8	5906.628	-19.8882	IMI
3.1	2017	11	285,828,085		2.75E+08	2.98E+08	-957051	IMI
4	2017	11	7,790,344		7776466	8404778	-300278	IMI
1	2017	12	398,988,079	982	936.3717	1013.507	6.936174	IMI

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
2	2017	12	343,954,511	6,474	6320.621	6637.449	-5.20652	IMI
3.1	2017	12	304,749,755		2.89E+08	3.12E+08	4100215	IMI
4	2017	12	3,696,034		3706956	4335268	-325078	IMI
1	2018	1	521,142,084	1,281	1264.514	1341.649	-22.4609	IMI
2	2018	1	368,175,936	6,920	6700.23	7017.058	61.17627	IMI
3.1	2018	1	290,344,628		2.72E+08	2.95E+08	7035663	IMI
4	2018	1	7,201,741		691.1573	7539885	-23987.9	IMI
1	2018	2	419,286,607	1,030	998.3186	1075.454	-7.1408	IMI
2	2018	2	328,627,577	6,178	6031.797	6348.625	-11.8392	IMI
3.1	2018	2	287,907,533		2.77E+08	2.99E+08	-150549	IMI
4	2018	2	5,327,409		4956749	5585061	56503.68	IMI
1	2018	3	364,077,657	895	832.5213	909.6566	23.57823	IMI
2	2018	3	311,171,500	5,840	5645.619	5962.447	35.50533	IMI
3.1	2018	3	284,873,315		2.74E+08	2.97E+08	-678747	IMI
4	2018	3	4,670,273		4878626	5506938	-522509	IMI
1	2018	4	352,397,853	867	811.6799	888.8152	16.67907	IMI
2	2018	4	315,648,589	5,936	5791.342	6108.17	-13.6111	IMI
3.1	2018	4	289,244,951		2.8E+08	3.03E+08	-2112015	IMI
4	2018	4	5,021,607		4191921	4820233	515529.9	IMI
1	2018	5	279,111,488	687	657.6072	734.7425	-8.98739	IMI
2	2018	5	309,130,087	5,806	5602.161	5918.989	45.44805	IMI
3.1	2018	5	288,293,245		2.75E+08	2.97E+08	2135476	IMI
4	2018	5	4,022,067		3626505	4254817	81406.25	IMI
1	2018	6	347,244,860	855	814.42	891.5553	2.084674	IMI
2	2018	6	357,718,914	6,724	6496.675	6813.503	68.69796	IMI
3.1	2018	6	301,082,691		2.91E+08	3.14E+08	-1089502	IMI
4	2018	6	2,222,490		1908334	2536646	1.37E-05	IMI
1	2018	7	422,487,924	1,040	989.0228	1066.158	12.54118	IMI
2	2018	7	381,997,636	7,156	7067.896	7384.724	-70.6521	IMI
3.1	2018	7	309,174,569		2.95E+08	3.18E+08	2882845	IMI
4	2018	7	3,831,620		3567356	4195668	-49892.5	IMI
1	2018	8	399,275,561	982	956.5315	1033.667	-12.7603	IMI
2	2018	8	372,146,162	6,979	6857.486	7174.314	-37.3305	IMI

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2018	8	309,026,232		3E+08	3.23E+08	-2666797	IMI
4	2018	8	4,307,545		4011579	4639891	-18189.8	IMI
1	2018	9	400,610,693	985	963.7946	1040.93	-17.3856	IMI
2	2018	9	383,234,694	7,140	7102.866	7419.694	-121.104	IMI
3.1	2018	9	314,481,036		2.97E+08	3.2E+08	5857199	IMI
4	2018	9	4,745,679		4453671	5081983	-22147.7	IMI
1	2018	10	308,016,906	756	728.5226	805.6579	-11.33	IMI
2	2018	10	339,807,588	6,361	6263.51	6580.338	-60.6303	IMI
3.1	2018	10	303,239,540		2.87E+08	3.09E+08	5184489	IMI
4	2018	10	5,380,575		5105194	5733506	-38774.6	IMI
1	2018	11	306,573,728	752	702.3128	779.4481	11.26869	IMI
2	2018	11	306,636,510	5,707	5684.655	6001.483	-136.505	IMI
3.1	2018	11	288,221,489		2.77E+08	2.99E+08	211243.3	IMI
4	2018	11	5,688,596		5240463	5868775	133977.2	IMI
1	2018	12	415,051,167	1,017	973.0983	1050.234	5.486733	IMI
2	2018	12	346,768,397	6,490	6170.561	6487.389	160.6828	IMI
3.1	2018	12	296,571,585		2.84E+08	3.07E+08	979131.3	IMI
4	2018	12	6,236,577		5834242	6462554	88179.2	IMI
1	2019	1	432,921,510	1,059	1043.035	1120.17	-22.6098	IMI
2	2019	1	337,721,687	6,306	6263.201	6580.029	-115.543	IMI
3.1	2019	1	279,203,960		2.69E+08	2.92E+08	-1274260	IMI
4	2019	1	6,178,768		5908909	6537221	-44297.1	IMI
1	2019	2		1,042	1003.725	1080.86		IMI
2	2019	2		6,175	6016.611	6333.439		IMI
3.1	2019	2	281,779,095		2.7E+08	2.93E+08		IMI
4	2019	2	5,259,461		4945305	5573617		IMI
1	2019	3		933	890.7306	974.3834		IMI
2	2019	3		5,909	5740.099	6077.168		IMI
3.1	2019	3	279,183,743		2.67E+08	2.91E+08		IMI
4	2019	3	4,875,959		4561803	5190115		IMI
1	2019	4		774	731.4684	816.2174		IMI
2	2019	4		5,687	5509.328	5865.509		IMI
3.1	2019	4	277,564,279		2.66E+08	2.89E+08		IMI

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
4	2019	4	4,769,938		4455782	5084094		IMI
1	2019	5		640	597.3009	682.2414		IMI
2	2019	5		5,684	5502.447	5865.141		IMI
3.1	2019	5	280,183,385		2.68E+08	2.92E+08		IMI
4	2019	5	3,923,485		3609329	4237641		IMI
1	2019	6		726	683.3941	768.3683		IMI
2	2019	6		6,298	6114.768	6481.098		IMI
3.1	2019	6	295,589,604		2.83E+08	3.08E+08		IMI
4	2019	6	3,617,605		3303449	3931761		IMI
1	2019	7		939	896.4863	981.4664		IMI
2	2019	7		6,857	6672.525	7040.479		IMI
3.1	2019	7	302,419,386		2.9E+08	3.15E+08		IMI
4	2019	7	3,815,369		3501213	4129525		IMI
1	2019	8		965	922.6272	1007.608		IMI
2	2019	8		6,872	6687.398	7056.164		IMI
3.1	2019	8	303,092,414		2.91E+08	3.15E+08		IMI
4	2019	8	4,278,372		3964216	4592528		IMI
1	2019	9		873	830.6428	915.6242		IMI
2	2019	9		6,770	6585.836	6954.987		IMI
3.1	2019	9	308,442,454		2.96E+08	3.21E+08		IMI
4	2019	9	4,718,935		4404779	5033091		IMI
1	2019	10		653	610.8371	695.8185		IMI
2	2019	10		6,014	5829.431	6198.77		IMI
3.1	2019	10	293,903,145		2.82E+08	3.06E+08		IMI
4	2019	10	5,356,111		5041955	5670267		IMI
1	2019	11		672	628.2505	714.8256		IMI
2	2019	11		5,483	5298.414	5667.844		IMI
3.1	2019	11	286,722,548		2.75E+08	2.99E+08		IMI
4	2019	11	5,516,759		5202603	5830915		IMI
1	2019	12		967	923.4911	1010.344		IMI
2	2019	12		6,275	6090.115	6459.59		IMI
3.1	2019	12	301,310,523		2.89E+08	3.13E+08		IMI
4	2019	12	6,077,719		5763563	6391875		IMI

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2020	1		1,164	1120.588	1207.489		IMI
2	2020	1		6,547	6362.249	6731.745		IMI
3.1	2020	1	281,585,596		2.69E+08	2.94E+08		IMI
4	2020	1	6,145,703		5831547	6459859		IMI
1	2020	2		1,035	989.3525	1080.905		IMI
2	2020	2		6,099	5892.506	6305.619		IMI
3.1	2020	2	283,114,306		2.7E+08	2.96E+08		IMI
4	2020	2	5,224,896		4867638	5582153		IMI
1	2020	3		922	875.9941	968.3418		IMI
2	2020	3		5,843	5633.56	6052.234		IMI
3.1	2020	3	281,633,756		2.68E+08	2.96E+08		IMI
4	2020	3	4,717,811		4360553	5075068		IMI
1	2020	4		761	714.4195	806.9066		IMI
2	2020	4		5,616	5403.763	5827.837		IMI
3.1	2020	4	280,767,953		2.67E+08	2.95E+08		IMI
4	2020	4	4,821,737		4464479	5178994		IMI
1	2020	5		629	582.6417	675.1532		IMI
2	2020	5		5,649	5435.568	5861.546		IMI
3.1	2020	5	282,479,371		2.68E+08	2.97E+08		IMI
4	2020	5	3,903,999		3546741	4261257		IMI
1	2020	6		717	670.3531	762.869		IMI
2	2020	6		6,267	6053.951	6480.999		IMI
3.1	2020	6	298,692,629		2.85E+08	3.13E+08		IMI
4	2020	6	3,571,884		3214626	3929141		IMI
1	2020	7		930	883.2886	975.8052		IMI
2	2020	7		6,849	6635.173	7062.703		IMI
3.1	2020	7	306,737,112		2.93E+08	3.21E+08		IMI
4	2020	7	3,756,940		3399682	4114197		IMI
1	2020	8		953	906.2573	998.774		IMI
2	2020	8		6,784	6570.413	6998.184		IMI
3.1	2020	8	304,993,084		2.91E+08	3.19E+08		IMI
4	2020	8	4,227,325		3870067	4584582		IMI
1	2020	9		860	813.736	906.2528		IMI

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
2	2020	9		6,731	6517.017	6944.903		IMI
3.1	2020	9	312,088,289		2.98E+08	3.26E+08		IMI
4	2020	9	4,666,037		4308780	5023295		IMI
1	2020	10		644	597.5665	690.0833		IMI
2	2020	10		5,937	5719.282	6155.455		IMI
3.1	2020	10	296,396,780		2.82E+08	3.11E+08		IMI
4	2020	10	5,302,759		4945501	5660016		IMI
1	2020	11		660	614.101	706.8066		IMI
2	2020	11		5,378	5159.059	5596.158		IMI
3.1	2020	11	287,996,947		2.74E+08	3.02E+08		IMI
4	2020	11	5,531,030		5173773	5888288		IMI
1	2020	12		955	908.8001	1001.539		IMI
2	2020	12		6,217	5997.494	6435.615		IMI
3.1	2020	12	303,651,416		2.89E+08	3.18E+08		IMI
4	2020	12	6,085,252		5727995	6442510		IMI
1	2021	1		1,152	1105.64	1198.384		IMI
2	2021	1		6,445	6225.842	6664.31		IMI
3.1	2021	1	284,342,809		2.7E+08	2.99E+08		IMI
4	2021	1	6,095,228		5737970	6452486		IMI
1	2021	2		1,023	974.5423	1071.429		IMI
2	2021	2		6,026	5779.104	6272.444		IMI
3.1	2021	2	285,590,097		2.7E+08	3.01E+08		IMI
4	2021	2	5,175,837		4747581	5604094		IMI
1	2021	3		910	861.1766	958.7743		IMI
2	2021	3		5,763	5512.879	6012.359		IMI
3.1	2021	3	283,712,510		2.68E+08	2.99E+08		IMI
4	2021	3	4,725,416		4297159	5153672		IMI
1	2021	4		748	699.5888	797.3112		IMI
2	2021	4		5,540	5286.913	5792.867		IMI
3.1	2021	4	283,135,235		2.67E+08	2.99E+08		IMI
4	2021	4	4,733,080		4304824	5161336		IMI
1	2021	5		617	567.8036	665.548		IMI
2	2021	5		5,561	5307.274	5815.441		IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2021	5	284,486,539		2.69E+08	3E+08		IMI
4	2021	5	3,848,027		3419770	4276283		IMI
1	2021	6		704	655.5116	753.2599		IMI
2	2021	6		6,177	5922.34	6431.772		IMI
3.1	2021	6	301,370,181		2.85E+08	3.17E+08		IMI
4	2021	6	3,527,940		3099684	3956197		IMI
1	2021	7		917	868.4456	966.1945		IMI
2	2021	7		6,748	6492.609	7002.605		IMI
3.1	2021	7	308,944,343		2.93E+08	3.25E+08		IMI
4	2021	7	3,718,823		3290567	4147079		IMI
1	2021	8		940	891.4136	989.1627		IMI
2	2021	8		6,717	6461.591	6971.871		IMI
3.1	2021	8	307,716,245		2.92E+08	3.24E+08		IMI
4	2021	8	4,185,824		3757567	4614080		IMI
1	2021	9		848	798.8921	896.6412		IMI
2	2021	9		6,645	6389.55	6899.965		IMI
3.1	2021	9	314,448,373		2.99E+08	3.3E+08		IMI
4	2021	9	4,625,384		4197128	5053640		IMI
1	2021	10		632	582.7225	680.4716		IMI
2	2021	10		5,869	5612.41	6124.752		IMI
3.1	2021	10	299,216,083		2.83E+08	3.15E+08		IMI
4	2021	10	5,262,314		4834058	5690570		IMI
1	2021	11		648	599.262	697.1898		IMI
2	2021	11		5,315	5058.41	5570.927		IMI
3.1	2021	11	290,564,236		2.75E+08	3.07E+08		IMI
4	2021	11	5,459,580		5031324	5887836		IMI
1	2021	12		943	893.9619	991.9212		IMI
2	2021	12		6,136	5879.376	6392.116		IMI
3.1	2021	12	305,535,005		2.9E+08	3.22E+08		IMI
4	2021	12	6,016,891		5588635	6445148		IMI
1	2022	1		1,140	1090.802	1188.767		IMI
2	2022	1		6,371	6114.333	6627.146		IMI
3.1	2022	1	286,748,738		2.71E+08	3.03E+08		IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
	4	2022	1	6,053,464	5625208	6481720		IMI
	1	2022	2					IMI
	2	2022	2					IMI
	3.1	2022	2					IMI
	4	2022	2					IMI
	1	2022	3					IMI
	2	2022	3					IMI
	3.1	2022	3					IMI
	4	2022	3					IMI
	1	2022	4					IMI
	2	2022	4					IMI
	3.1	2022	4					IMI
	4	2022	4					IMI
	1	2022	5					IMI
	2	2022	5					IMI
	3.1	2022	5					IMI
	4	2022	5					IMI
	1	2022	6					IMI
	2	2022	6					IMI
	3.1	2022	6					IMI
	4	2022	6					IMI
	1	2022	7					IMI
	2	2022	7					IMI
	3.1	2022	7					IMI
	4	2022	7					IMI
	1	2022	8					IMI
	2	2022	8					IMI
	3.1	2022	8					IMI
	4	2022	8					IMI
	1	2022	9					IMI
	2	2022	9					IMI
	3.1	2022	9					IMI
	4	2022	9					IMI

Indiana Michigan Power Company - Indiana
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
	1	2022	10					IMI
	2	2022	10					IMI
	3.1	2022	10					IMI
	4	2022	10					IMI
	1	2022	11					IMI
	2	2022	11					IMI
	3.1	2022	11					IMI
	4	2022	11					IMI
	1	2022	12					IMI
	2	2022	12					IMI
	3.1	2022	12					IMI
	4	2022	12					IMI

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2009	1	1.47E+08	109390	7382140	0	964.904	33.14872	9-Jan	1,346	0
2	2009	1	74462760	17085	4013750	0	964.904	33.61809	9-Jan	4,358	0
3.1	2009	1	42224913	1010	1973134	0	964.904	33.68508	9-Jan	0	0
4	2009	1	1228516	347	117925.2	0	964.904	31.453	9-Jan	0	0
1	2009	2	1.34E+08	108999	6751166	0	1101.796	30.33085	9-Feb	1,225	0
2	2009	2	68553690	17043	3817642	0	1101.796	30.13648	9-Feb	4,022	0
3.1	2009	2	42406568	1009	1957724	0	1101.796	28.8828	9-Feb	0	0
4	2009	2	1051619	343	115765.5	0	1101.796	28.47135	9-Feb	0	0
1	2009	3	1.12E+08	110263	5737699	0	706.9101	29.11149	9-Mar	1,013	0
2	2009	3	63917868	17264	3607537	0	706.9101	29.32938	9-Mar	3,702	0
3.1	2009	3	39224919	1001	1837660	0	706.9101	29.60877	9-Mar	0	0
4	2009	3	1027596	345	114570.5	0	706.9101	30.71872	9-Mar	0	0
1	2009	4	96248602	109396	5032795	0.425435	391.957	30.31039	9-Apr	880	0
2	2009	4	61742286	17089	3462677	0.425435	391.957	30.42544	9-Apr	3,613	0
3.1	2009	4	43610032	998	1927617	0.425435	391.957	30.74475	9-Apr	0	0
4	2009	4	926234	343	114862.8	0.425435	391.957	30.10765	9-Apr	0	0
1	2009	5	81511195	109271	4362308	13.22123	150.0151	30.02047	9-May	746	0
2	2009	5	61244273	17088	3489423	13.22123	150.0151	30.09401	9-May	3,584	0
3.1	2009	5	41198520	989	1905324	13.22123	150.0151	29.81987	9-May	0	0
4	2009	5	825921	347	112013.3	13.22123	150.0151	30.92297	9-May	0	0
1	2009	6	81811560	109196	4430362	54.55392	22.74444	30.38494	9-Jun	749	0
2	2009	6	64829248	17172	3672490	54.55392	22.74444	30.51031	9-Jun	3,775	0
3.1	2009	6	42192774	996	1919444	54.55392	22.74444	30.37414	9-Jun	0	0
4	2009	6	792334	346	112988	54.55392	22.74444	30.11374	9-Jun	0	0
1	2009	7	97546023	109210	5286788	162.3855	0.016363	30.01792	9-Jul	893	0
2	2009	7	72155016	17190	4132163	162.3855	0.016363	30.23352	9-Jul	4,197	0
3.1	2009	7	42632450	1000	1979798	162.3855	0.016363	30.59155	9-Jul	0	0
4	2009	7	808076	346	113356	162.3855	0.016363	30.85582	9-Jul	0	0
1	2009	8	98468414	109190	5330095	158.2129	0	28.82231	9-Aug	902	0
2	2009	8	73187401	17195	4158998	158.2129	0	28.97868	9-Aug	4,256	0
3.1	2009	8	44857089	993	2003530	158.2129	0	29.2384	9-Aug	0	0
4	2009	8	878169	343	114035.1	158.2129	0	30.7205	9-Aug	0	0
1	2009	9	95785602	109188	5189104	109.746	0	30.49741	9-Sep	877	0
2	2009	9	73067942	17185	4164730	109.746	0	30.71328	9-Sep	4,252	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2009	9	45554288	995	2019792	109.746	0	30.61038	9-Sep	0	0
4	2009	9	936675	343	114092.8	109.746	0	30.05065	9-Sep	0	0
1	2009	10	84007922	109179	4600036	24.87161	94.6594	29.41313	9-Oct	769	0
2	2009	10	64546860	17208	3794288	24.87161	94.6594	29.5614	9-Oct	3,751	0
3.1	2009	10	43957964	986	2064599	24.87161	94.6594	29.76326	9-Oct	0	0
4	2009	10	1036846	342	113774.3	24.87161	94.6594	30.89871	9-Oct	0	0
1	2009	11	88544334	109133	4757968	0	223.4518	29.25434	9-Nov	811	0
2	2009	11	62275665	17179	3633262	0	223.4518	29.49951	9-Nov	3,625	0
3.1	2009	11	40424947	982	1876027	0	223.4518	29.64101	9-Nov	0	0
4	2009	11	1080626	342	113681.2	0	223.4518	29.92637	9-Nov	0	0
1	2009	12	1.15E+08	109351	5994726	0	523.9238	32.21925	9-Dec	1,049	0
2	2009	12	68496222	17196	3853963	0	523.9238	32.2671	9-Dec	3,983	0
3.1	2009	12	47856084	976	1902370	0	523.9238	32.54659	9-Dec	0	0
4	2009	12	1180071	342	115834.1	0	523.9238	31.25442	9-Dec	0	0
1	2010	1	1.41E+08	109502	7219939	0	921.6405	32.75936	10-Jan	1,286	0
2	2010	1	72218790	17161	4003261	0	921.6405	33.12288	10-Jan	4,208	0
3.1	2010	1	43319793	980	1960308	0	921.6405	32.41044	10-Jan	0	0
4	2010	1	1168544	341	121662.7	0	921.6405	31.33619	10-Jan	0	0
1	2010	2	1.25E+08	107628	6481896	0	930.362	30.36375	10-Feb	1,166	0
2	2010	2	67002364	16856	3804938	0	930.362	30.2546	10-Feb	3,975	0
3.1	2010	2	43794012	975	2017147	0	930.362	29.48011	10-Feb	0	0
4	2010	2	1011348	339	120021.4	0	930.362	28.37014	10-Feb	0	0
1	2010	3	1.10E+08	111530	5772189	0	727.4783	29.38701	10-Mar	987	0
2	2010	3	62881005	17563	3652195	0	727.4783	29.03592	10-Mar	3,580	0
3.1	2010	3	42239694	989	1950648	0	727.4783	29.71224	10-Mar	0	0
4	2010	3	997983	347	119920.8	0	727.4783	30.74668	10-Mar	0	0
1	2010	4	88105862	109314	4735073	11.91219	270.9533	30.22382	10-Apr	806	0
2	2010	4	60935719	17190	3547279	11.91219	270.9533	30.63561	10-Apr	3,545	0
3.1	2010	4	43174475	974	1983947	11.91219	270.9533	30.14816	10-Apr	0	0
4	2010	4	900212	344	119913.4	11.91219	270.9533	30.17399	10-Apr	0	0
1	2010	5	77523409	109185	4246778	12.56671	100.5828	29.4903	10-May	710	0
2	2010	5	58830831	17135	3500687	12.56671	100.5828	29.55184	10-May	3,433	0
3.1	2010	5	42633229	969	1979892	12.56671	100.5828	29.47604	10-May	0	0
4	2010	5	823017	343	118882.9	12.56671	100.5828	30.78032	10-May	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2010	6	92481663	109369	5029505	124.8162	21.50085	30.62308	10-Jun	846	0
2	2010	6	69493829	17374	4013168	124.8162	21.50085	30.62186	10-Jun	4,000	0
3.1	2010	6	47806500	977	1986213	124.8162	21.50085	30.77952	10-Jun	0	0
4	2010	6	771907	341	118872.1	124.8162	21.50085	30.08346	10-Jun	0	0
1	2010	7	1.19E+08	109296	6373702	249.9433	0	30.29385	10-Jul	1,086	0
2	2010	7	77777461	17240	4406846	249.9433	0	30.51894	10-Jul	4,511	0
3.1	2010	7	46530552	970	2144993	249.9433	0	30.76654	10-Jul	0	0
4	2010	7	797443	342	121065	249.9433	0	30.9366	10-Jul	0	0
1	2010	8	1.31E+08	109234	8326261	329.9579	0	29.71584	10-Aug	1,195	0
2	2010	8	82799257	17362	5462621	329.9579	0	29.86256	10-Aug	4,769	0
3.1	2010	8	49261151	996	2659091	329.9579	0	29.67199	10-Aug	0	0
4	2010	8	803989	345	124818.9	329.9579	0	30.85249	10-Aug	0	0
1	2010	9	1.09E+08	109234	6827912	220.0974	0	30.21118	10-Sep	1,002	0
2	2010	9	76109552	17249	4934512	220.0974	0	30.41822	10-Sep	4,412	0
3.1	2010	9	46545768	967	2462052	220.0974	0	30.80446	10-Sep	0	0
4	2010	9	855179	340	119676.1	220.0974	0	29.97877	10-Sep	0	0
1	2010	10	79607338	109301	5523972	51.64132	39.58186	29.4483	10-Oct	728	0
2	2010	10	64720587	17321	4570774	51.64132	39.58186	29.49528	10-Oct	3,737	0
3.1	2010	10	45281023	980	2439654	51.64132	39.58186	29.78708	10-Oct	0	0
4	2010	10	1123718	341	140749.6	51.64132	39.58186	30.83827	10-Oct	0	0
1	2010	11	82131963	109407	5569707	5.007048	209.6088	28.95803	10-Nov	751	0
2	2010	11	59205184	17348	4178537	5.007048	209.6088	29.13675	10-Nov	3,413	0
3.1	2010	11	40370894	969	2366110	5.007048	209.6088	28.98989	10-Nov	0	0
4	2010	11	1053643	342	127831.4	5.007048	209.6088	29.90668	10-Nov	0	0
1	2010	12	1.18E+08	109347	8139288	0	639.5604	32.48148	10-Dec	1,084	0
2	2010	12	65691659	17115	3857273	0	639.5604	32.64795	10-Dec	3,838	0
3.1	2010	12	49947312	963	2956397	0	639.5604	32.99831	10-Dec	0	0
4	2010	12	1215642	339	120110.7	0	639.5604	31.33224	10-Dec	0	0
1	2011	1	1.42E+08	109413	9012341	0	932.3091	32.9259	11-Jan	1,296	0
2	2011	1	71321249	17168	4496815	0	932.3091	32.58798	11-Jan	4,154	0
3.1	2011	1	39305929	955	2218601	0	932.3091	32.66113	11-Jan	0	0
4	2011	1	1194488	339	117991.3	0	932.3091	31.25369	11-Jan	0	0
1	2011	2	1.22E+08	107045	7858696	0	1020.751	29.04958	11-Feb	1,140	0
2	2011	2	61635854	16952	4042110	0	1020.751	29.50877	11-Feb	3,636	0

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2011	2	33486706	945	2089620	0	1020.751	29.57571	11-Feb	0	0
4	2011	2	997963	334	115710.4	0	1020.751	28.23132	11-Feb	0	0
1	2011	3	1.08E+08	112172	7093611	0	730.9963	28.72288	11-Mar	967	0
2	2011	3	65102353	17999	4307001	0	730.9963	28.81224	11-Mar	3,617	0
3.1	2011	3	48705370	1035	2794135	0	730.9963	29.30488	11-Mar	0	0
4	2011	3	995440	348	115761.1	0	730.9963	30.67607	11-Mar	0	0
1	2011	4	94147833	109171	6373725	3.403484	457.3268	28.95774	11-Apr	862	0
2	2011	4	58548685	17307	3983558	3.403484	457.3268	29.00582	11-Apr	3,383	0
3.1	2011	4	38793628	978	2328887	3.403484	457.3268	29.6187	11-Apr	0	0
4	2011	4	858305	340	115825.8	3.403484	457.3268	29.95026	11-Apr	0	0
1	2011	5	84846582	109140	5851551	17.08287	163.1218	30.17504	11-May	777	0
2	2011	5	60106941	17340	4195299	17.08287	163.1218	30.48954	11-May	3,466	0
3.1	2011	5	40977342	978	2331203	17.08287	163.1218	30.38925	11-May	0	0
4	2011	5	770848	340	115023.5	17.08287	163.1218	30.88426	11-May	0	0
1	2011	6	92218422	109123	6369727	126.6652	21.53358	30.76833	11-Jun	845	0
2	2011	6	67813012	17379	4647347	126.6652	21.53358	30.85011	11-Jun	3,902	0
3.1	2011	6	40757193	971	2465421	126.6652	21.53358	31.04178	11-Jun	0	0
4	2011	6	701316	339	114597.8	126.6652	21.53358	30.19373	11-Jun	0	0
1	2011	7	1.13E+08	108972	6450817	237.0985	0	31.26489	11-Jul	1,036	0
2	2011	7	77276588	17310	4153581	237.0985	0	31.49013	11-Jul	4,464	0
3.1	2011	7	41555984	971	2021880	237.0985	0	30.6848	11-Jul	0	0
4	2011	7	736074	339	109436.1	237.0985	0	30.99153	11-Jul	0	0
1	2011	8	1.25E+08	109114	9578303	357.0385	0	29.56178	11-Aug	1,149	0
2	2011	8	81753553	17509	6441147	357.0385	0	29.42738	11-Aug	4,669	0
3.1	2011	8	45272560	978	3270158	357.0385	0	29.8899	11-Aug	0	0
4	2011	8	817486	341	119743.2	357.0385	0	30.89945	11-Aug	0	0
1	2011	9	1.01E+08	108938	6925030	180.761	3.730742	30.16508	11-Sep	930	0
2	2011	9	74858462	17387	5100171	180.761	3.730742	30.46039	11-Sep	4,305	0
3.1	2011	9	41864515	980	2482894	180.761	3.730742	30.95754	11-Sep	0	0
4	2011	9	891411	339	114968.3	180.761	3.730742	30.04156	11-Sep	0	0
1	2011	10	77703106	108876	5479036	29.27323	43.57441	29.55465	11-Oct	714	0
2	2011	10	63849091	17368	4401205	29.27323	43.57441	29.66962	11-Oct	3,676	0
3.1	2011	10	42128021	977	2364146	29.27323	43.57441	29.32974	11-Oct	0	0
4	2011	10	1019153	339	114644.8	29.27323	43.57441	30.88016	11-Oct	0	0

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Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2011	11	85844823	109025	5898239	4.843419	193.884	29.36237	11-Nov	787	0	0
2	2011	11	60387297	17367	4157426	4.843419	193.884	29.50203	11-Nov	3,477	0	0
3.1	2011	11	39818993	973	2385654	4.843419	193.884	29.90688	11-Nov	0	0	0
4	2011	11	1096349	339	116666.3	4.843419	193.884	29.98242	11-Nov	0	0	0
1	2011	12	1.08E+08	108957	7204014	0	446.7727	31.31672	11-Dec	992	0	0
2	2011	12	63386718	17350	4181645	0	446.7727	31.38549	11-Dec	3,653	0	0
3.1	2011	12	39488422	968	2339829	0	446.7727	32.09794	11-Dec	0	0	0
4	2011	12	1197617	339	145740.7	0	446.7727	31.92717	11-Dec	0	0	0
1	2012	1	1.22E+08	109081	8321528	0	663.1067	31.89957	12-Jan	1,120	0	0
2	2012	1	68731468	17408	4666262	0	663.1067	32.28325	12-Jan	3,948	0	0
3.1	2012	1	39200582	990	2378489	0	663.1067	32.28899	12-Jan	0	0	0
4	2012	1	1184161	340	97880.05	0	663.1067	31.05576	12-Jan	0	0	0
1	2012	2	1.12E+08	109153	8068134	0	754.8044	29.33967	12-Feb	1,024	0	0
2	2012	2	62834833	17360	4607545	0	754.8044	29.49891	12-Feb	3,620	0	0
3.1	2012	2	40327136	972	2550484	0	754.8044	29.78073	12-Feb	0	0	0
4	2012	2	988845	339	123890.3	0	754.8044	29.09618	12-Feb	0	0	0
1	2012	3	1.00E+08	109049	7035359	10.99587	536.4905	29.35122	12-Mar	920	0	0
2	2012	3	62129085	17346	4407118	10.99587	536.4905	29.48487	12-Mar	3,582	0	0
3.1	2012	3	37984663	970	2380331	10.99587	536.4905	28.78968	12-Mar	0	0	0
4	2012	3	949416	339	120947.8	10.99587	536.4905	30.81152	12-Mar	0	0	0
1	2012	4	80134141	108969	6126818	33.1676	157.0021	29.82342	12-Apr	735	0	0
2	2012	4	60220758	17341	4292228	33.1676	157.0021	30.19926	12-Apr	3,473	0	0
3.1	2012	4	38904027	965	2387040	33.1676	157.0021	30.4309	12-Apr	0	0	0
4	2012	4	843291	339	88629.78	33.1676	157.0021	29.9824	12-Apr	0	0	0
1	2012	5	79413172	109017	5784526	22.66262	130.2323	29.75901	12-May	728	0	0
2	2012	5	60488266	17381	4185484	22.66262	130.2323	29.93467	12-May	3,480	0	0
3.1	2012	5	38969394	961	2273209	22.66262	130.2323	29.66854	12-May	0	0	0
4	2012	5	791312	341	91634.38	22.66262	130.2323	30.88728	12-May	0	0	0
1	2012	6	93011071	108904	6720173	143.7481	8.62325	30.60797	12-Jun	854	0	0
2	2012	6	70289560	17416	4714246	143.7481	8.62325	30.68445	12-Jun	4,036	0	0
3.1	2012	6	43007071	964	2363805	143.7481	8.62325	30.81928	12-Jun	0	0	0
4	2012	6	687943	338	90000.34	143.7481	8.62325	30.09684	12-Jun	0	0	0
1	2012	7	1.34E+08	109030	9394761	363.7964	0.769056	31.03886	12-Jul	1,231	0	0
2	2012	7	88171641	17425	5641486	363.7964	0.769056	31.03906	12-Jul	5,060	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2012	7	41377754	957	2544029	363.7964	0.769056	30.64326	12-Jul	0	0
4	2012	7	728769	345	89696.77	363.7964	0.769056	31.02008	12-Jul	0	0
1	2012	8	1.21E+08	109118	8562634	321.5965	0	29.0943	12-Aug	1,112	0
2	2012	8	80851130	17455	5262597	321.5965	0	29.2293	12-Aug	4,632	0
3.1	2012	8	45062414	966	2559192	321.5965	0	29.69617	12-Aug	0	0
4	2012	8	811166	341	88114.42	321.5965	0	30.80974	12-Aug	0	0
1	2012	9	1.01E+08	108946	7222338	165.6744	1.489024	30.26838	12-Sep	924	0
2	2012	9	75225506	17454	4730273	165.6744	1.489024	30.63739	12-Sep	4,310	0
3.1	2012	9	42659641	972	2364362	165.6744	1.489024	30.80505	12-Sep	0	0
4	2012	9	891658	341	87405.82	165.6744	1.489024	30.07994	12-Sep	0	0
1	2012	10	79134350	109002	5661227	27.55513	72.7331	29.33897	12-Oct	726	0
2	2012	10	62465638	17456	4120387	27.55513	72.7331	29.58521	12-Oct	3,578	0
3.1	2012	10	36518795	964	2065380	27.55513	72.7331	29.42415	12-Oct	0	0
4	2012	10	1029596	341	79690.44	27.55513	72.7331	30.85256	12-Oct	0	0
1	2012	11	87814940	108982	6429340	6.414258	288.9689	29.70635	12-Nov	806	0
2	2012	11	61095201	17450	4204316	6.414258	288.9689	29.63003	12-Nov	3,501	0
3.1	2012	11	39356722	959	2416803	6.414258	288.9689	30.51658	12-Nov	0	0
4	2012	11	1093490	341	86976.08	6.414258	288.9689	29.99837	12-Nov	0	0
1	2012	12	1.07E+08	108980	7457798	0	446.6254	31.49274	12-Dec	977	0
2	2012	12	65149829	17431	4129844	0	446.6254	31.88841	12-Dec	3,738	0
3.1	2012	12	38244735	958	2267188	0	446.6254	31.80718	12-Dec	0	0
4	2012	12	1187449	341	84899.98	0	446.6254	31.06562	12-Dec	0	0
1	2013	1	1.26E+08	109296	8784392	0	721.1786	32.60149	13-Jan	1,154	0
2	2013	1	68216509	17501	4336235	0	721.1786	32.89268	13-Jan	3,898	0
3.1	2013	1	35484155	971	2358489	0	721.1786	32.57823	13-Jan	0	0
4	2013	1	1175528	340	87741.06	0	721.1786	31.28188	13-Jan	0	0
1	2013	2	1.17E+08	109178	8194240	0	856.238	29.17665	13-Feb	1,074	0
2	2013	2	63998954	17441	4231871	0	856.238	29.40269	13-Feb	3,669	0
3.1	2013	2	38627939	958	2252022	0	856.238	29.1332	13-Feb	0	0
4	2013	2	986706	339	88583.93	0	856.238	28.16601	13-Feb	0	0
1	2013	3	1.11E+08	109165	7818370	0	774.0799	29.19897	13-Mar	1,020	0
2	2013	3	63192341	17423	4159227	0	774.0799	29.47244	13-Mar	3,627	0
3.1	2013	3	36501780	963	2248530	0	774.0799	29.58656	13-Mar	0	0
4	2013	3	985730	341	88500.63	0	774.0799	30.7874	13-Mar	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2013	4	1.03E+08	109180	7392329	0	559.5295	30.55161	13-Apr	943	0	0
2	2013	4	62619440	17439	4126563	0	559.5295	30.67578	13-Apr	3,591	0	0
3.1	2013	4	38448035	959	2207730	0	559.5295	30.69527	13-Apr		0	0
4	2013	4	8506558	341	88505.82	0	559.5295	30.14508	13-Apr		0	0
1	2013	5	79851086	109031	5936999	23.98802	160.9128	29.13708	13-May	732	0	0
2	2013	5	61513732	17443	4190776	23.98802	160.9128	29.49962	13-May	3,527	0	0
3.1	2013	5	38415899	958	2225346	23.98802	160.9128	30.08543	13-May		0	0
4	2013	5	756155	340	88921.23	23.98802	160.9128	30.82779	13-May		0	0
1	2013	6	85948572	109093	6411785	99.14283	30.72953	30.74734	13-Jun	788	0	0
2	2013	6	66746422	17464	4415878	99.14283	30.72953	30.89549	13-Jun	3,822	0	0
3.1	2013	6	40411385	971	2367981	99.14283	30.72953	30.39474	13-Jun		0	0
4	2013	6	684522	340	89799.03	99.14283	30.72953	30.09302	13-Jun		0	0
1	2013	7	1.08E+08	109068	7731984	218.7066	0.441798	30.61922	13-Jul	987	0	0
2	2013	7	75968759	17509	4795044	218.7066	0.441798	30.76623	13-Jul	4,339	0	0
3.1	2013	7	43383979	962	2288136	218.7066	0.441798	30.67061	13-Jul		0	0
4	2013	7	720171	340	88462.06	218.7066	0.441798	30.96849	13-Jul		0	0
1	2013	8	1.01E+08	109052	7320836	178.0611	0	29.19533	13-Aug	929	0	0
2	2013	8	74176972	17516	4795035	178.0611	0	29.48794	13-Aug	4,235	0	0
3.1	2013	8	41190532	961	2413173	178.0611	0	29.91643	13-Aug		0	0
4	2013	8	807619	340	87018.17	178.0611	0	30.85966	13-Aug		0	0
1	2013	9	1.03E+08	108990	7570431	200.871	0.049089	30.11724	13-Sep	949	0	0
2	2013	9	78603007	17516	5018462	200.871	0.049089	30.48252	13-Sep	4,487	0	0
3.1	2013	9	43385677	960	2410829	200.871	0.049089	30.45348	13-Sep		0	0
4	2013	9	883182	340	86284.12	200.871	0.049089	30.03573	13-Sep		0	0
1	2013	10	78753871	108976	5956695	75.36753	21.6154	29.2519	13-Oct	723	0	0
2	2013	10	66412949	17511	4400064	75.36753	21.6154	29.50593	13-Oct	3,793	0	0
3.1	2013	10	41977111	956	2325693	75.36753	21.6154	29.44085	13-Oct		0	0
4	2013	10	1018318	357	84222.13	75.36753	21.6154	30.86157	13-Oct		0	0
1	2013	11	87629864	109066	6435490	6.790605	261.6101	29.85721	13-Nov	803	0	0
2	2013	11	61967577	17523	4070964	6.790605	261.6101	29.80898	13-Nov	3,536	0	0
3.1	2013	11	40326785	958	2148394	6.790605	261.6101	29.69477	13-Nov		0	0
4	2013	11	1083215	341	83342.87	6.790605	261.6101	30.03945	13-Nov		0	0
1	2013	12	1.15E+08	109240	8141743	0	671.3699	31.39998	13-Dec	1,053	0	0
2	2013	12	67923761	17535	4276104	0	671.3699	31.83145	13-Dec	3,874	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
3.1	2013	12	38512803	958	2229421	0	671.3699	32.41288	13-Dec	0	0	0
4	2013	12	1176082	342	82813.67	0	671.3699	31.11179	13-Dec	0	0	0
1	2014	1	1.45E+08	109268	10120283	0	990.3974	33.43442	14-Jan	1,327	0	0
2	2014	1	72933719	17516	4530912	0	990.3974	33.46154	14-Jan	4,164	0	0
3.1	2014	1	40938486	960	2191341	0	990.3974	32.79192	14-Jan	0	0	0
4	2014	1	1173015	341	84711.31	0	990.3974	31.3083	14-Jan	0	0	0
1	2014	2	1.31E+08	109199	9218519	0	1159.721	29.06039	14-Feb	1,200	0	0
2	2014	2	67085571	17491	4334352	0	1159.721	29.25309	14-Feb	3,835	0	0
3.1	2014	2	37702209	957	2168057	0	1159.721	29.33024	14-Feb	0	0	0
4	2014	2	978568	341	86420.32	0	1159.721	28.13383	14-Feb	0	0	0
1	2014	3	1.22E+08	109302	8638591	0	1006.089	29.41505	14-Mar	1,118	0	0
2	2014	3	66097603	17488	4280673	0	1006.089	29.48037	14-Mar	3,780	0	0
3.1	2014	3	39016936	960	2198355	0	1006.089	29.65191	14-Mar	0	0	0
4	2014	3	972409	339	86062.38	0	1006.089	30.85178	14-Mar	0	0	0
1	2014	4	98230136	109104	7236119	0.638153	542.9866	29.27113	14-Apr	900	0	0
2	2014	4	61156463	17465	4009008	0.638153	542.9866	29.60065	14-Apr	3,502	0	0
3.1	2014	4	38176845	953	2149925	0.638153	542.9866	30.41525	14-Apr	0	0	0
4	2014	4	832778	340	86159.6	0.638153	542.9866	29.97805	14-Apr	0	0	0
1	2014	5	82373923	108922	6258879	18.58826	147.5934	30.46769	14-May	756	0	0
2	2014	5	61052462	17478	4122617	18.58826	147.5934	30.68004	14-May	3,493	0	0
3.1	2014	5	38840176	955	2434933	18.58826	147.5934	30.21372	14-May	0	0	0
4	2014	5	748078	341	87404.73	18.58826	147.5934	30.9888	14-May	0	0	0
1	2014	6	85360739	108819	6531486	119.8419	33.69122	29.99602	14-Jun	784	0	0
2	2014	6	66220500	17516	4370412	119.8419	33.69122	30.43801	14-Jun	3,781	0	0
3.1	2014	6	39481675	954	1849825	119.8419	33.69122	30.30954	14-Jun	0	0	0
4	2014	6	675231	341	88440.44	119.8419	33.69122	30.0733	14-Jun	0	0	0
1	2014	7	1.01E+08	108747	7581998	205.0599	0	30.76841	14-Jul	931	0	0
2	2014	7	71519542	17521	4572644	205.0599	0	30.72367	14-Jul	4,082	0	0
3.1	2014	7	42058906	961	2401376	205.0599	0	30.86249	14-Jul	0	0	0
4	2014	7	711522	341	87733.66	205.0599	0	31.09849	14-Jul	0	0	0
1	2014	8	93129611	108711	7046860	153.6313	0	28.92463	14-Aug	857	0	0
2	2014	8	71209760	17544	4622650	153.6313	0	29.23496	14-Aug	4,059	0	0
3.1	2014	8	40648727	959	2358694	153.6313	0	29.45361	14-Aug	0	0	0
4	2014	8	789854	342	85780.69	153.6313	0	30.73436	14-Aug	0	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2014	9	1.01E+08	108724	7562943	210.067	3.223492	30.17422	14-Sep	929	0
2	2014	9	76591668	17544	4918709	210.067	3.223492	30.58219	14-Sep	4,366	0
3.1	2014	9	43952596	956	2480690	210.067	3.223492	30.48247	14-Sep	0	0
4	2014	9	871964	342	84947.55	210.067	3.223492	30.03456	14-Sep	0	0
1	2014	10	76707954	108701	5912985	31.7604	46.68336	29.39582	14-Oct	706	0
2	2014	10	62224827	17513	4168515	31.7604	46.68336	29.5348	14-Oct	3,553	0
3.1	2014	10	40123913	952	2243817	31.7604	46.68336	29.5922	14-Oct	0	0
4	2014	10	1008517	343	81628.37	31.7604	46.68336	30.85993	14-Oct	0	0
1	2014	11	83925034	108741	6293027	0.834508	275.4695	29.14245	14-Nov	772	0
2	2014	11	60419757	17484	4012614	0.834508	275.4695	29.44765	14-Nov	3,456	0
3.1	2014	11	39935907	954	2173145	0.834508	275.4695	29.62771	14-Nov	0	0
4	2014	11	1071264	343	80630.77	0.834508	275.4695	29.95525	14-Nov	0	0
1	2014	12	1.18E+08	108921	8486011	0	673.8244	31.95555	14-Dec	1,086	0
2	2014	12	68675302	17446	4275825	0	673.8244	32.15615	14-Dec	3,936	0
3.1	2014	12	39440443	935	2194336	0	673.8244	32.33955	14-Dec	0	0
4	2014	12	1173615	342	80518.89	0	673.8244	31.16621	14-Dec	0	0
1	2015	1	1.33E+08	109065	9405099	0	814.709	33.09185	15-Jan	1,215	0
2	2015	1	72656614	17608	4419392	0	814.709	33.13711	15-Jan	4,126	0
3.1	2015	1	37962443	965	2094573	0	814.709	32.5308	15-Jan	0	0
4	2015	1	1161488	344	81153.23	0	814.709	31.2367	15-Jan	0	0
1	2015	2	1.22E+08	109122	8700492	0	983.3941	29.59948	15-Feb	1,116	0
2	2015	2	66254638	17520	4217557	0	983.3941	29.46503	15-Feb	3,782	0
3.1	2015	2	47728390	947	2479674	0	983.3941	28.22923	15-Feb	0	0
4	2015	2	977327	343	83574.92	0	983.3941	28.25895	15-Feb	0	0
1	2015	3	1.17E+08	109206	8425648	0	1023.647	28.99269	15-Mar	1,071	0
2	2015	3	65753863	17533	4236588	0	1023.647	29.35933	15-Mar	3,750	0
3.1	2015	3	29870615	951	1819052	0	1023.647	28.66491	15-Mar	0	0
4	2015	3	960434	343	83449.32	0	1023.647	30.83088	15-Mar	0	0
1	2015	4	91817156	108928	6253425	0.261806	423.112	30.34493	15-Apr	843	0
2	2015	4	61657382	17528	3543669	0.261806	423.112	30.60251	15-Apr	3,518	0
3.1	2015	4	38658426	943	1635969	0.261806	423.112	30.69295	15-Apr	0	0
4	2015	4	828575	343	78153.17	0.261806	423.112	30.08116	15-Apr	0	0
1	2015	5	76169396	108836	5905804	24.33164	128.8251	29.53997	15-May	700	0
2	2015	5	60062687	17515	3980796	24.33164	128.8251	29.71433	15-May	3,429	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
3.1	2015	5	37656761	942	1969351	24.33164	128.8251	29.87177	15-May	0	0	0
4	2015	5	735501	343	84711.32	24.33164	128.8251	30.84841	15-May	0	0	0
1	2015	6	84024430	108787	6457599	108.5515	21.32086	30.37776	15-Jun	772	0	0
2	2015	6	67014212	17568	4290830	108.5515	21.32086	30.60751	15-Jun	3,815	0	0
3.1	2015	6	39982171	947	2098435	108.5515	21.32086	30.54011	15-Jun	0	0	0
4	2015	6	668358	343	86105.15	108.5515	21.32086	30.12259	15-Jun	0	0	0
1	2015	7	94575357	108858	7113590	151.226	0.196355	30.42799	15-Jul	869	0	0
2	2015	7	71181122	17593	4444800	151.226	0.196355	30.71938	15-Jul	4,046	0	0
3.1	2015	7	42251031	943	2223119	151.226	0.196355	30.70293	15-Jul	0	0	0
4	2015	7	704381	343	85324.86	151.226	0.196355	30.94783	15-Jul	0	0	0
1	2015	8	1.09E+08	108851	8056304	242.4328	0	29.54858	15-Aug	1,004	0	0
2	2015	8	78003322	17577	4800048	242.4328	0	29.62616	15-Aug	4,438	0	0
3.1	2015	8	43110980	939	2324261	242.4328	0	29.56229	15-Aug	0	0	0
4	2015	8	791810	343	82952.28	242.4328	0	30.83264	15-Aug	0	0	0
1	2015	9	1.00E+08	108902	7466501	183.5263	0.212718	30.2154	15-Sep	920	0	0
2	2015	9	76521972	17607	4787728	183.5263	0.212718	30.45994	15-Sep	4,346	0	0
3.1	2015	9	41339297	939	2263168	183.5263	0.212718	29.7626	15-Sep	0	0	0
4	2015	9	865211	342	81698.95	183.5263	0.212718	30.04541	15-Sep	0	0	0
1	2015	10	78594206	108873	6364340	54.16121	32.62763	29.26898	15-Oct	722	0	0
2	2015	10	65977680	17589	4471634	54.16121	32.62763	29.59887	15-Oct	3,751	0	0
3.1	2015	10	42425230	937	2398308	54.16121	32.62763	29.82303	15-Oct	0	0	0
4	2015	10	998793	342	77578.5	54.16121	32.62763	30.91595	15-Oct	0	0	0
1	2015	11	75774312	108944	6063514	1.276306	162.2382	28.8642	15-Nov	696	0	0
2	2015	11	60029934	17583	4058195	1.276306	162.2382	29.18473	15-Nov	3,414	0	0
3.1	2015	11	38998636	935	2271181	1.276306	162.2382	29.54043	15-Nov	0	0	0
4	2015	11	1055538	343	76212.36	1.276306	162.2382	29.90468	15-Nov	0	0	0
1	2015	12	1.02E+08	108989	8283258	0	422.8992	32.71101	15-Dec	935	0	0
2	2015	12	66018865	17541	4633249	0	422.8992	32.48193	15-Dec	3,764	0	0
3.1	2015	12	40084038	932	2558826	0	422.8992	32.98072	15-Dec	0	0	0
4	2015	12	1157524	342	81935.18	0	422.8992	31.21828	15-Dec	0	0	0
1	2016	1	1.21E+08	109076	8665721	0	660.9631	33.22115	16-Jan	1,105	0	0
2	2016	1	69010179	17527	4132645	0	660.9631	33.33621	16-Jan	3,937	0	0
3.1	2016	1	36797975	937	1851461	0	660.9631	32.44669	16-Jan	0	0	0
4	2016	1	1146034	342	70876.44	0	660.9631	31.25918	16-Jan	0	0	0

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2016	2	1.13E+08	109220	8144244	0	893.7254	29.61082	1,032	0	0
2	2016	2	65037148	17568	4050738	0	893.7254	29.73344	3,702	0	0
3.1	2016	2	34038576	931	1871451	0	893.7254	29.327	0	0	0
4	2016	2	957599	341	73748.53	0	893.7254	29.13437	0	0	0
1	2016	3	96733964	109237	6978788	0	644.7802	28.99322	886	0	0
2	2016	3	61573894	17608	3713386	0	644.7802	29.30532	3,497	0	0
3.1	2016	3	39860159	937	1902446	0	644.7802	30.32828	0	0	0
4	2016	3	949657	343	70340.4	0	644.7802	30.82302	0	0	0
1	2016	4	86068834	106935	7054656	0.11454	363.0274	30.43512	805	0	0
2	2016	4	60555865	17162	4222175	0.11454	363.0274	30.57766	3,528	0	0
3.1	2016	4	36942445	920	2415490	0.11454	363.0274	30.09788	0	0	0
4	2016	4	812297	341	81164.96	0.11454	363.0274	30.05186	0	0	0
1	2016	5	75712693	109078	5767780	4.630702	161.371	29.73083	694	0	0
2	2016	5	58721355	17580	3785106	4.630702	161.371	29.62206	3,340	0	0
3.1	2016	5	36438071	931	1934609	4.630702	161.371	29.74459	0	0	0
4	2016	5	731403	343	75979	4.630702	161.371	30.95986	0	0	0
1	2016	6	88477625	109117	6593396	111.4477	32.1531	30.58461	811	0	0
2	2016	6	69552811	17637	4267009	111.4477	32.1531	30.70294	3,944	0	0
3.1	2016	6	38836293	931	1976319	111.4477	32.1531	30.92147	0	0	0
4	2016	6	659719	343	77098.64	111.4477	32.1531	30.09143	0	0	0
1	2016	7	1.06E+08	109188	8227185	197.762	0	30.29092	972	0	0
2	2016	7	78849074	17625	5031114	197.762	0	30.62488	4,474	0	0
3.1	2016	7	39865956	930	2466307	197.762	0	30.35832	0	0	0
4	2016	7	693194	343	79322.76	197.762	0	30.89349	0	0	0
1	2016	8	1.20E+08	109210	8884503	291.3906	0	29.24721	1,099	0	0
2	2016	8	82978274	17674	5076172	291.3906	0	29.37598	4,695	0	0
3.1	2016	8	42518068	931	2575320	291.3906	0	29.69349	0	0	0
4	2016	8	783947	343	75474.9	291.3906	0	30.89321	0	0	0
1	2016	9	1.10E+08	109231	8335824	224.499	0	29.85995	1,007	0	0
2	2016	9	79295020	17670	4997588	224.499	0	30.17567	4,488	0	0
3.1	2016	9	41573904	928	2498086	224.499	0	30.6607	0	0	0
4	2016	9	857270	343	74914.74	224.499	0	30.01095	0	0	0
1	2016	10	81770094	109112	7012731	78.72193	13.59757	29.60395	749	0	0
2	2016	10	69257379	17675	5016649	78.72193	13.59757	29.81311	3,918	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2016	10	39516634	929	2873745	78.72193	13.59757	29.71543	16-Oct	0	0
4	2016	10	991153	343	78864.87	78.72193	13.59757	30.88837	16-Oct	0	0
1	2016	11	75217846	109312	6440660	7.559661	149.6224	29.39848	16-Nov	688	0
2	2016	11	61594731	17652	4523049	7.559661	149.6224	29.53898	16-Nov	3,489	0
3.1	2016	11	37350163	931	2768588	7.559661	149.6224	29.5616	16-Nov	0	0
4	2016	11	1048200	343	77707.7	7.559661	149.6224	29.98875	16-Nov	0	0
1	2016	12	1.05E+08	109486	8979565	0.098177	563.4893	32.08067	16-Dec	960	0
2	2016	12	67014009	17653	5002629	0.098177	563.4893	31.9464	16-Dec	3,796	0
3.1	2016	12	37883203	932	2847313	0.098177	563.4893	32.73334	16-Dec	0	0
4	2016	12	1139331	344	83453.92	0.098177	563.4893	31.11015	16-Dec	0	0
1	2017	1	1.29E+08	109599	8426801	0	877.8207	32.78951	17-Jan	1,178	0
2	2017	1	72128296	17652	4154502	0	877.8207	33.05559	17-Jan	4,086	0
3.1	2017	1	36346716	936	1855571	0	877.8207	32.56902	17-Jan	0	0
4	2017	1	1131893	344	68659.49	0	877.8207	31.2206	17-Jan	0	0
1	2017	2	1.05E+08	109645	7748844	0	705.8466	29.65786	17-Feb	962	0
2	2017	2	63868419	17601	4052849	0	705.8466	29.50705	17-Feb	3,629	0
3.1	2017	2	35396687	950	1875480	0	705.8466	29.31793	17-Feb	0	0
4	2017	2	945970	344	74837.49	0	705.8466	28.17411	17-Feb	0	0
1	2017	3	92536317	109799	7149660	0	532.5961	28.87734	17-Mar	843	0
2	2017	3	60858132	17611	4048574	0	532.5961	29.27485	17-Mar	3,456	0
3.1	2017	3	34884529	933	2077676	0	532.5961	29.33646	17-Mar	0	0
4	2017	3	935988	344	76649.88	0	532.5961	30.80603	17-Mar	0	0
1	2017	4	87115872	109567	7057515	2.045363	408.0908	29.58358	17-Apr	795	0
2	2017	4	59763421	17583	4235528	2.045363	408.0908	29.63318	17-Apr	3,399	0
3.1	2017	4	34662374	925	2297253	2.045363	408.0908	29.39617	17-Apr	0	0
4	2017	4	805154	344	81748.19	2.045363	408.0908	29.99976	17-Apr	0	0
1	2017	5	72921768	109591	6033028	17.50831	130.0524	28.86308	17-May	665	0
2	2017	5	58476379	17611	4176290	17.50831	130.0524	29.2895	17-May	3,320	0
3.1	2017	5	35333132	926	2322056	17.50831	130.0524	29.70903	17-May	0	0
4	2017	5	719123	344	82188.93	17.50831	130.0524	30.84346	17-May	0	0
1	2017	6	85033112	109652	6877054	82.46903	29.12597	30.77516	17-Jun	775	0
2	2017	6	68092756	17647	4627556	82.46903	29.12597	30.85829	17-Jun	3,859	0
3.1	2017	6	38093061	924	2440546	82.46903	29.12597	30.94622	17-Jun	0	0
4	2017	6	650936	344	83363.31	82.46903	29.12597	30.10888	17-Jun	0	0

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2017	7	1.03E+08	109675	7906734	185.2608	0	30.07503	17-Jul	942	0
2	2017	7	76614851	17638	4830480	185.2608	0	30.4233	17-Jul	4,344	0
3.1	2017	7	40851972	921	2095988	185.2608	0	30.32101	17-Jul	0	0
4	2017	7	687228	344	81019.61	185.2608	0	30.93002	17-Jul	0	0
1	2017	8	1.05E+08	109696	8069978	182.4464	0	29.492	17-Aug	961	0
2	2017	8	78076864	17669	4963602	182.4464	0	29.56256	17-Aug	4,419	0
3.1	2017	8	37857466	919	2305254	182.4464	0	29.80658	17-Aug	0	0
4	2017	8	774929	344	79139.26	182.4464	0	30.88491	17-Aug	0	0
1	2017	9	90712453	109790	8085166	92.92493	0	30.46691	17-Sep	826	0
2	2017	9	74528598	17694	5656191	92.92493	0	30.67976	17-Sep	4,212	0
3.1	2017	9	38338303	913	2982568	92.92493	0	30.88574	17-Sep	0	0
4	2017	9	849941	344	86728.59	92.92493	0	30.07468	17-Sep	0	0
1	2017	10	83361503	109801	7203678	106.3916	6.430621	29.24762	17-Oct	759	0
2	2017	10	69280943	17627	5112180	106.3916	6.430621	29.62573	17-Oct	3,930	0
3.1	2017	10	38319330	914	2748263	106.3916	6.430621	29.66509	17-Oct	0	0
4	2017	10	981577	344	81255.8	106.3916	6.430621	30.8735	17-Oct	0	0
1	2017	11	81427511	109868	7203789	6.087	274.815	29.34433	17-Nov	741	0
2	2017	11	60989181	17612	4706127	6.087	274.815	29.39896	17-Nov	3,463	0
3.1	2017	11	36164500	917	2735620	6.087	274.815	29.53472	17-Nov	0	0
4	2017	11	1039966	344	83150.64	6.087	274.815	29.98088	17-Nov	0	0
1	2017	12	1.06E+08	110018	7982340	0	570.6726	31.85555	17-Dec	964	0
2	2017	12	67007844	17602	4259181	0	570.6726	32.05336	17-Dec	3,807	0
3.1	2017	12	37568604	913	2046056	0	570.6726	32.66592	17-Dec	0	0
4	2017	12	1128240	346	72231.04	0	570.6726	31.09842	17-Dec	0	0
1	2018	1	1.36E+08	110164	9459504	0	1049.271	33.12487	18-Jan	1,233	0
2	2018	1	73011473	17610	4259438	0	1049.271	33.20843	18-Jan	4,146	0
3.1	2018	1	35674038	913	1850142	0	1049.271	32.44156	18-Jan	0	0
4	2018	1	1123009	345	69551.2	0	1049.271	31.23619	18-Jan	0	0
1	2018	2	1.12E+08	110177	7843341	0	920.4951	29.42232	18-Feb	1,016	0
2	2018	2	64873749	17649	3903326	0	920.4951	29.35502	18-Feb	3,676	0
3.1	2018	2	35697100	912	1712502	0	920.4951	29.48551	18-Feb	0	0
4	2018	2	937478	344	72828.39	0	920.4951	28.14341	18-Feb	0	0
1	2018	3	99669997	110151	7821836	0	692.069	29.02617	18-Mar	905	0
2	2018	3	62145659	17595	4220126	0	692.069	29.3986	18-Mar	3,532	0

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2018	3	34738713	905	2140867	0	692.069	29.47601	18-Mar	0	0
4	2018	3	931822	346	79316.71	0	692.069	30.86221	18-Mar	0	0
1	2018	4	98980011	110150	7257175	0	590.1772	30.63256	18-Apr	899	0
2	2018	4	62731157	18997	3973108	0	590.1772	30.46452	18-Apr	3,302	1
3.1	2018	4	35734376	940	2172075	0	590.1772	30.67995	18-Apr	0	0
4	2018	4	144073	219	7514.164	0	590.1772	30.14966	18-Apr	0	0
1	2018	5	80368366	110092	5114207	17.21377	242.4164	30.05007	18-May	730	0
2	2018	5	61531965	19856	3603851	17.21377	242.4164	29.61866	18-May	3,099	0
3.1	2018	5	35744448	950	1823383	17.21377	242.4164	29.91174	18-May	0	0
4	2018	5	711581	514	67879.19	17.21377	242.4164	30.39889	18-May	0	0
1	2018	6	92122059	110076	9934010	126.1089	5.18704	30.51313	18-Jun	837	0
2	2018	6	69891675	17668	5796281	126.1089	5.18704	30.81358	18-Jun	3,956	0
3.1	2018	6	37974645	900	3343832	126.1089	5.18704	30.74584	18-Jun	0	0
4	2018	6	645336	345	75635.24	126.1089	5.18704	30.06976	18-Jun	0	0
1	2018	7	1.16E+08	110282	10727792	231.6005	0	30.4679	18-Jul	1,052	0
2	2018	7	77788355	17690	6096878	231.6005	0	30.56581	18-Jul	4,397	0
3.1	2018	7	39605242	903	2943340	231.6005	0	30.56533	18-Jul	0	0
4	2018	7	681681	345	72270.62	231.6005	0	30.98126	18-Jul	0	0
1	2018	8	1.09E+08	110229	9764886	227.5916	0	29.31213	18-Aug	990	0
2	2018	8	78165044	17713	5737643	227.5916	0	29.41548	18-Aug	4,413	0
3.1	2018	8	39766675	901	2810620	227.5916	0	29.57719	18-Aug	0	0
4	2018	8	768161	345	65993.5	227.5916	0	30.89979	18-Aug	0	0
1	2018	9	1.07E+08	110159	9784362	217.9539	0	30.25166	18-Sep	976	0
2	2018	9	77319406	17682	5522441	217.9539	0	30.45685	18-Sep	4,373	0
3.1	2018	9	39968422	898	2224566	217.9539	0	30.80312	18-Sep	0	0
4	2018	9	842343	345	57771.51	217.9539	0	30.0051	18-Sep	0	0
1	2018	10	80492499	110284	7283376	87.00156	52.19766	29.17773	18-Oct	730	0
2	2018	10	64550403	17796	4664599	87.00156	52.19766	29.01257	18-Oct	3,627	0
3.1	2018	10	37714999	901	1947214	87.00156	52.19766	29.4209	18-Oct	0	0
4	2018	10	973132	345	48974.34	87.00156	52.19766	30.85524	18-Oct	0	0
1	2018	11	83209051	110168	8326367	9.392306	368.8362	29.29784	18-Nov	755	0
2	2018	11	58414889	17701	4792097	9.392306	368.8362	29.37468	18-Nov	3,300	0
3.1	2018	11	35795665	905	2633104	9.392306	368.8362	30.33065	18-Nov	0	0
4	2018	11	1033048	345	57659.89	9.392306	368.8362	29.97751	18-Nov	0	0

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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2018	12	1.12E+08	110212	10712986	0	689.2873	32.31583	18-Dec	1,012	0	0
2	2018	12	66900050	17671	5107091	0	689.2873	32.47583	18-Dec	3,786	0	0
3.1	2018	12	37017434	900	2656494	0	689.2873	31.75863	18-Dec		0	0
4	2018	12	1125984	345	55576.65	0	689.2873	31.1434	18-Dec		0	0
1	2019	1	1.18E+08	110384	11053633	0	702.4922	33.0595	19-Jan	1,070	0	0
2	2019	1	66107680	17594	4899746	0	702.4922	33.01717	19-Jan	3,757	0	0
3.1	2019	1	34614616	896	2423744	0	702.4922	32.80179	19-Jan		0	0
4	2019	1	1113913	346	54231.91	0	702.4922	31.18569	19-Jan		0	0
1	2019	2				0	890.7468	29.66564	19-Feb		0	0
2	2019	2				0	890.7468	29.74727	19-Feb		0	0
3.1	2019	2				0	890.7468	29.37471	19-Feb		0	0
4	2019	2				0	890.7468	28.51024	19-Feb		0	0
1	2019	3				0.599973	731.214	29.21614	19-Mar		0	0
2	2019	3				0.599973	731.214	29.35623	19-Mar		0	0
3.1	2019	3				0.599973	731.214	29.52103	19-Mar		0	0
4	2019	3				0.599973	731.214	30.29448	19-Mar		0	0
1	2019	4				3.792921	425.886	29.92376	19-Apr		0	0
2	2019	4				3.792921	425.886	30.14139	19-Apr		0	0
3.1	2019	4				3.792921	425.886	30.2202	19-Apr		0	0
4	2019	4				3.792921	425.886	30.04606	19-Apr		0	0
1	2019	5				19.1686	150.44	29.65087	19-May		0	0
2	2019	5				19.1686	150.44	29.75652	19-May		0	0
3.1	2019	5				19.1686	150.44	29.79022	19-May		0	0
4	2019	5				19.1686	150.44	30.81642	19-May		0	0
1	2019	6				91.60771	27.33478	30.60625	19-Jun		0	0
2	2019	6				91.60771	27.33478	30.76271	19-Jun		0	0
3.1	2019	6				91.60771	27.33478	30.7271	19-Jun		0	0
4	2019	6				91.60771	27.33478	30.18171	19-Jun		0	0
1	2019	7				219.2596	0.834508	30.43855	19-Jul		0	0
2	2019	7				219.2596	0.834508	30.63339	19-Jul		0	0
3.1	2019	7				219.2596	0.834508	30.70805	19-Jul		0	0
4	2019	7				219.2596	0.834508	30.93036	19-Jul		0	0
1	2019	8				240.8581	0	29.30903	19-Aug		0	0
2	2019	8				240.8581	0	29.4119	19-Aug		0	0

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Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
3.1	2019	8	8		240.8581	0	29.74719	19-Aug	0	0	0	0
4	2019	8	8		240.8581	0	30.82591	19-Aug	0	0	0	0
1	2019	9	9		177.3542	1.057044	30.32167	19-Sep	0	0	0	0
2	2019	9	9		177.3542	1.057044	30.58513	19-Sep	0	0	0	0
3.1	2019	9	9		177.3542	1.057044	30.70384	19-Sep	0	0	0	0
4	2019	9	9		177.3542	1.057044	30.08173	19-Sep	0	0	0	0
1	2019	10	10		52.67	49.7765	29.27849	19-Oct	0	0	0	0
2	2019	10	10		52.67	49.7765	29.42547	19-Oct	0	0	0	0
3.1	2019	10	10		52.67	49.7765	29.49678	19-Oct	0	0	0	0
4	2019	10	10		52.67	49.7765	30.83206	19-Oct	0	0	0	0
1	2019	11	11		4.927416	243.2842	29.07491	19-Nov	0	0	0	0
2	2019	11	11		4.927416	243.2842	29.25879	19-Nov	0	0	0	0
3.1	2019	11	11		4.927416	243.2842	29.66178	19-Nov	0	0	0	0
4	2019	11	11		4.927416	243.2842	29.9363	19-Nov	0	0	0	0
1	2019	12	12		0.016363	563.9556	31.88297	19-Dec	0	0	0	0
2	2019	12	12		0.016363	563.9556	32.06953	19-Dec	0	0	0	0
3.1	2019	12	12		0.016363	563.9556	32.5465	19-Dec	0	0	0	0
4	2019	12	12		0.016363	563.9556	31.21577	19-Dec	0	0	0	0
1	2020	1	1		0	826.5977	32.94553	20-Jan	0	0	0	0
2	2020	1	1		0	826.5977	33.13454	20-Jan	0	0	0	0
3.1	2020	1	1		0	826.5977	32.56309	20-Jan	0	0	0	0
4	2020	1	1		0	826.5977	31.31709	20-Jan	0	0	0	0
1	2020	2	2		0	890.7468	29.66564	20-Feb	0	0	0	0
2	2020	2	2		0	890.7468	29.74727	20-Feb	0	0	0	0
3.1	2020	2	2		0	890.7468	29.37471	20-Feb	0	0	0	0
4	2020	2	2		0	890.7468	28.51024	20-Feb	0	0	0	0
1	2020	3	3		0.599973	731.214	29.21614	20-Mar	0	0	0	0
2	2020	3	3		0.599973	731.214	29.35623	20-Mar	0	0	0	0
3.1	2020	3	3		0.599973	731.214	29.52103	20-Mar	0	0	0	0
4	2020	3	3		0.599973	731.214	30.29448	20-Mar	0	0	0	0
1	2020	4	4		3.792921	425.886	29.92376	20-Apr	0	0	0	0
2	2020	4	4		3.792921	425.886	30.14139	20-Apr	0	0	0	0
3.1	2020	4	4		3.792921	425.886	30.2202	20-Apr	0	0	0	0
4	2020	4	4		3.792921	425.886	30.04606	20-Apr	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
1	2020	5				19.1686	150.44	29.65087	20-May	0	0
2	2020	5				19.1686	150.44	29.75652	20-May	0	0
3.1	2020	5				19.1686	150.44	29.79022	20-May	0	0
4	2020	5				19.1686	150.44	30.81642	20-May	0	0
1	2020	6				91.60771	27.33478	30.60625	20-Jun	0	0
2	2020	6				91.60771	27.33478	30.76271	20-Jun	0	0
3.1	2020	6				91.60771	27.33478	30.7271	20-Jun	0	0
4	2020	6				91.60771	27.33478	30.18171	20-Jun	0	0
1	2020	7				219.2596	0.834508	30.43855	20-Jul	0	0
2	2020	7				219.2596	0.834508	30.63339	20-Jul	0	0
3.1	2020	7				219.2596	0.834508	30.70805	20-Jul	0	0
4	2020	7				219.2596	0.834508	30.93036	20-Jul	0	0
1	2020	8				240.8581	0	29.30903	20-Aug	0	0
2	2020	8				240.8581	0	29.4119	20-Aug	0	0
3.1	2020	8				240.8581	0	29.74719	20-Aug	0	0
4	2020	8				240.8581	0	30.82591	20-Aug	0	0
1	2020	9				177.3542	1.057044	30.32167	20-Sep	0	0
2	2020	9				177.3542	1.057044	30.58513	20-Sep	0	0
3.1	2020	9				177.3542	1.057044	30.70384	20-Sep	0	0
4	2020	9				177.3542	1.057044	30.08173	20-Sep	0	0
1	2020	10				52.67	49.7765	29.27849	20-Oct	0	0
2	2020	10				52.67	49.7765	29.42547	20-Oct	0	0
3.1	2020	10				52.67	49.7765	29.49678	20-Oct	0	0
4	2020	10				52.67	49.7765	30.83206	20-Oct	0	0
1	2020	11				4.927416	243.2842	29.07491	20-Nov	0	0
2	2020	11				4.927416	243.2842	29.25879	20-Nov	0	0
3.1	2020	11				4.927416	243.2842	29.66178	20-Nov	0	0
4	2020	11				4.927416	243.2842	29.9363	20-Nov	0	0
1	2020	12				0.016363	563.9556	31.88297	20-Dec	0	0
2	2020	12				0.016363	563.9556	32.06953	20-Dec	0	0
3.1	2020	12				0.016363	563.9556	32.5465	20-Dec	0	0
4	2020	12				0.016363	563.9556	31.21577	20-Dec	0	0
1	2021	1				0	826.5977	32.94553	21-Jan	0	0
2	2021	1				0	826.5977	33.13454	21-Jan	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
3.1	2021	1	1			0	826.5977	32.56309	21-Jan		0	0
4	2021	1	1			0	826.5977	31.31709	21-Jan		0	0
1	2021	2	2			0	890.7468	29.66564	21-Feb		0	0
2	2021	2	2			0	890.7468	29.74727	21-Feb		0	0
3.1	2021	2	2			0	890.7468	29.37471	21-Feb		0	0
4	2021	2	2			0	890.7468	28.51024	21-Feb		0	0
1	2021	3	3			0.599973	731.214	29.21614	21-Mar		0	0
2	2021	3	3			0.599973	731.214	29.35623	21-Mar		0	0
3.1	2021	3	3			0.599973	731.214	29.52103	21-Mar		0	0
4	2021	3	3			0.599973	731.214	30.29448	21-Mar		0	0
1	2021	4	4			3.792921	425.886	29.92376	21-Apr		0	0
2	2021	4	4			3.792921	425.886	30.14139	21-Apr		0	0
3.1	2021	4	4			3.792921	425.886	30.2202	21-Apr		0	0
4	2021	4	4			3.792921	425.886	30.04606	21-Apr		0	0
1	2021	5	5			19.1686	150.44	29.65087	21-May		0	0
2	2021	5	5			19.1686	150.44	29.75652	21-May		0	0
3.1	2021	5	5			19.1686	150.44	29.79022	21-May		0	0
4	2021	5	5			19.1686	150.44	30.81642	21-May		0	0
1	2021	6	6			91.60771	27.33478	30.60625	21-Jun		0	0
2	2021	6	6			91.60771	27.33478	30.76271	21-Jun		0	0
3.1	2021	6	6			91.60771	27.33478	30.7271	21-Jun		0	0
4	2021	6	6			91.60771	27.33478	30.18171	21-Jun		0	0
1	2021	7	7			219.2596	0.834508	30.43855	21-Jul		0	0
2	2021	7	7			219.2596	0.834508	30.63339	21-Jul		0	0
3.1	2021	7	7			219.2596	0.834508	30.70805	21-Jul		0	0
4	2021	7	7			219.2596	0.834508	30.93036	21-Jul		0	0
1	2021	8	8			240.8581	0	29.30903	21-Aug		0	0
2	2021	8	8			240.8581	0	29.4119	21-Aug		0	0
3.1	2021	8	8			240.8581	0	29.74719	21-Aug		0	0
4	2021	8	8			240.8581	0	30.82591	21-Aug		0	0
1	2021	9	9			177.3542	1.057044	30.32167	21-Sep		0	0
2	2021	9	9			177.3542	1.057044	30.58513	21-Sep		0	0
3.1	2021	9	9			177.3542	1.057044	30.70384	21-Sep		0	0
4	2021	9	9			177.3542	1.057044	30.08173	21-Sep		0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS	time	USAGE	com1	com2
1	2021	10				52.67	49.7765	29.27849	21-Oct		0	0
2	2021	10				52.67	49.7765	29.42547	21-Oct		0	0
3.1	2021	10				52.67	49.7765	29.49678	21-Oct		0	0
4	2021	10				52.67	49.7765	30.83206	21-Oct		0	0
1	2021	11				4.927416	243.2842	29.07491	21-Nov		0	0
2	2021	11				4.927416	243.2842	29.25879	21-Nov		0	0
3.1	2021	11				4.927416	243.2842	29.66178	21-Nov		0	0
4	2021	11				4.927416	243.2842	29.9363	21-Nov		0	0
1	2021	12				0.016363	563.9556	31.88297	21-Dec		0	0
2	2021	12				0.016363	563.9556	32.06953	21-Dec		0	0
3.1	2021	12				0.016363	563.9556	32.5465	21-Dec		0	0
4	2021	12				0.016363	563.9556	31.21577	21-Dec		0	0
1	2022	1				0	826.5977	32.94553	22-Jan		0	0
2	2022	1				0	826.5977	33.13454	22-Jan		0	0
3.1	2022	1				0	826.5977	32.56309	22-Jan		0	0
4	2022	1				0	826.5977	31.31709	22-Jan		0	0
1	2022	2				0	890.7468	29.66564	22-Feb		0	0
2	2022	2				0	890.7468	29.74727	22-Feb		0	0
3.1	2022	2				0	890.7468	29.37471	22-Feb		0	0
4	2022	2				0	890.7468	28.51024	22-Feb		0	0
1	2022	3				0.599973	731.214	29.21614	22-Mar		0	0
2	2022	3				0.599973	731.214	29.35623	22-Mar		0	0
3.1	2022	3				0.599973	731.214	29.52103	22-Mar		0	0
4	2022	3				0.599973	731.214	30.29448	22-Mar		0	0
1	2022	4				3.792921	425.886	29.92376	22-Apr		0	0
2	2022	4				3.792921	425.886	30.14139	22-Apr		0	0
3.1	2022	4				3.792921	425.886	30.2202	22-Apr		0	0
4	2022	4				3.792921	425.886	30.04606	22-Apr		0	0
1	2022	5				19.1686	150.44	29.65087	22-May		0	0
2	2022	5				19.1686	150.44	29.75652	22-May		0	0
3.1	2022	5				19.1686	150.44	29.79022	22-May		0	0
4	2022	5				19.1686	150.44	30.81642	22-May		0	0
1	2022	6				91.60771	27.33478	30.60625	22-Jun		0	0
2	2022	6				91.60771	27.33478	30.76271	22-Jun		0	0

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	CUST	BASE	BCDD65	BHDD55	MET_DAYS time	USAGE	com1	com2
3.1	2022	6				91.60771	27.33478	30.7271	22-Jun	0	0
4	2022	6				91.60771	27.33478	30.18171	22-Jun	0	0
1	2022	7				219.2596	0.834508	30.43855	22-Jul	0	0
2	2022	7				219.2596	0.834508	30.63339	22-Jul	0	0
3.1	2022	7				219.2596	0.834508	30.70805	22-Jul	0	0
4	2022	7				219.2596	0.834508	30.93036	22-Jul	0	0
1	2022	8				240.8581	0	29.30903	22-Aug	0	0
2	2022	8				240.8581	0	29.4119	22-Aug	0	0
3.1	2022	8				240.8581	0	29.74719	22-Aug	0	0
4	2022	8				240.8581	0	30.82591	22-Aug	0	0
1	2022	9				177.3542	1.057044	30.32167	22-Sep	0	0
2	2022	9				177.3542	1.057044	30.58513	22-Sep	0	0
3.1	2022	9				177.3542	1.057044	30.70384	22-Sep	0	0
4	2022	9				177.3542	1.057044	30.08173	22-Sep	0	0
1	2022	10				52.67	49.7765	29.27849	22-Oct	0	0
2	2022	10				52.67	49.7765	29.42547	22-Oct	0	0
3.1	2022	10				52.67	49.7765	29.49678	22-Oct	0	0
4	2022	10				52.67	49.7765	30.83206	22-Oct	0	0
1	2022	11				4.927416	243.2842	29.07491	22-Nov	0	0
2	2022	11				4.927416	243.2842	29.25879	22-Nov	0	0
3.1	2022	11				4.927416	243.2842	29.66178	22-Nov	0	0
4	2022	11				4.927416	243.2842	29.9363	22-Nov	0	0
1	2022	12				0.016363	563.9556	31.88297	22-Dec	0	0
2	2022	12				0.016363	563.9556	32.06953	22-Dec	0	0
3.1	2022	12				0.016363	563.9556	32.5465	22-Dec	0	0
4	2022	12				0.016363	563.9556	31.21577	22-Dec	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2009	1	0	0	0	0	0
2	2009	1	0	0	0	0	0
3.1	2009	1	0	0	0	0	0
4	2009	1	0	0	0	0	0
1	2009	2	0	0	0	0	0
2	2009	2	0	0	0	0	0
3.1	2009	2	0	0	0	0	0
4	2009	2	0	0	0	0	0
1	2009	3	0	0	0	0	0
2	2009	3	0	0	0	0	0
3.1	2009	3	0	0	0	0	0
4	2009	3	0	1	0	0	0
1	2009	4	0	0	0	0	0
2	2009	4	0	0	0	0	0
3.1	2009	4	0	0	0	0	0
4	2009	4	0	0	1	0	0
1	2009	5	0	0	0	0	0
2	2009	5	0	0	0	0	0
3.1	2009	5	0	0	0	0	0
4	2009	5	0	0	1	1	0
1	2009	6	0	0	0	0	0
2	2009	6	0	0	0	0	0
3.1	2009	6	0	0	0	0	0
4	2009	6	0	0	1	1	0
1	2009	7	0	0	0	0	0
2	2009	7	0	0	0	0	0
3.1	2009	7	0	0	0	0	0
4	2009	7	0	0	1	1	0
1	2009	8	0	0	0	0	0
2	2009	8	0	0	0	0	0
3.1	2009	8	0	0	0	0	0
4	2009	8	0	0	1	1	0
1	2009	9	0	0	0	0	0
2	2009	9	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2009	9	0	0	0	0	0
4	2009	9	0	0	1	1	0
1	2009	10	0	0	0	0	0
2	2009	10	0	0	0	0	0
3.1	2009	10	0	0	0	0	0
4	2009	10	0	0	1	1	0
1	2009	11	0	0	0	0	0
2	2009	11	0	0	0	0	0
3.1	2009	11	0	0	0	0	0
4	2009	11	0	0	1	1	0
1	2009	12	0	0	0	0	0
2	2009	12	0	0	0	0	0
3.1	2009	12	0	0	0	0	0
4	2009	12	0	0	1	1	0
1	2010	1	0	0	0	0	0
2	2010	1	0	0	0	0	0
3.1	2010	1	0	0	0	0	0
4	2010	1	0	0	1	1	0
1	2010	2	0	0	0	0	0
2	2010	2	0	0	0	0	0
3.1	2010	2	0	0	0	0	0
4	2010	2	0	0	1	1	0
1	2010	3	0	0	0	0	0
2	2010	3	0	0	0	0	0
3.1	2010	3	0	0	0	0	0
4	2010	3	0	0	1	1	0
1	2010	4	0	0	0	0	0
2	2010	4	0	0	0	0	0
3.1	2010	4	0	0	0	0	0
4	2010	4	0	0	1	1	0
1	2010	5	0	0	0	0	0
2	2010	5	0	0	0	0	0
3.1	2010	5	0	0	0	0	0
4	2010	5	0	0	1	1	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2010	6	0	0	0	0	0
2	2010	6	0	0	0	0	0
3.1	2010	6	0	0	0	0	0
4	2010	6	0	0	1	1	0
1	2010	7	0	0	0	0	0
2	2010	7	0	0	0	0	0
3.1	2010	7	0	0	0	0	0
4	2010	7	0	0	1	1	0
1	2010	8	0	0	0	0	0
2	2010	8	0	0	0	0	0
3.1	2010	8	0	0	0	0	0
4	2010	8	0	0	1	1	0
1	2010	9	0	0	0	0	0
2	2010	9	0	0	0	0	0
3.1	2010	9	0	0	0	0	0
4	2010	9	0	0	1	1	0
1	2010	10	0	0	0	0	0
2	2010	10	0	0	0	0	0
3.1	2010	10	0	0	0	0	0
4	2010	10	0	0	1	1	0
1	2010	11	0	0	0	0	0
2	2010	11	0	0	0	0	0
3.1	2010	11	0	0	0	0	0
4	2010	11	0	0	1	1	0
1	2010	12	0	0	0	0	0
2	2010	12	0	0	0	0	0
3.1	2010	12	0	0	0	0	0
4	2010	12	0	0	1	1	0
1	2011	1	0	0	0	0	0
2	2011	1	0	0	0	0	0
3.1	2011	1	0	0	0	0	0
4	2011	1	0	0	1	1	0
1	2011	2	0	0	0	0	0
2	2011	2	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2011	2	0	0	0	0	0
4	2011	2	0	0	1	1	0
1	2011	3	0	0	0	0	0
2	2011	3	0	0	0	0	0
3.1	2011	3	0	0	0	0	0
4	2011	3	0	0	1	1	0
1	2011	4	0	0	0	0	0
2	2011	4	0	0	0	0	0
3.1	2011	4	0	0	0	0	0
4	2011	4	0	0	1	1	0
1	2011	5	0	0	0	0	0
2	2011	5	0	0	0	0	0
3.1	2011	5	0	0	0	0	0
4	2011	5	0	0	1	1	0
1	2011	6	0	0	0	0	0
2	2011	6	0	0	0	0	0
3.1	2011	6	0	0	0	0	0
4	2011	6	0	0	1	1	0
1	2011	7	0	0	0	0	0
2	2011	7	0	0	0	0	0
3.1	2011	7	0	0	0	0	0
4	2011	7	0	0	1	1	0
1	2011	8	0	0	0	0	0
2	2011	8	0	0	0	0	0
3.1	2011	8	0	0	0	0	0
4	2011	8	0	0	1	1	0
1	2011	9	0	0	0	0	0
2	2011	9	0	0	0	0	0
3.1	2011	9	0	0	0	0	0
4	2011	9	0	0	1	1	0
1	2011	10	0	0	0	0	0
2	2011	10	0	0	0	0	0
3.1	2011	10	0	0	0	0	0
4	2011	10	0	0	1	1	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2011	11	0	0	0	0	0
2	2011	11	0	0	0	0	0
3.1	2011	11	0	0	0	0	0
4	2011	11	0	1	1	1	0
1	2011	12	0	0	0	0	0
2	2011	12	0	0	0	0	0
3.1	2011	12	0	0	0	0	0
4	2011	12	0	1	1	1	0
1	2012	1	0	0	0	0	0
2	2012	1	0	0	0	0	0
3.1	2012	1	0	0	0	0	0
4	2012	1	0	1	1	1	0
1	2012	2	0	0	0	0	0
2	2012	2	0	0	0	0	0
3.1	2012	2	0	0	0	0	0
4	2012	2	0	1	1	1	0
1	2012	3	0	0	0	0	0
2	2012	3	0	0	0	0	0
3.1	2012	3	0	0	0	0	0
4	2012	3	0	1	1	1	0
1	2012	4	0	0	0	0	0
2	2012	4	0	0	0	0	0
3.1	2012	4	0	0	0	0	0
4	2012	4	0	1	1	1	0
1	2012	5	0	0	0	0	0
2	2012	5	0	0	0	0	0
3.1	2012	5	0	0	0	0	0
4	2012	5	1	1	1	1	0
1	2012	6	0	0	0	0	0
2	2012	6	0	0	0	0	0
3.1	2012	6	0	0	0	0	0
4	2012	6	0	1	1	1	0
1	2012	7	0	0	0	0	0
2	2012	7	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2012	7	0	0	0	0	0
4	2012	7	0	0	1	1	0
1	2012	8	0	0	0	0	0
2	2012	8	0	0	0	0	0
3.1	2012	8	0	0	0	0	0
4	2012	8	0	0	1	1	0
1	2012	9	0	0	0	0	0
2	2012	9	0	0	0	0	0
3.1	2012	9	0	0	0	0	0
4	2012	9	0	0	1	1	0
1	2012	10	0	0	0	0	0
2	2012	10	0	0	0	0	0
3.1	2012	10	0	0	0	0	0
4	2012	10	0	0	1	1	0
1	2012	11	0	0	0	0	0
2	2012	11	0	0	0	0	0
3.1	2012	11	0	0	0	0	0
4	2012	11	0	0	1	1	0
1	2012	12	0	0	0	0	0
2	2012	12	0	0	0	0	0
3.1	2012	12	0	0	0	0	0
4	2012	12	0	0	1	1	0
1	2013	1	0	0	0	0	0
2	2013	1	0	0	0	0	0
3.1	2013	1	0	0	0	0	0
4	2013	1	0	0	1	1	0
1	2013	2	0	0	0	0	0
2	2013	2	0	0	0	0	0
3.1	2013	2	0	0	0	0	0
4	2013	2	0	0	1	1	0
1	2013	3	0	0	0	0	0
2	2013	3	0	0	0	0	0
3.1	2013	3	0	0	0	0	0
4	2013	3	0	0	1	1	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2013	4	0	0	0	0	0
2	2013	4	0	0	0	0	0
3.1	2013	4	0	0	0	0	0
4	2013	4	0	0	1	1	1
1	2013	5	0	0	0	0	0
2	2013	5	0	0	0	0	0
3.1	2013	5	0	0	0	0	0
4	2013	5	0	0	1	1	1
1	2013	6	0	0	0	0	0
2	2013	6	0	0	0	0	0
3.1	2013	6	0	0	0	0	0
4	2013	6	0	0	1	1	1
1	2013	7	0	0	0	0	0
2	2013	7	0	0	0	0	0
3.1	2013	7	0	0	0	0	0
4	2013	7	0	0	1	1	1
1	2013	8	0	0	0	0	0
2	2013	8	0	0	0	0	0
3.1	2013	8	0	0	0	0	0
4	2013	8	0	0	1	1	1
1	2013	9	0	0	0	0	0
2	2013	9	0	0	0	0	0
3.1	2013	9	0	0	0	0	0
4	2013	9	0	0	1	1	1
1	2013	10	0	0	0	0	0
2	2013	10	0	0	0	0	0
3.1	2013	10	0	0	0	0	0
4	2013	10	0	0	1	1	1
1	2013	11	0	0	0	0	0
2	2013	11	0	0	0	0	0
3.1	2013	11	0	0	0	0	0
4	2013	11	0	0	1	1	1
1	2013	12	0	0	0	0	0
2	2013	12	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2013	12	0	0	0	0	0
4	2013	12	0	0	1	1	1
1	2014	1	0	0	0	0	0
2	2014	1	0	0	0	0	0
3.1	2014	1	0	0	0	0	0
4	2014	1	0	0	1	1	1
1	2014	2	0	0	0	0	0
2	2014	2	0	0	0	0	0
3.1	2014	2	0	0	0	0	0
4	2014	2	0	0	1	1	1
1	2014	3	0	0	0	0	0
2	2014	3	0	0	0	0	0
3.1	2014	3	0	0	0	0	0
4	2014	3	0	0	1	1	1
1	2014	4	0	0	0	0	0
2	2014	4	0	0	0	0	0
3.1	2014	4	0	0	0	0	0
4	2014	4	0	0	1	1	1
1	2014	5	0	0	0	0	0
2	2014	5	0	0	0	0	0
3.1	2014	5	0	0	0	0	0
4	2014	5	0	0	1	1	1
1	2014	6	0	0	0	0	0
2	2014	6	0	0	0	0	0
3.1	2014	6	0	0	0	0	0
4	2014	6	0	0	1	1	1
1	2014	7	0	0	0	0	0
2	2014	7	0	0	0	0	0
3.1	2014	7	0	0	0	0	0
4	2014	7	0	0	1	1	1
1	2014	8	0	0	0	0	0
2	2014	8	0	0	0	0	0
3.1	2014	8	0	0	0	0	0
4	2014	8	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2014	9	0	0	0	0	0
2	2014	9	0	0	0	0	0
3.1	2014	9	0	0	0	0	0
4	2014	9	0	0	1	1	0
1	2014	10	0	0	0	0	0
2	2014	10	0	0	0	0	0
3.1	2014	10	0	0	0	0	0
4	2014	10	0	0	1	1	0
1	2014	11	0	0	0	0	0
2	2014	11	0	0	0	0	0
3.1	2014	11	0	0	0	0	0
4	2014	11	0	0	1	1	0
1	2014	12	0	0	0	0	0
2	2014	12	0	0	0	0	0
3.1	2014	12	0	0	0	0	0
4	2014	12	0	0	1	1	0
1	2015	1	0	0	0	0	0
2	2015	1	0	0	0	0	0
3.1	2015	1	0	0	0	0	0
4	2015	1	0	0	1	1	0
1	2015	2	0	0	0	0	0
2	2015	2	0	0	0	0	0
3.1	2015	2	0	0	0	0	0
4	2015	2	0	0	1	1	0
1	2015	3	0	0	0	0	0
2	2015	3	0	0	0	0	0
3.1	2015	3	0	0	0	0	0
4	2015	3	0	0	1	1	0
1	2015	4	0	0	0	0	0
2	2015	4	0	0	0	0	0
3.1	2015	4	0	0	0	0	0
4	2015	4	0	0	1	1	0
1	2015	5	0	0	0	0	0
2	2015	5	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2015	5	0	0	0	0	0
4	2015	5	0	0	1	1	1
1	2015	6	0	0	0	0	0
2	2015	6	0	0	0	0	0
3.1	2015	6	0	0	0	0	0
4	2015	6	0	0	1	1	1
1	2015	7	0	0	0	0	0
2	2015	7	0	0	0	0	0
3.1	2015	7	0	0	0	0	0
4	2015	7	0	0	1	1	1
1	2015	8	0	0	0	0	0
2	2015	8	0	0	0	0	0
3.1	2015	8	0	0	0	0	0
4	2015	8	0	0	1	1	1
1	2015	9	0	0	0	0	0
2	2015	9	0	0	0	0	0
3.1	2015	9	0	0	0	0	0
4	2015	9	0	0	1	1	1
1	2015	10	0	0	0	0	0
2	2015	10	0	0	0	0	0
3.1	2015	10	0	0	0	0	0
4	2015	10	0	0	1	1	1
1	2015	11	0	0	0	0	0
2	2015	11	0	0	0	0	0
3.1	2015	11	0	0	0	0	0
4	2015	11	0	0	1	1	1
1	2015	12	0	0	0	0	0
2	2015	12	0	0	0	0	0
3.1	2015	12	0	0	0	0	0
4	2015	12	0	0	1	1	1
1	2016	1	0	0	0	0	0
2	2016	1	0	0	0	0	0
3.1	2016	1	0	0	0	0	0
4	2016	1	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2016	2	0	0	0	0	0
2	2016	2	0	0	0	0	0
3.1	2016	2	0	0	0	0	0
4	2016	2	0	0	1	1	1
1	2016	3	0	0	0	0	0
2	2016	3	0	0	0	0	0
3.1	2016	3	0	0	0	0	0
4	2016	3	0	0	1	1	1
1	2016	4	0	0	0	0	0
2	2016	4	0	0	0	0	0
3.1	2016	4	0	0	0	0	0
4	2016	4	0	0	1	1	1
1	2016	5	0	0	0	0	0
2	2016	5	0	0	0	0	0
3.1	2016	5	0	0	0	0	0
4	2016	5	0	0	1	1	1
1	2016	6	0	0	0	0	0
2	2016	6	0	0	0	0	0
3.1	2016	6	0	0	0	0	0
4	2016	6	0	0	1	1	1
1	2016	7	0	0	0	0	0
2	2016	7	0	0	0	0	0
3.1	2016	7	0	0	0	0	0
4	2016	7	0	0	1	1	1
1	2016	8	0	0	0	0	0
2	2016	8	0	0	0	0	0
3.1	2016	8	0	0	0	0	0
4	2016	8	0	0	1	1	1
1	2016	9	0	0	0	0	0
2	2016	9	0	0	0	0	0
3.1	2016	9	0	0	0	0	0
4	2016	9	0	0	1	1	1
1	2016	10	0	0	0	0	0
2	2016	10	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2016	10	0	0	0	0	0
4	2016	10	0	0	1	1	1
1	2016	11	0	0	0	0	0
2	2016	11	0	0	0	0	0
3.1	2016	11	0	0	0	0	0
4	2016	11	0	0	1	1	1
1	2016	12	0	0	0	0	0
2	2016	12	0	0	0	0	0
3.1	2016	12	0	0	0	0	0
4	2016	12	0	0	1	1	1
1	2017	1	0	0	0	0	0
2	2017	1	0	0	0	0	0
3.1	2017	1	0	0	0	0	0
4	2017	1	0	0	1	1	1
1	2017	2	0	0	0	0	0
2	2017	2	0	0	0	0	0
3.1	2017	2	0	0	0	0	0
4	2017	2	0	0	1	1	1
1	2017	3	0	0	0	0	0
2	2017	3	0	0	0	0	0
3.1	2017	3	0	0	0	0	0
4	2017	3	0	0	1	1	1
1	2017	4	0	0	0	0	0
2	2017	4	0	0	0	0	0
3.1	2017	4	0	0	0	0	0
4	2017	4	0	0	1	1	1
1	2017	5	0	0	0	0	0
2	2017	5	0	0	0	0	0
3.1	2017	5	0	0	0	0	0
4	2017	5	0	0	1	1	1
1	2017	6	0	0	0	0	0
2	2017	6	0	0	0	0	0
3.1	2017	6	0	0	0	0	0
4	2017	6	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2017	7	0	0	0	0	0
2	2017	7	0	0	0	0	0
3.1	2017	7	0	0	0	0	0
4	2017	7	0	0	1	1	1
1	2017	8	0	0	0	0	0
2	2017	8	0	0	0	0	0
3.1	2017	8	0	0	0	0	0
4	2017	8	0	0	1	1	1
1	2017	9	0	0	0	0	0
2	2017	9	0	0	0	0	0
3.1	2017	9	0	0	0	0	0
4	2017	9	0	0	1	1	1
1	2017	10	0	0	0	0	0
2	2017	10	0	0	0	0	0
3.1	2017	10	0	0	0	0	0
4	2017	10	0	0	1	1	1
1	2017	11	0	0	0	0	0
2	2017	11	0	0	0	0	0
3.1	2017	11	0	0	0	0	0
4	2017	11	0	0	1	1	1
1	2017	12	0	0	0	0	0
2	2017	12	0	0	0	0	0
3.1	2017	12	0	0	0	0	0
4	2017	12	0	0	1	1	1
1	2018	1	0	0	0	0	0
2	2018	1	0	0	0	0	0
3.1	2018	1	0	0	0	0	0
4	2018	1	0	0	1	1	1
1	2018	2	0	0	0	0	0
2	2018	2	0	0	0	0	0
3.1	2018	2	0	0	0	0	0
4	2018	2	0	0	1	1	1
1	2018	3	0	0	0	0	0
2	2018	3	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2018	3	0	0	0	0	0
4	2018	3	0	0	1	1	1
1	2018	4	0	0	0	0	0
2	2018	4	0	0	0	0	0
3.1	2018	4	0	0	0	0	0
4	2018	4	0	0	1	1	1
1	2018	5	0	0	0	0	0
2	2018	5	0	0	0	0	0
3.1	2018	5	0	0	0	0	0
4	2018	5	0	0	1	1	1
1	2018	6	0	0	0	0	0
2	2018	6	0	0	0	0	0
3.1	2018	6	0	0	0	0	0
4	2018	6	0	0	1	1	1
1	2018	7	0	0	0	0	0
2	2018	7	0	0	0	0	0
3.1	2018	7	0	0	0	0	0
4	2018	7	0	0	1	1	1
1	2018	8	0	0	0	0	0
2	2018	8	0	0	0	0	0
3.1	2018	8	0	0	0	0	0
4	2018	8	0	0	1	1	1
1	2018	9	0	0	0	0	0
2	2018	9	0	0	0	0	0
3.1	2018	9	0	0	0	0	0
4	2018	9	0	0	1	1	1
1	2018	10	0	0	0	0	0
2	2018	10	0	0	0	0	0
3.1	2018	10	0	0	0	0	0
4	2018	10	0	0	1	1	1
1	2018	11	0	0	0	0	0
2	2018	11	0	0	0	0	0
3.1	2018	11	0	0	0	0	0
4	2018	11	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2018	12	0	0	0	0	0
2	2018	12	0	0	0	0	0
3.1	2018	12	0	0	0	0	0
4	2018	12	0	1	1	1	0
1	2019	1	0	0	0	0	0
2	2019	1	0	0	0	0	0
3.1	2019	1	0	0	0	0	0
4	2019	1	0	1	1	1	0
1	2019	2	0	0	0	0	0
2	2019	2	0	0	0	0	0
3.1	2019	2	0	0	0	0	0
4	2019	2	0	1	1	1	0
1	2019	3	0	0	0	0	0
2	2019	3	0	0	0	0	0
3.1	2019	3	0	0	0	0	0
4	2019	3	0	1	1	1	0
1	2019	4	0	0	0	0	0
2	2019	4	0	0	0	0	0
3.1	2019	4	0	0	0	0	0
4	2019	4	0	1	1	1	0
1	2019	5	0	0	0	0	0
2	2019	5	0	0	0	0	0
3.1	2019	5	0	0	0	0	0
4	2019	5	0	1	1	1	0
1	2019	6	0	0	0	0	0
2	2019	6	0	0	0	0	0
3.1	2019	6	0	0	0	0	0
4	2019	6	0	1	1	1	0
1	2019	7	0	0	0	0	0
2	2019	7	0	0	0	0	0
3.1	2019	7	0	0	0	0	0
4	2019	7	0	1	1	1	0
1	2019	8	0	0	0	0	0
2	2019	8	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2019	8	0	0	0	0	0
4	2019	8	0	0	1	1	1
1	2019	9	0	0	0	0	0
2	2019	9	0	0	0	0	0
3.1	2019	9	0	0	0	0	0
4	2019	9	0	0	1	1	1
1	2019	10	0	0	0	0	0
2	2019	10	0	0	0	0	0
3.1	2019	10	0	0	0	0	0
4	2019	10	0	0	1	1	1
1	2019	11	0	0	0	0	0
2	2019	11	0	0	0	0	0
3.1	2019	11	0	0	0	0	0
4	2019	11	0	0	1	1	1
1	2019	12	0	0	0	0	0
2	2019	12	0	0	0	0	0
3.1	2019	12	0	0	0	0	0
4	2019	12	0	0	1	1	1
1	2020	1	0	0	0	0	0
2	2020	1	0	0	0	0	0
3.1	2020	1	0	0	0	0	0
4	2020	1	0	0	1	1	1
1	2020	2	0	0	0	0	0
2	2020	2	0	0	0	0	0
3.1	2020	2	0	0	0	0	0
4	2020	2	0	0	1	1	1
1	2020	3	0	0	0	0	0
2	2020	3	0	0	0	0	0
3.1	2020	3	0	0	0	0	0
4	2020	3	0	0	1	1	1
1	2020	4	0	0	0	0	0
2	2020	4	0	0	0	0	0
3.1	2020	4	0	0	0	0	0
4	2020	4	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2020	5	0	0	0	0	0
2	2020	5	0	0	0	0	0
3.1	2020	5	0	0	0	0	0
4	2020	5	0	0	1	1	1
1	2020	6	0	0	0	0	0
2	2020	6	0	0	0	0	0
3.1	2020	6	0	0	0	0	0
4	2020	6	0	0	1	1	1
1	2020	7	0	0	0	0	0
2	2020	7	0	0	0	0	0
3.1	2020	7	0	0	0	0	0
4	2020	7	0	0	1	1	1
1	2020	8	0	0	0	0	0
2	2020	8	0	0	0	0	0
3.1	2020	8	0	0	0	0	0
4	2020	8	0	0	1	1	1
1	2020	9	0	0	0	0	0
2	2020	9	0	0	0	0	0
3.1	2020	9	0	0	0	0	0
4	2020	9	0	0	1	1	1
1	2020	10	0	0	0	0	0
2	2020	10	0	0	0	0	0
3.1	2020	10	0	0	0	0	0
4	2020	10	0	0	1	1	1
1	2020	11	0	0	0	0	0
2	2020	11	0	0	0	0	0
3.1	2020	11	0	0	0	0	0
4	2020	11	0	0	1	1	1
1	2020	12	0	0	0	0	0
2	2020	12	0	0	0	0	0
3.1	2020	12	0	0	0	0	0
4	2020	12	0	0	1	1	1
1	2021	1	0	0	0	0	0
2	2021	1	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2021	1	0	0	0	0	0
4	2021	1	0	0	1	1	1
1	2021	2	0	0	0	0	0
2	2021	2	0	0	0	0	0
3.1	2021	2	0	0	0	0	0
4	2021	2	0	0	1	1	1
1	2021	3	0	0	0	0	0
2	2021	3	0	0	0	0	0
3.1	2021	3	0	0	0	0	0
4	2021	3	0	0	1	1	1
1	2021	4	0	0	0	0	0
2	2021	4	0	0	0	0	0
3.1	2021	4	0	0	0	0	0
4	2021	4	0	0	1	1	1
1	2021	5	0	0	0	0	0
2	2021	5	0	0	0	0	0
3.1	2021	5	0	0	0	0	0
4	2021	5	0	0	1	1	1
1	2021	6	0	0	0	0	0
2	2021	6	0	0	0	0	0
3.1	2021	6	0	0	0	0	0
4	2021	6	0	0	1	1	1
1	2021	7	0	0	0	0	0
2	2021	7	0	0	0	0	0
3.1	2021	7	0	0	0	0	0
4	2021	7	0	0	1	1	1
1	2021	8	0	0	0	0	0
2	2021	8	0	0	0	0	0
3.1	2021	8	0	0	0	0	0
4	2021	8	0	0	1	1	1
1	2021	9	0	0	0	0	0
2	2021	9	0	0	0	0	0
3.1	2021	9	0	0	0	0	0
4	2021	9	0	0	1	1	1

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
1	2021	10	0	0	0	0	0
2	2021	10	0	0	0	0	0
3.1	2021	10	0	0	0	0	0
4	2021	10	0	0	1	1	0
1	2021	11	0	0	0	0	0
2	2021	11	0	0	0	0	0
3.1	2021	11	0	0	0	0	0
4	2021	11	0	0	1	1	0
1	2021	12	0	0	0	0	0
2	2021	12	0	0	0	0	0
3.1	2021	12	0	0	0	0	0
4	2021	12	0	0	1	1	0
1	2022	1	0	0	0	0	0
2	2022	1	0	0	0	0	0
3.1	2022	1	0	0	0	0	0
4	2022	1	0	0	1	1	0
1	2022	2	0	0	0	0	0
2	2022	2	0	0	0	0	0
3.1	2022	2	0	0	0	0	0
4	2022	2	0	0	1	1	0
1	2022	3	0	0	0	0	0
2	2022	3	0	0	0	0	0
3.1	2022	3	0	0	0	0	0
4	2022	3	0	0	1	1	0
1	2022	4	0	0	0	0	0
2	2022	4	0	0	0	0	0
3.1	2022	4	0	0	0	0	0
4	2022	4	0	0	1	1	0
1	2022	5	0	0	0	0	0
2	2022	5	0	0	0	0	0
3.1	2022	5	0	0	0	0	0
4	2022	5	0	0	1	1	0
1	2022	6	0	0	0	0	0
2	2022	6	0	0	0	0	0

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Input Data

revcls	YEAR	MONTH	or4	or5	or6	or7	or8
3.1	2022	6	0	0	0	0	0
4	2022	6	0	0	1	1	1
1	2022	7	0	0	0	0	0
2	2022	7	0	0	0	0	0
3.1	2022	7	0	0	0	0	0
4	2022	7	0	0	1	1	1
1	2022	8	0	0	0	0	0
2	2022	8	0	0	0	0	0
3.1	2022	8	0	0	0	0	0
4	2022	8	0	0	1	1	1
1	2022	9	0	0	0	0	0
2	2022	9	0	0	0	0	0
3.1	2022	9	0	0	0	0	0
4	2022	9	0	0	1	1	1
1	2022	10	0	0	0	0	0
2	2022	10	0	0	0	0	0
3.1	2022	10	0	0	0	0	0
4	2022	10	0	0	1	1	1
1	2022	11	0	0	0	0	0
2	2022	11	0	0	0	0	0
3.1	2022	11	0	0	0	0	0
4	2022	11	0	0	1	1	1
1	2022	12	0	0	0	0	0
2	2022	12	0	0	0	0	0
3.1	2022	12	0	0	0	0	0
4	2022	12	0	0	1	1	1

Indiana Michigan Power Company - Michigan

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The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
0	MU	-7.40725	2.31851	-3.19	0.0014	0	USAGE
0	MA1,1	-0.33311	0.10335	-3.22	0.0013	9	USAGE
0	AR1,1	0.35278	0.09734	3.62	0.0003	1	USAGE
0	AR2,1	-0.26082	0.09420	-2.77	0.0056	4	USAGE
0	AR3,1	-0.38678	0.09726	-3.98	<.0001	12	USAGE
0	NUM1	1.33716	0.04892	27.33	<.0001	0	BCDD65
0	NUM2	0.47081	0.01756	26.81	<.0001	0	BHDD55
0	NUM3	30.61851	3.50449	8.74	<.0001	0	MET_DAYS

Constant Estimate	-8.38248
Variance Estimate	422.5877
Std Error Estimate	20.55694
AIC	979.5461
SBC	1001.077
Number of Residuals	109

Correlations of Parameter Estimates

Indiana Michigan Power Company - Michigan

MET_DAYS	Variable	USAGE	USAGE	USAGE	USAGE	USAGE	USAGE	USAGE	BCDD65	BHDD55
NUM3	Parameter	MU	MA1,1	AR1,1	AR2,1	AR3,1	NUM1	NUM2		
0.016	USAGE	MU	0.002	0.026	0.010	-0.011	-0.071	0.001		
-0.055	USAGE	MA1,1	1.000	-0.079	-0.055	-0.105	-0.063	0.012		
-0.045	USAGE	AR1,1	-0.079	1.000	0.096	-0.180	-0.221	-0.079		
-0.107	USAGE	AR2,1	-0.055	0.096	1.000	-0.057	-0.004	-0.105		
0.035	USAGE	AR3,1	-0.105	-0.180	-0.057	1.000	0.073	-0.069		
-0.186	BCDD65	NUM1	-0.063	-0.221	-0.004	0.073	1.000	0.150		
-0.024	BHDD55	NUM2	0.012	-0.079	-0.105	-0.069	0.150	1.000		
1.000	MET_DAYS	NUM3	-0.055	-0.045	-0.107	0.035	-0.186	-0.024		

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The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations
6	4.31	2	0.1160	-0.059 -0.134 -0.028 -0.099
12	10.88	8	0.2085	-0.053 -0.075 -0.043 0.147 0.146

Indiana Michigan Power Company - Michigan

0.104162	13	-2.682537	-0.00635	.	.	.
0.104165	14	-20.255953	-0.04793	.	*	.
0.104367	15	8.216334	0.01944	.	.	.
0.104401	16	-10.669515	-0.02525	.	*	.
0.104457	17	27.825459	0.06585	.	.	*
0.104837	18	-35.577754	-0.08419	.	**	.
0.105455	19	-60.204020	-0.14247	.	***	.
0.107206	20	-33.020438	-0.07814	.	**	.
0.107727	21	9.206519	0.02179	.	.	.
0.107768	22	49.881279	0.11804	.	**	.

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The ARIMA Procedure

Autocorrelation Plot of Residuals

Std Error	Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
0.108948	23	-21.225259	-0.05023	.	*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.109160	24	-69.182205	-0.16371	.	***	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

"," marks two standard errors

Indiana Michigan Power Company - Michigan

2	-0.06195	.	*	.
3	-0.12844	.	***	.
4	-0.01951	.	.	.
5	-0.11506	.	**	.
6	-0.06794	.	*	.
7	-0.07169	.	*	.
8	-0.11470	.	**	.
9	-0.07449	.	*	.
10	0.10679	.	.	**
11	0.09279	.	.	**
12	-0.05371	.	*	.
13	0.02064	.	.	.
14	-0.04081	.	*	.
15	0.03140	.	.	*
16	-0.00344	.	.	.
17	0.07627	.	.	**
18	-0.06191	.	*	.
19	-0.12190	.	**	.
20	-0.08007	.	**	.
21	-0.05372	.	*	.
22	0.08175	.	.	**
23	-0.09668	.	**	.
24	-0.20721	.	****	.

Model for variable USAGE

Estimated Intercept -7.40725
Period(s) of Differencing 12
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The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.35278 B**(1)
Factor 2: 1 + 0.26082 B**(4)

Factor 3: $1 + 0.38678 B^{**}(12)$

Moving Average Factors

Factor 1: $1 + 0.33311 B^{**}(9)$

Input Number 1

Input Variable BCDD65
 Period(s) of Differencing 12
 Overall Regression Factor 1.337158

Input Number 2

Input Variable BHDD55
 Period(s) of Differencing 12
 Overall Regression Factor 0.470814

Input Number 3

Input Variable MET_DAYS
 Period(s) of Differencing 12
 Overall Regression Factor 30.61851

Outlier Detection Summary

Maximum number searched	3
Number found	3
Significance used	0.05
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The ARIMA Procedure

Indiana Michigan Power Company - Michigan

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
93	SEP2016	Additive	36.38531	6.61	0.0101
14	FEB2010	Additive	37.15523	5.20	0.0226
40	APR2012	Additive	-33.01670	5.43	0.0198

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
122	1007.6898	20.5569	967.3990 1047.9807
123	940.0870	21.7986	897.3626 982.8115
124	815.4939	21.9482	772.4762 858.5116
125	671.3494	21.9668	628.2953 714.4034
126	780.7317	22.5383	736.5575 824.9059
127	1006.7071	22.6084	962.3955 1051.0188
128	1001.2535	22.6171	956.9248 1045.5822
129	915.2909	22.6182	870.9600 959.6217
130	685.2260	22.6567	640.8197 729.6323
131	686.8719	23.8078	640.2094 733.5343
132	939.6921	23.9472	892.7565 986.6277
133	1114.4757	23.9645	1067.5062 1161.4452
134	997.7279	27.0575	944.6961 1050.7596
135	925.6232	27.1866	872.3385 978.9078
136	800.5897	27.2026	747.2736 853.9057
137	663.1163	27.2046	609.7964 716.4363
138	779.5283	27.3780	725.8685 833.1882
139	1007.4025	27.3850	953.7289 1061.0761
140	993.7465	27.3859	940.0712 1047.4218
141	908.4398	27.3860	854.7643 962.1153
142	675.2022	27.3978	621.5034 728.9009
143	675.2339	27.7429	620.8589 729.6089
144	929.4269	27.7855	874.9684 983.8855

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145 1108.2698 27.7908 1053.8008 1162.7388
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The ARIMA Procedure

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
146	991.3124	31.8971	928.7952 1053.8295
147	920.9497	32.2073	857.8245 984.0748
148	796.0895	32.2457	732.8892 859.2899
149	656.0317	32.2505	592.8220 719.2415
150	769.7206	32.4780	706.0649 833.3763
151	996.8602	32.4958	933.1696 1060.5508
152	986.3759	32.4980	922.6809 1050.0708
153	900.8166	32.4983	837.1210 964.5121
154	668.8072	32.5138	605.0812 732.5332
155	669.4633	32.9767	604.8302 734.0964
156	923.1256	33.0338	858.3804 987.8707
157	1100.3981	33.0409	1035.6391 1165.1572

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The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
MU	-14.86008	9.49744	-1.56	0.1177	0	USAGE
AR1,1	0.43422	0.09913	4.38	<.0001	1	USAGE

Shift

0

0

Indiana Michigan Power Company - Michigan

0	AR1,2	0.22756	0.09904	2.30	0.0216	2	USAGE
0	AR2,1	-0.55946	0.09382	-5.96	<.0001	12	USAGE
0	AR3,1	-0.52393	0.09747	-5.38	<.0001	24	USAGE
0	NUM1	3.31916	0.21435	15.48	<.0001	0	BCDD65
0	NUM2	0.50727	0.07798	6.50	<.0001	0	BHDD55
0	NUM3	-270.21130	69.40474	-3.89	<.0001	0	com1
0	NUM4	-328.77181	68.52910	-4.80	<.0001	0	com2
0	NUM5	102.85501	16.68626	6.16	<.0001	0	MET_DAYS

Constant Estimate -11.9443
Variance Estimate 5517.864
Std Error Estimate 74.28233
AIC 1266.973
SBC 1293.886
Number of Residuals 109

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The ARIMA Procedure

Correlations of Parameter Estimates

Variable	USAGE	USAGE	USAGE	USAGE	BCDD65	BHDD55	com1
com2							
MET_DAYS							
Parameter	MU	AR1,1	AR2,1	AR3,1	NUM1	NUM2	NUM3
NUM4							
NUM5							

Indiana Michigan Power Company - Michigan

USAGE	MU	1.000	-0.021	-0.063	-0.048	-0.056	0.011	0.043	-0.063
-0.057	0.048								
USAGE	AR1,1	-0.021	1.000	-0.540	-0.081	-0.106	-0.184	-0.000	-0.003
-0.017	0.079								
USAGE	AR1,2	-0.063	-0.540	1.000	-0.058	0.027	0.093	0.005	0.023
0.025	-0.143								
USAGE	AR2,1	-0.048	-0.081	-0.058	1.000	0.436	-0.090	-0.032	0.143
0.071	-0.178								
USAGE	AR3,1	-0.056	-0.106	0.027	0.436	1.000	-0.279	-0.091	0.052
0.160	-0.032								
BCDD65	NUM1	0.011	-0.184	0.093	-0.090	-0.279	1.000	0.060	0.015
0.004	-0.037								
BHDD55	NUM2	0.043	-0.000	0.005	-0.032	-0.091	0.060	1.000	-0.205
-0.172	0.016								
com1	NUM3	-0.063	-0.003	0.023	0.143	0.052	0.015	-0.205	1.000
0.290	-0.160								
com2	NUM4	-0.057	-0.017	0.025	0.071	0.160	0.004	-0.172	0.290
1.000	0.041								
MET_DAYS	NUM5	0.048	0.079	-0.143	-0.178	-0.032	-0.037	0.016	-0.160
0.041	1.000								

Autocorrelation Check of Residuals

	To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----				
0.042	6	1.77	2	0.4136	0.004	0.022	0.053	-0.100	-0.015
-0.011	12	9.52	8	0.3006	-0.167	0.119	0.084	0.077	0.097
0.068	18	10.89	14	0.6950	-0.039	0.006	0.020	-0.015	-0.060
-0.073	24	17.62	20	0.6127	-0.078	0.138	0.025	-0.027	0.130

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2	0.02156	.	.	.
3	0.05322	*	.	.
4	-0.10133	**	.	.
5	-0.01622	.	.	.
6	0.04428	*	.	.
7	-0.15823	***	.	.
8	0.11611	.	**	.
9	0.08471	.	**	.
10	0.09563	.	**	.
11	0.05417	.	*	.

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The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
12	-0.01039	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
13	-0.01988	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14	-0.02064	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15	0.07243	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.	.	.	.
16	-0.00614	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17	-0.06830	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.	.	.	.
18	0.06883	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19	-0.11134	.	.	.	.	.	.	.	.	.	.	.	**	.	.	.	.	.	.	.	.	.	.
20	0.12959	.	.	.	.	.	.	.	.	.	.	.	.	**	.	.	.	.	.	.	.	.	.
21	-0.00541	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22	0.00299	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
23	0.12007	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24	-0.10798	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Model for variable USAGE

Estimated Intercept	-14.8601
Period(s) of Differencing	12

Autoregressive Factors

Factor 1: 1 - 0.43422 B**(1) - 0.22756 B**(2)
 Factor 2: 1 + 0.55946 B**(12)
 Factor 3: 1 + 0.52393 B**(24)

Input Number 1

Input Variable BCDD65
 Period(s) of Differencing 12
 Overall Regression Factor 3.319161
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Input Number 2

Input Variable BHDD55
 Period(s) of Differencing 12
 Overall Regression Factor 0.50727

Input Number 3

Input Variable com1
 Period(s) of Differencing 12
 Overall Regression Factor -270.211

Input Number 4

Input Variable com2
 Period(s) of Differencing 12
 Overall Regression Factor -328.772

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Input Number 5

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 102.855

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05
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The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
26	FEB2011	Additive	-191.91242	12.19	0.0005
43	JUL2012	Additive	150.10967	8.08	0.0045
67	JUL2014	Additive	-144.06772	10.41	0.0013

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
122	3581.5457	74.2823	3435.9550 3727.1364
123	3442.9431	80.9831	3284.2191 3601.6670
124	3389.3726	86.6813	3219.4803 3559.2649
125	3325.4851	89.1330	3150.7876 3500.1827
126	3766.1564	90.5663	3588.6497 3943.6632

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127	4319.6874	91.3181	4140.7073	4498.6676
128	4411.0149	91.7344	4231.2188	4590.8109
129	4264.3555	91.9609	4084.1153	4444.5956
130	3628.4428	92.0855	3447.9586	3808.9270
131	3319.0543	92.1538	3138.4362	3499.6724
132	3706.4905	92.1913	3525.7989	3887.1821
133	3903.4835	92.2119	3722.7515	4084.2155
134	3620.8624	98.3389	3428.1216	3813.6031
135	3468.4737	99.5190	3273.4201	3663.5274
136	3413.3860	100.5569	3216.2981	3610.4740
137	3326.0813	101.0270	3128.0720	3524.0906
138	3792.4266	101.3055	3593.8715	3990.9817
139	4388.3607	101.4533	4189.5159	4587.2055
140	4454.9228	101.5355	4255.9169	4653.9287
141	4310.7578	101.5804	4111.6639	4509.8517
142	3672.4053	101.6051	3473.2630	3871.5477
143	3357.7889	101.6187	3158.6199	3556.9578
144	3722.8588	101.6261	3523.6753	3922.0423
145	3941.9821	101.6302	3742.7906	4141.1737

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Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits
146	3639.5947	103.1655	3437.3940 3841.7954
147	3479.7106	103.4681	3276.9168 3682.5043
148	3405.2963	103.7373	3201.9749 3608.6176
149	3325.2371	103.8598	3121.6757 3528.7985
150	3793.9628	103.9325	3590.2587 3997.6668
151	4371.3549	103.9712	4167.5750 4575.1348
152	4460.1207	103.9928	4256.2986 4663.9428
153	4310.6865	104.0045	4106.8414 4514.5317
154	3632.0743	104.0110	3428.2164 3835.9321
155	3307.6799	104.0146	3103.8151 3511.5447

Indiana Michigan Power Company - Michigan

156 3701.3117 104.0165 3497.4430 3905.1803
157 3904.4802 104.0176 3700.6094 4108.3509
Industrial

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The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
0	MU	-625536.7	92864.2	-6.74	<.0001	0	KWH
0	MA1,1	0.84046	0.12970	6.48	<.0001	12	KWH
0	AR1,1	0.26656	0.09551	2.79	0.0053	2	KWH
0	AR2,1	0.26390	0.09570	2.76	0.0058	8	KWH
0	NUM1	-2417737.7	594629.0	-4.07	<.0001	0	ind1
0	NUM2	8755496.1	808411.5	10.83	<.0001	0	ind2
0	NUM3	8683603.1	853070.5	10.18	<.0001	0	ind3
0	NUM4	2793504.3	609605.6	4.58	<.0001	0	ind4
0	NUM5	-5586102.5	1156372.7	-4.83	<.0001	0	ind5
0	NUM6	5073020.1	1254846.5	4.04	<.0001	0	ind6
0	NUM7	5131485.3	1254456.6	4.09	<.0001	0	ind7
0	NUM8	899745.9	299405.1	3.01	0.0027	0	MET_DAYS

Indiana Michigan Power Company - Michigan

Constant Estimate -337715
Variance Estimate 1.754E12
Std Error Estimate 1324256
AIC 3408.584
SBC 3440.88
Number of Residuals 109

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Industrial

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The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter	MU	KWH MA1,1	KWH AR1,1	KWH AR2,1	ind1 NUM1	ind2 NUM2
KWH	1.000	0.100	-0.095	-0.028	-0.514	0.004
KWH MA1,1	0.100	1.000	-0.064	0.107	-0.040	0.068
KWH AR1,1	-0.095	-0.064	1.000	-0.058	0.127	-0.005
KWH AR2,1	-0.028	0.107	-0.058	1.000	0.024	-0.001
ind1	-0.514	-0.040	0.127	0.024	1.000	-0.004
ind2	0.004	0.068	-0.005	-0.001	-0.004	1.000
ind3	-0.002	-0.120	0.137	0.047	-0.031	-0.096
ind4	-0.222	-0.010	0.014	0.015	-0.298	0.001
ind5	0.066	-0.089	-0.138	-0.027	-0.073	-0.025
ind6	-0.039	-0.052	0.117	-0.172	-0.010	-0.017
ind7	-0.085	-0.011	0.048	0.020	0.275	-0.006
MET_DAYS	0.031	-0.012	-0.000	0.045	-0.035	0.025

Correlations of Parameter Estimates

Variable Parameter	ind3 NUM3	ind4 NUM4	ind5 NUM5	ind6 NUM6	ind7 NUM7	MET_DAYS NUM8
KWH	-0.002	-0.222	0.066	-0.039	-0.085	0.031
MU						

Indiana Michigan Power Company - Michigan

0	1.75365E12	1.00000	*****
0.095783	-2.4286E10	-0.1385	.
0.095801	-3.5563E10	-0.2028	.
0.095840	8.58565E10	0.04896	*
0.096070	1.13656E11	0.06481	*
0.096470	8.97694E10	0.05119	*
0.096719	7.01723E10	0.04001	*
0.096870	-2.1997E11	-0.12544	***
0.098349	800155542	0.00046	.
0.098349	7.28917E10	0.04157	*
0.098510	-6.4645E10	-0.3686	*
0.098637	-1.1468E11	-0.06540	*
0.099034	-2.3406E10	-0.1335	.
0.099050	6.11753E10	0.03488	*
0.099163	5.62201E10	0.03206	*
0.099258	9.24607E10	0.05272	*
0.099515	6.61706E10	0.03773	*
0.099646	-4.5687E10	-0.2605	*
0.099708	1.49255E11	0.08511	**

Indiana Michigan Power Company - Michigan

14	0.02610	.	*	.
15	0.06577	.	*	.
16	0.05786	.	*	.
17	-0.03436	.	*	.
18	0.05785	.	*	.
19	0.05858	.	*	.
20	0.07305	.	*	.
21	-0.02203	.	.	.
22	-0.12678	.	***	.
23	-0.01701	.	.	.
24	-0.00100	.	.	.

Model for variable KWH

Estimated Intercept -625537
Period(s) of Differencing 12
Industrial

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The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.26656 B**(2)
Factor 2: 1 - 0.2639 B**(8)

Moving Average Factors

Factor 1: 1 - 0.84046 B**(12)

Input Number 1

Input Variable ind1
Period(s) of Differencing 12
Overall Regression Factor -2417738

Input Number 2
Input Variable ind2
Period(s) of Differencing 12
Overall Regression Factor 8755496

Input Number 3
Input Variable ind3
Period(s) of Differencing 12
Overall Regression Factor 8683603

Input Number 4
Input Variable ind4
Period(s) of Differencing 12
Overall Regression Factor 2793504
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Input Number 5
Input Variable ind5
Period(s) of Differencing 12
Overall Regression Factor -5586103

Input Number 6
Input Variable ind6
Period(s) of Differencing 12
Overall Regression Factor 5073020

Indiana Michigan Power Company - Michigan

Input Number 7

Input Variable ind7
Period(s) of Differencing 12
Overall Regression Factor 5131485

Input Number 8

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 899745.9

Outlier Detection Summary

Maximum number searched 3
Number found 3
Significance used 0.05
Industrial

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The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
86	FEB2016	Additive	-3667042.0	13.43	0.0002
105	SEP2017	Additive	-2890671.4	8.21	0.0042
104	AUG2017	Additive	-2870829.8	8.53	0.0035

Forecasts for variable KWH

Indiana Michigan Power Company - Michigan

Obs	Forecast	Std Error	95% Confidence Limits
122	35466627.0	1324256	32871132.9
123	34816408.0	1324256	32220913.9
124	35010591.4	1370497	32324466.5
125	34900691.5	1370497	32214566.7
126	37092726.3	1373724	34400277.6
127	38465407.1	1373724	35772958.4
128	39553472.9	1373953	36860575.5
129	38828883.0	1373953	36135985.5
130	37674112.0	1419364	34892208.7
131	35203289.0	1419364	32421385.7
132	36224871.4	1422536	33436751.8
133	34205969.5	1422536	31417849.9
134	34522207.9	1442075	31695792.8
135	34143983.0	1442075	31317568.0
136	34385353.2	1443453	31556236.8
137	34195797.3	1443453	31366680.9
138	36585293.2	1447566	33748116.5
139	38016162.1	1447566	35178985.4
140	38691940.2	1447857	35854191.6
141	38319587.1	1447857	35481838.6
142	36963130.6	1449249	34122653.9
143	34565998.1	1449249	31725521.3
144	35599069.4	1449348	32758398.8
145	33559655.4	1449348	30718984.9

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Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
146	33927747.2	1469106	31048353.3
147	33565014.1	1469106	30685620.1
148	33697512.3	1470499	30815386.5
			36579638.0

Industrial

Indiana Michigan Power Company - Michigan

149	33600948.6	1470499	30718822.8	36483074.3
150	35937201.0	1470843	33054402.4	38819999.6
151	37387526.5	1470843	34504728.0	40270325.1
152	38066331.8	1470867	35183485.4	40949178.1
153	37688568.0	1470867	34805721.7	40571414.4
154	36345794.5	1472278	33460183.1	39231406.0
155	33952750.9	1472278	31067139.5	36838362.4
156	34957090.3	1472378	32071282.5	37842898.2
157	32942217.4	1472378	30056409.6	35828025.2

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Other Retail

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The ARIMA Procedure

Maximum Likelihood Estimation

Shift	Parameter	Estimate	Standard Error	t Value	Pr > t	Lag	Variable
0	MU	-10873.4	903.69236	-12.03	<.0001	0	KWH
0	MA1,1	-0.44466	0.11035	-4.03	<.0001	5	KWH
0	MA2,1	0.48409	0.11052	4.38	<.0001	12	KWH
0	MA3,1	0.32209	0.11770	2.74	0.0062	14	KWH
0	AR1,1	0.82169	0.06687	12.29	<.0001	1	KWH
0	AR1,2	0.44733	0.10301	4.34	<.0001	2	KWH
0	AR1,3	-0.80007	0.07087	-11.29	<.0001	3	KWH
0	NUM1	105651.1	2164.7	48.81	<.0001	0	or1
0	NUM2	29918.6	1980.7	15.10	<.0001	0	or2

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0	NUM3	-22119.8	4105.1	-5.39	<.0001	0	or3
0	NUM4	33186.8	3831.3	8.66	<.0001	0	or4
0	NUM5	-22223.7	6700.3	-3.32	0.0009	0	or5
0	NUM6	-25066.7	5784.8	-4.33	<.0001	0	or6
0	NUM7	8572.3	3700.2	2.32	0.0205	0	or7
0	NUM8	-655270.9	3868.7	-169.38	<.0001	0	or8
0	NUM9	3307.1	2133.8	1.55	0.1212	0	MET_DAYS

Constant Estimate -5774.31
Variance Estimate 44047500
Std Error Estimate 6636.829
AIC 2249.397
SBC 2292.459
Number of Residuals 109
Other Retail

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The ARIMA Procedure

Correlations of Parameter Estimates

Variable	KWH	KWH	KWH	KWH	KWH	KWH	KWH
Parameter	MA1,1	MA2,1	MA3,1	AR1,1	AR1,2	AR1,3	
or1							
NUM1							
KWH	MU	MU	MU	MU	MU	MU	MU
KWH	MA1,1	MA2,1	MA3,1	AR1,1	AR1,2	AR1,3	
-0.022	1.000	-0.041	0.007	-0.044	0.024	-0.012	
0.148	-0.086	-0.031	-0.024	0.195	-0.237	0.415	

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-0.065	KWH	MA2,1	-0.041	-0.031	1.000	0.160	0.200	0.036	-0.174
-0.210	KWH	MA3,1	0.007	-0.024	0.160	1.000	0.088	0.072	-0.016
0.020	KWH	AR1,1	-0.044	0.195	0.200	0.088	1.000	-0.836	0.661
-0.060	KWH	AR1,2	0.024	-0.237	0.036	0.072	-0.836	1.000	-0.883
0.062	KWH	AR1,3	-0.012	0.415	-0.174	-0.016	0.661	-0.883	1.000
1.000	or1	NUM1	-0.022	0.148	-0.065	-0.210	0.020	-0.060	0.062
0.365	or2	NUM2	-0.056	0.131	-0.017	-0.181	0.048	-0.062	0.066
-0.218	or3	NUM3	-0.096	-0.116	-0.018	0.212	0.074	-0.047	0.027
-0.046	or4	NUM4	0.060	-0.009	-0.010	0.126	0.077	-0.068	0.063
0.152	or5	NUM5	-0.171	0.026	-0.080	-0.072	-0.012	-0.003	-0.048
-0.083	or6	NUM6	-0.166	0.047	-0.033	-0.025	0.063	-0.031	0.000
0.056	or7	NUM7	-0.583	0.121	-0.054	-0.099	0.039	-0.048	0.059
-0.012	or8	NUM8	-0.038	0.121	0.010	0.207	0.012	0.015	0.027
-0.056	MET_DAYS	NUM9	0.054	-0.038	-0.049	-0.089	0.005	-0.031	0.021

Correlations of Parameter Estimates

MET_DAYS	Variable	or2	or3	or4	or5	or6	or7	or8
NUM9	Parameter	NUM2	NUM3	NUM4	NUM5	NUM6	NUM7	NUM8
0.054	KWH	MU	-0.056	0.060	-0.171	-0.166	-0.583	-0.038

Indiana Michigan Power Company - Michigan

-0.038	KWH	MA1,1	0.131	-0.116	-0.009	0.026	0.047	0.121	0.121	0.121
-0.049	KWH	MA2,1	-0.017	-0.018	-0.010	-0.080	-0.033	-0.054	-0.054	0.010
-0.089	KWH	MA3,1	-0.181	0.212	0.126	-0.072	-0.025	-0.099	-0.099	0.207
0.005	KWH	AR1,1	0.048	0.074	0.077	-0.012	0.063	0.039	0.039	0.012
-0.031	KWH	AR1,2	-0.062	-0.047	-0.068	-0.003	-0.031	-0.048	-0.048	0.015
0.021	KWH	AR1,3	0.066	0.027	0.063	-0.048	0.000	0.059	0.059	0.027
-0.056	or1	NUM1	0.365	-0.218	-0.046	0.152	-0.083	0.056	0.056	-0.012
-0.112	or2	NUM2	1.000	-0.144	-0.178	0.032	0.142	0.080	0.080	-0.002
-0.295	or3	NUM3	-0.144	1.000	0.633	-0.002	0.041	0.152	0.152	0.066
-0.205	or4	NUM4	-0.178	0.633	1.000	-0.016	0.016	-0.106	-0.106	0.047
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Correlations of Parameter Estimates

MET_DAYS	Variable	or2	or3	or4	or5	or6	or7	or8
NUM9	Parameter	NUM2	NUM3	NUM4	NUM5	NUM6	NUM7	NUM8
0.042	or5	0.032	-0.002	-0.016	1.000	0.159	0.084	-0.012
-0.041	or6	0.142	0.041	0.016	0.159	1.000	0.057	0.009
-0.053	or7	0.080	0.152	-0.106	0.084	0.057	1.000	0.016

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or8	NUM8	-0.002	0.066	0.047	-0.012	0.009	0.016	1.000
MET_DAYS	NUM9	-0.112	-0.295	-0.205	0.042	-0.041	-0.053	-0.172

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----										
6	.	0	.	-0.020	-0.082	0.040	-0.032	-0.058						
12	8.18	6	0.2253	-0.148	0.127	0.067	-0.005	0.086						
18	11.53	12	0.4838	-0.085	0.074	0.077	-0.019	-0.043						
24	14.76	18	0.6782	0.018	-0.104	-0.100	-0.040	-0.005						

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
0	44047500	1.00000	|	*****	|																		
1	-868412	-0.01972	|	.	|	.																	
2	-3598955	-0.08171	|	.	|	**	|	.															
3	1775601	0.04031	|	.	|	*	|	.															
4	-1406773	-0.03194	|	.	|	*	|	.															

Std Error

0	
0.095783	
0.095820	
0.096457	
0.096611	

Indiana Michigan Power Company - Michigan

0.104459	19	800070	0.01816	.	.
0.104488	20	-4602826	-.10450	**	.
0.105442	21	-4422066	-.10039	**	.
0.106316	22	-1757105	-.03989	*	.
0.106453	23	-216307	-.00491	.	.
0.106455	24	1103984	0.02506	.	* .

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.05920												*	.									
2	0.07381												*	.									
3	0.04119												*	.									
4	0.04233												*	.									
5	0.00163												.	.									
6	0.02288												.	.									
7	0.12172												.	.	**	.							
8	-0.16605												.	.	***	.							
9	-0.10033												.	.	**	.							
10	-0.04535												.	.	*	.							
11	-0.12379												.	.	**	.							
12	-0.12880												.	.	***	.							

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Inverse Autocorrelations

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Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
17	-0.03625																						
18	0.08926	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
19	0.02460	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
20	-0.13551	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
21	-0.08019	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
22	-0.05827	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
23	-0.06182	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|
24	-0.00332	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|	|

Model for variable KWH

Estimated Intercept -10873.4
Period(s) of Differencing 12

Autoregressive Factors

Factor 1: $1 - 0.82169 B^{**}(1) - 0.44733 B^{**}(2) + 0.80007 B^{**}(3)$

Moving Average Factors

Factor 1: $1 + 0.44466 B^{**}(5)$
Factor 2: $1 - 0.48409 B^{**}(12)$
Factor 3: $1 - 0.32209 B^{**}(14)$

Input Number 1

Input Variable or1
Period(s) of Differencing 12
Overall Regression Factor 105651.1
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Input Number 2
Input Variable or2
Period(s) of Differencing 12
Overall Regression Factor 29918.6

Input Number 3
Input Variable or3
Period(s) of Differencing 12
Overall Regression Factor -22119.8

Input Number 4
Input Variable or4
Period(s) of Differencing 12
Overall Regression Factor 33186.82

Input Number 5
Input Variable or5
Period(s) of Differencing 12
Overall Regression Factor -22223.7

Input Number 6

Input Variable or6
Period(s) of Differencing 12
Overall Regression Factor -25066.7

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Input Number 7

Input Variable or7
Period(s) of Differencing 12
Overall Regression Factor 8572.26

Input Number 8

Input Variable or8
Period(s) of Differencing 12
Overall Regression Factor -655271

Input Number 9

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 3307.051

Outlier Detection Summary

Maximum number searched	3
Number found	3
Significance used	0.05

The ARIMA Procedure

Outlier Details

Obs	Time ID	Type	Estimate	Chi-Square	Approx Prob> ChiSq
6	JUN2009	Additive	13708.5	18.16	<.0001
26	FEB2011	Shift	-8417.8	10.81	0.0010
68	AUG2014	Additive	-6164.9	7.82	0.0052

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
122	929752.7	6636.83	916744.7 942760.6
123	914262.1	8589.95	897426.1 931098.1
124	783627.2	11370.45	761341.5 805912.9
125	696221.2	11826.08	673042.5 719399.9
126	627972.4	11939.36	604571.6 651373.1
127	664722.9	11941.15	641318.7 688127.1
128	751816.2	12113.64	728073.9 775558.5
129	827374.1	12498.81	802876.8 851871.3
130	959583.8	12920.94	934259.2 984908.3
131	1018554.1	13149.15	992782.2 1044325.9
132	1111527.5	13187.60	1085680.3 1137374.7
133	1100776.2	13206.31	1074892.3 1126660.1
134	914272.7	14306.98	886231.5 942313.8
135	902121.4	15378.97	871979.1 932263.6
136	771190.9	15995.18	739841.0 802540.9
137	686053.0	16088.85	654519.4 717586.6
138	618424.7	16127.93	586814.5 650034.8
139	655472.2	16269.51	623584.5 687359.9

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140	743195.9	16673.64	710516.2	775875.7
141	818706.3	17148.84	785095.2	852317.4
142	950388.7	17447.21	916192.8	984584.6
143	1008919.0	17512.78	974594.6	1043243.4
144	1101044.0	17520.69	1066704.1	1135383.9
145	1090131.2	17674.35	1055490.1	1124772.3
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Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits
146	903759.8	18930.77	866656.2 940863.4
147	891040.0	19917.61	852002.2 930077.8
148	760390.7	20574.61	720065.2 800716.2
149	675030.0	20635.34	634585.5 715474.6
150	607851.7	20679.23	567321.1 648382.2
151	645078.9	20896.12	604123.3 686034.6
152	732828.2	21341.15	691000.4 774656.1
153	808222.9	21773.75	765547.1 850898.6
154	939677.8	21991.29	896575.6 982779.9
155	997949.0	22013.95	954802.5 1041095.6
156	1089852.0	22049.67	1046635.4 1133068.6
157	1078822.8	22260.00	1035194.0 1122451.6

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2009	1	147,217,017	1,346				IMM
2	2009	1	74,462,760	4,358				IMM
3.1	2009	1	42,224,913					IMM
4	2009	1	1,228,516					IMM
1	2009	2	133,569,887	1,225				IMM
2	2009	2	68,553,690	4,022				IMM
3.1	2009	2	42,406,568					IMM
4	2009	2	1,051,619					IMM
1	2009	3	111,719,983	1,013				IMM
2	2009	3	63,917,868	3,702				IMM
3.1	2009	3	39,224,919					IMM
4	2009	3	1,027,596					IMM
1	2009	4	96,248,602	880				IMM
2	2009	4	61,742,286	3,613				IMM
3.1	2009	4	43,610,032					IMM
4	2009	4	926,234					IMM
1	2009	5	81,511,195	746				IMM
2	2009	5	61,244,273	3,584				IMM
3.1	2009	5	41,198,520					IMM
4	2009	5	825,921					IMM
1	2009	6	81,811,560	749				IMM
2	2009	6	64,829,248	3,775				IMM
3.1	2009	6	42,192,774					IMM
4	2009	6	792,334					IMM
1	2009	7	97,546,023	893				IMM
2	2009	7	72,155,016	4,197				IMM
3.1	2009	7	42,632,450					IMM
4	2009	7	808,076					IMM
1	2009	8	98,468,414	902				IMM
2	2009	8	73,187,401	4,256				IMM
3.1	2009	8	44,857,089					IMM
4	2009	8	878,169					IMM
1	2009	9	95,785,602	877				IMM
2	2009	9	73,067,942	4,252				IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2009	9	45,554,288					IMM
4	2009	9	936,675					IMM
1	2009	10	84,007,922	769				IMM
2	2009	10	64,546,860	3,751				IMM
3.1	2009	10	43,957,964					IMM
4	2009	10	1,036,846					IMM
1	2009	11	88,544,334	811				IMM
2	2009	11	62,275,665	3,625				IMM
3.1	2009	11	40,424,947					IMM
4	2009	11	1,080,626					IMM
1	2009	12	114,674,522	1,049				IMM
2	2009	12	68,496,222	3,983				IMM
3.1	2009	12	47,856,084					IMM
4	2009	12	1,180,071					IMM
1	2010	1	140,860,233	1,286	1254.379	1357.824	-19.7301	IMM
2	2010	1	72,218,790	4,208	4055.233	4486.027	-62.3206	IMM
3.1	2010	1	43,319,793		39637585	46854474	73763.08	IMM
4	2010	1	1,168,544		1140994	1198938	-1421.91	IMM
1	2010	2	125,456,107	1,166	1082.959	1179.001	34.66565	IMM
2	2010	2	67,002,364	3,975	3718.944	4077.34	76.84399	IMM
3.1	2010	2	43,794,012		41503526	48720415	-1317958	IMM
4	2010	2	1,011,348		972816.1	1011299	19290.5	IMM
1	2010	3	110,084,060	987	988.9156	1084.576	-49.7103	IMM
2	2010	3	62,881,005	3,580	3497.492	3847.017	-91.9436	IMM
3.1	2010	3	42,239,694		37990429	45015341	736809.4	IMM
4	2010	3	997,983		986238.1	1024720	-7496.03	IMM
1	2010	4	88,105,862	806	770.5915	864.384	-11.499	IMM
2	2010	4	60,935,719	3,545	3393.809	3743.321	-23.73	IMM
3.1	2010	4	43,174,475		41426794	48451707	-1764775	IMM
4	2010	4	900,212		888005.4	919504.4	-3542.89	IMM
1	2010	5	77,523,409	710	646.887	738.2103	17.47019	IMM
2	2010	5	58,830,831	3,433	3269.702	3619.19	-11.0736	IMM
3.1	2010	5	42,633,229		39765328	46721839	-610354	IMM
4	2010	5	823,017		798308.9	829807.7	8958.699	IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2010	6	92,481,663	846	797,9504	889,2237	2,005961	IMM
2	2010	6	69,493,829	4,000	3795.883	4145.327	29,27016	IMM
3.1	2010	6	47,806,500		40891252	47847763	3436992	IMM
4	2010	6	771,907		770335	801203.8	-13862.4	IMM
1	2010	7	118,744,276	1,086	978.0922	1069.338	62.7315	IMM
2	2010	7	77,777,461	4,511	4314.984	4664.348	21.78777	IMM
3.1	2010	7	46,530,552		41262658	48186988	1805729	IMM
4	2010	7	797,443		777275.5	807824.7	4892.914	IMM
1	2010	8	130,577,268	1,195	1134.944	1226.152	14.84234	IMM
2	2010	8	82,799,257	4,769	4731.986	5081.208	-137.604	IMM
3.1	2010	8	49,261,151		45011314	51935644	787672.1	IMM
4	2010	8	803,989		786958.3	817507.4	1756.139	IMM
1	2010	9	109,440,690	1,002	970.2412	1060.215	-13.3359	IMM
2	2010	9	76,109,552	4,412	4344.847	4693.792	-106.916	IMM
3.1	2010	9	46,545,768		45006510	51794859	-1854916	IMM
4	2010	9	855,179		856260.2	886258.3	-16080.2	IMM
1	2010	10	79,607,338	728	717.793	805.6544	-33.3924	IMM
2	2010	10	64,720,587	3,737	3519.135	3867.648	43,14714	IMM
3.1	2010	10	45,281,023		42471734	49260083	-584885	IMM
4	2010	10	1,123,718		1101639	1131608	7094.777	IMM
1	2010	11	82,131,963	751	724.0338	811.1353	-16.8834	IMM
2	2010	11	59,205,184	3,413	3354.369	3701.728	-115.253	IMM
3.1	2010	11	40,370,894		38242704	44918725	-1209820	IMM
4	2010	11	1,053,643		1013432	1041592	26130.93	IMM
1	2010	12	118,483,001	1,084	1030.228	1117.004	9,934717	IMM
2	2010	12	65,691,659	3,838	3811.398	4158.008	-146.452	IMM
3.1	2010	12	49,947,312		46460492	53136513	148809.8	IMM
4	2010	12	1,215,642		1206655	1234752	-5061.57	IMM
1	2011	1	141,843,455	1,296	1252.947	1336.297	1,782107	IMM
2	2011	1	71,321,249	4,154	3863.81	4200.4	122,2079	IMM
3.1	2011	1	39,305,929		39499617	45473758	-3180758	IMM
4	2011	1	1,194,488		1173946	1201221	6904,265	IMM
1	2011	2	122,076,535	1,140	1122.904	1204.8	-23,4294	IMM
2	2011	2	61,635,854	3,636	3697.949	4029.949	-228,044	IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2011	2	33,486,706		30387290	36361431	112345.3	IMM
4	2011	2	997,963		999092.8	1026281	-14723.7	IMM
1	2011	3	108,429,022	967	936.2151	1018.087	-10.5191	IMM
2	2011	3	65,102,353	3,617	3283.382	3614.686	167.9644	IMM
3.1	2011	3	48,705,370		43588473	49529462	2146403	IMM
4	2011	3	995,440		981489.3	1008594	398.4005	IMM
1	2011	4	94,147,833	862	817.506	899.2754	3.997953	IMM
2	2011	4	58,548,685	3,383	3236.061	3567.347	-18.7558	IMM
3.1	2011	4	38,793,628		38046247	43987236	-2223114	IMM
4	2011	4	858,305		859891.7	886888.7	-15085.2	IMM
1	2011	5	84,846,582	777	721.7161	803.1234	14.99074	IMM
2	2011	5	60,106,941	3,466	3397.185	3728.438	-96.4367	IMM
3.1	2011	5	40,977,342		37863287	43788150	151623.2	IMM
4	2011	5	770,848		773832.7	800792.2	-16464.4	IMM
1	2011	6	92,218,422	845	810.0811	891.4789	-5.69306	IMM
2	2011	6	67,813,012	3,902	3789.209	4120.4	-52.7956	IMM
3.1	2011	6	40,757,193		39879300	45804162	-2084538	IMM
4	2011	6	701,316		703721.6	730581.1	-15835.4	IMM
1	2011	7	112,888,383	1,036	1014.39	1095.66	-19.0857	IMM
2	2011	7	77,276,588	4,464	4312.545	4643.623	-13.8097	IMM
3.1	2011	7	41,555,984		39354864	45273426	-758161	IMM
4	2011	7	736,074		715290.3	742146.2	7355.764	IMM
1	2011	8	125,354,177	1,149	1142.283	1223.496	-34.0526	IMM
2	2011	8	81,753,553	4,669	4615.556	4946.433	-111.764	IMM
3.1	2011	8	45,272,560		41972639	47891201	340640	IMM
4	2011	8	817,486		802040.5	828831	2050.246	IMM
1	2011	9	101,302,976	930	883.9973	965.1732	5.328788	IMM
2	2011	9	74,858,462	4,305	4068.761	4399.246	71.42366	IMM
3.1	2011	9	41,864,515		40315813	46211825	-1399304	IMM
4	2011	9	891,411		883286.7	910050.3	-5257.51	IMM
1	2011	10	77,703,106	714	670.1569	751.0237	3.094118	IMM
2	2011	10	63,849,091	3,676	3477.297	3807.17	34.01535	IMM
3.1	2011	10	42,128,021		39336929	45232941	-156914	IMM
4	2011	10	1,019,153		1004392	1031156	1378.989	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2011	11	85,844,823	787	724,4529	805.1756	22.57237	IMM
2	2011	11	60,387,297	3,477	3316.071	3644.292	-3.05261	IMM
3.1	2011	11	39,818,993		36046101	41908636	841624.6	IMM
4	2011	11	1,096,349		1078811	1105511	4188.106	IMM
1	2011	12	108,052,665	992	932.9908	1013.711	18.34915	IMM
2	2011	12	63,386,718	3,653	3509.491	3836.637	-19.651	IMM
3.1	2011	12	39,488,422		37727277	43589813	-1170123	IMM
4	2011	12	1,197,617		1193033	1219733	-8766.31	IMM
1	2012	1	122,171,902	1,120	1099.95	1180.659	-20.2937	IMM
2	2012	1	68,731,468	3,948	3820.769	4133.16	-28.6953	IMM
3.1	2012	1	39,200,582		35624429	41241488	767623.2	IMM
4	2012	1	1,184,161		1179280	1205733	-8345.85	IMM
1	2012	2	111,821,727	1,024	984.6496	1065.321	-0.53586	IMM
2	2012	2	62,834,833	3,620	3421.002	3726.626	45.70411	IMM
3.1	2012	2	40,327,136		37503525	43120583	15082.05	IMM
4	2012	2	988,845		976969.8	1003384	-1332.05	IMM
1	2012	3	100,362,146	920	851.3932	932.0634	28.61159	IMM
2	2012	3	62,129,085	3,582	3458.644	3763.192	-29.1651	IMM
3.1	2012	3	37,984,663		35109458	40713930	72969.08	IMM
4	2012	3	949,416		927959.4	954234.5	8319.055	IMM
1	2012	4	80,134,141	735	723.6696	804.3264	-28.6133	IMM
2	2012	4	60,220,758	3,473	3318.155	3622.693	2.314626	IMM
3.1	2012	4	38,904,027		37145174	42749647	-1043384	IMM
4	2012	4	843,291		833510.4	859738.3	-3333.38	IMM
1	2012	5	79,413,172	728	683.7495	764.4002	4.372784	IMM
2	2012	5	60,488,266	3,480	3298.977	3603.499	28.89909	IMM
3.1	2012	5	38,969,394		36235529	41832545	-64643.3	IMM
4	2012	5	791,312		774620.6	800839.5	3581.922	IMM
1	2012	6	93,011,071	854	805.4059	886.0526	8.335514	IMM
2	2012	6	70,289,560	4,036	3828.763	4133.255	54.90961	IMM
3.1	2012	6	43,007,071		38648770	44245786	1559793	IMM
4	2012	6	687,943		687531	713749.8	-12697.4	IMM
1	2012	7	134,188,984	1,231	1169.768	1250.381	20.67875	IMM
2	2012	7	88,171,641	5,060	4741.889	5046.325	165.9583	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2012	7	41,377,754		38937221	44531700	-356707	IMM
4	2012	7	728,769		718506	744712.5	-2840.27	IMM
1	2012	8	121,291,087	1,112	1091.415	1172.012	-20.1546	IMM
2	2012	8	80,851,130	4,632	4577.51	4881.848	-97.7035	IMM
3.1	2012	8	45,062,414		41920650	47515129	344524.9	IMM
4	2012	8	811,166		801201.2	827404.8	-3137.02	IMM
1	2012	9	100,649,082	924	877.0112	957.6082	6.534071	IMM
2	2012	9	75,225,506	4,310	4204.772	4508.917	-46.9153	IMM
3.1	2012	9	42,659,641		40093860	45680359	-227469	IMM
4	2012	9	891,658		879788.1	905974.8	-1223.47	IMM
1	2012	10	79,134,350	726	659.988	740.5838	25.70401	IMM
2	2012	10	62,465,638	3,578	3533.319	3837.166	-106.78	IMM
3.1	2012	10	36,518,795		33162141	38748640	563404.4	IMM
4	2012	10	1,029,596		1006897	1033080	9607.704	IMM
1	2012	11	87,814,940	806	785.1026	865.6942	-19.6237	IMM
2	2012	11	61,095,201	3,501	3385.046	3688.09	-35.4107	IMM
3.1	2012	11	39,356,722		36329632	41900662	241574.5	IMM
4	2012	11	1,093,490		1088132	1114289	-7720.37	IMM
1	2012	12	106,499,132	977	937.264	1017.856	-0.32419	IMM
2	2012	12	65,149,829	3,738	3555.438	3857.985	30.87261	IMM
3.1	2012	12	38,244,735		36820221	42391251	-1361001	IMM
4	2012	12	1,187,449		1182832	1208987	-8460.54	IMM
1	2013	1	126,161,228	1,154	1113.772	1194.363	0.24033	IMM
2	2013	1	68,216,509	3,898	3874.802	4170.295	-124.685	IMM
3.1	2013	1	35,484,155		35327644	40778324	-2568829	IMM
4	2013	1	1,175,528		1156085	1182216	6377.183	IMM
1	2013	2	117,231,910	1,074	1009.672	1090.261	23.80223	IMM
2	2013	2	63,998,954	3,669	3492.391	3784.222	31.14811	IMM
3.1	2013	2	38,627,939		37091580	42542261	-1188982	IMM
4	2013	2	986,706		961024.6	987150.9	12618.23	IMM
1	2013	3	111,329,666	1,020	972.9076	1053.496	6.627268	IMM
2	2013	3	63,192,341	3,627	3453.336	3744.518	28.02257	IMM
3.1	2013	3	36,501,780		34598517	40042934	-818945	IMM
4	2013	3	985,730		966867	992952.6	5820.172	IMM

Indiana Michigan Power Company - Michigan
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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2013	4	102,982,593	943	884.3672	964.9524	18.57697	IMM
2	2013	4	62,619,440	3,591	3453.805	3744.986	-8.62514	IMM
3.1	2013	4	38,448,035		36356444	41800861	-630618	IMM
4	2013	4	850,658		841712.6	867791.1	-4093.85	IMM
1	2013	5	79,851,086	732	693.348	773.9314	-1.26921	IMM
2	2013	5	61,513,732	3,527	3294.79	3585.972	86.17603	IMM
3.1	2013	5	38,415,899		36036708	41476960	-340935	IMM
4	2013	5	756,155		742295.8	768358.5	827.8402	IMM
1	2013	6	85,948,572	788	758.5119	839.0953	-10.9568	IMM
2	2013	6	66,746,422	3,822	3778.63	4069.811	-102.277	IMM
3.1	2013	6	40,411,385		38237838	43678089	-546579	IMM
4	2013	6	684,522		674403.7	700465.6	-2912.62	IMM
1	2013	7	107,648,169	987	961.0251	1041.608	-14.3345	IMM
2	2013	7	75,968,759	4,339	4282.84	4574.021	-89.5899	IMM
3.1	2013	7	43,383,979		38025072	43464017	2639435	IMM
4	2013	7	720,171		709968.3	736027.1	-2826.72	IMM
1	2013	8	101,284,738	929	845.2081	925.7909	43.27516	IMM
2	2013	8	74,176,972	4,235	3998.897	4290.079	90.32414	IMM
3.1	2013	8	41,190,532		41135769	46574714	-2664709	IMM
4	2013	8	807,619		795782.7	821841.3	-1193.01	IMM
1	2013	9	103,471,813	949	920.6015	1001.184	-11.5231	IMM
2	2013	9	78,603,007	4,487	4236.592	4527.773	105.3149	IMM
3.1	2013	9	43,385,677		39020630	44455794	1647465	IMM
4	2013	9	883,182		873936.7	899993.9	-3783.32	IMM
1	2013	10	78,753,871	723	713.0643	793.6469	-30.6839	IMM
2	2013	10	66,412,949	3,793	3645.71	3936.891	1.340984	IMM
3.1	2013	10	41,977,111		37355993	42791157	1903536	IMM
4	2013	10	1,018,318		1008851	1034907	-3561.23	IMM
1	2013	11	87,629,864	803	763.3912	843.9738	-0.22532	IMM
2	2013	11	61,967,577	3,536	3426.554	3717.736	-35.7884	IMM
3.1	2013	11	40,326,785		35369520	40796169	2243941	IMM
4	2013	11	1,083,215		1073618	1099670	-3429.08	IMM
1	2013	12	115,039,331	1,053	1031.703	1112.286	-18.9068	IMM
2	2013	12	67,923,761	3,874	3708.313	3999.495	19.7067	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2013	12	38,512,803		36633827	42060477	-834349	IMM
4	2013	12	1,176,082		1165409	1191460	-2352.58	IMM
1	2014	1	144,956,997	1,327	1261.882	1342.464	24.44609	IMM
2	2014	1	72,933,719	4,164	4028.428	4319.61	-10.1849	IMM
3.1	2014	1	40,938,486		34968702	40327071	3290599	IMM
4	2014	1	1,173,015		1157292	1183335	2701.538	IMM
1	2014	2	131,059,109	1,200	1175.301	1255.882	-15.4055	IMM
2	2014	2	67,085,571	3,835	3659.818	3950.999	30.02501	IMM
3.1	2014	2	37,702,209		36084580	41442949	-1061556	IMM
4	2014	2	978,568		968182.8	994223.6	-2635.2	IMM
1	2014	3	122,207,354	1,118	1076.046	1156.628	1.733833	IMM
2	2014	3	66,097,603	3,780	3609.146	3900.328	24.86048	IMM
3.1	2014	3	39,016,936		36126481	41481288	213051.2	IMM
4	2014	3	972,409		955430.3	981466	3960.843	IMM
1	2014	4	98,230,136	900	830.9488	911.5305	29.09522	IMM
2	2014	4	61,156,463	3,502	3341.83	3633.011	14.23808	IMM
3.1	2014	4	38,176,845		34481207	39836014	1018235	IMM
4	2014	4	832,778		819380.5	845413.9	380.7917	IMM
1	2014	5	82,373,923	756	722.4419	803.0236	-6.46753	IMM
2	2014	5	61,052,462	3,493	3426.804	3717.985	-79.2908	IMM
3.1	2014	5	38,840,176		36528068	41880332	-364024	IMM
4	2014	5	748,078		729389.2	755417.7	5674.55	IMM
1	2014	6	85,360,739	784	753.3919	833.9736	-9.25413	IMM
2	2014	6	66,220,500	3,781	3691.401	3982.582	-56.4192	IMM
3.1	2014	6	39,481,675		37973473	43325737	-1167930	IMM
4	2014	6	675,231		665103.3	691131.8	-2886.58	IMM
1	2014	7	101,270,647	931	925.105	1005.687	-34.1458	IMM
2	2014	7	71,519,542	4,082	4099.368	4390.55	-163.026	IMM
3.1	2014	7	42,058,906		38966705	44318210	416448.7	IMM
4	2014	7	711,522		702637.9	728663.6	-4128.8	IMM
1	2014	8	93,129,611	857	810.6622	891.244	5.718353	IMM
2	2014	8	71,209,760	4,059	3802.436	4093.618	110.8967	IMM
3.1	2014	8	40,648,727		39506624	44858128	-1533649	IMM
4	2014	8	789,854		782310.6	808336.3	-5469.45	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2014	9	101,034,642	929	907,9798	988.5615	-18.9943	IMM
2	2014	9	76,591,668	4,366	4237.099	4528.281	-16.9998	IMM
3.1	2014	9	43,952,596		39999414	45348839	1278470	IMM
4	2014	9	871,964		854912	880937.4	4039.302	IMM
1	2014	10	76,707,954	706	645.4777	726.0594	19.90994	IMM
2	2014	10	62,224,827	3,553	3460.8	3751.982	-53.326	IMM
3.1	2014	10	40,123,913		37347935	42697360	101265.6	IMM
4	2014	10	1,008,517		993494.9	1019520	2009.356	IMM
1	2014	11	83,925,034	772	740.546	821.1277	-9.04852	IMM
2	2014	11	60,419,757	3,456	3253.211	3544.393	56.91489	IMM
3.1	2014	11	39,935,907		35933200	41277488	1330563	IMM
4	2014	11	1,071,264		1067360	1093384	-9107.85	IMM
1	2014	12	118,279,738	1,086	1033.802	1114.383	11.82963	IMM
2	2014	12	68,675,302	3,936	3668.284	3959.465	122.5752	IMM
3.1	2014	12	39,440,443		35635938	40980226	1132361	IMM
4	2014	12	1,173,615		1155129	1181153	5473.55	IMM
1	2015	1	132,545,570	1,215	1196.428	1277.01	-21.4295	IMM
2	2015	1	72,656,614	4,126	3955.902	4247.083	24.84878	IMM
3.1	2015	1	37,962,443		34932446	40234815	378812.7	IMM
4	2015	1	1,161,488		1150403	1176426	-1926.58	IMM
1	2015	2	121,826,944	1,116	1077.865	1158.447	-1.72741	IMM
2	2015	2	66,254,638	3,782	3589.03	3880.211	47.03711	IMM
3.1	2015	2	47,728,390		43355295	48657665	1721910	IMM
4	2015	2	977,327		962615.2	988636.8	1700.985	IMM
1	2015	3	116,913,795	1,071	1063.11	1143.692	-32.8206	IMM
2	2015	3	65,753,863	3,750	3670.111	3961.292	-65.4096	IMM
3.1	2015	3	29,870,615		25064988	30365172	2155535	IMM
4	2015	3	960,434		949070	975090	-1645.98	IMM
1	2015	4	91,817,156	843	795.7966	876.3783	6.828606	IMM
2	2015	4	61,657,382	3,518	3375.5	3666.681	-3.43994	IMM
3.1	2015	4	38,658,426		35270928	40571112	737406.3	IMM
4	2015	4	828,575		812614.2	838633.9	2950.95	IMM
1	2015	5	76,169,396	700	672.9958	753.5775	-13.4319	IMM
2	2015	5	60,062,687	3,429	3245.076	3536.258	38.54721	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2015	5	37,656,761		36203606	41502157	-1196120	IMM
4	2015	5	735,501		722083.4	748102.4	408.11	IMM
1	2015	6	84,024,430	772	718,7817	799,3634	13,30307	IMM
2	2015	6	67,014,212	3,815	3655.888	3947.069	13,08258	IMM
3.1	2015	6	39,982,171		37161075	42459626	171820.7	IMM
4	2015	6	668,358		653314.7	679333.6	2033.855	IMM
1	2015	7	94,575,357	869	831.6883	912.27	-3,18349	IMM
2	2015	7	71,181,122	4,046	3910.363	4201.545	-9,96276	IMM
3.1	2015	7	42,251,031		38222941	43521019	1379051	IMM
4	2015	7	704,381		686050.7	712068.9	5321.198	IMM
1	2015	8	109,284,766	1,004	959.9803	1040.562	3,713765	IMM
2	2015	8	78,003,322	4,438	4210.086	4501.267	82,13012	IMM
3.1	2015	8	43,110,980		39444834	44742912	1017107	IMM
4	2015	8	791,810		774075.3	800093.5	4725.615	IMM
1	2015	9	100,168,276	920	866.1555	946.7373	13,35559	IMM
2	2015	9	76,521,972	4,346	4169.184	4460.366	31,33568	IMM
3.1	2015	9	41,339,297		38702045	43998876	-11163.3	IMM
4	2015	9	865,211		858625.8	884644	-6423.93	IMM
1	2015	10	78,594,206	722	663.082	743.6637	18,51604	IMM
2	2015	10	65,977,680	3,751	3545.631	3836.813	59,85439	IMM
3.1	2015	10	42,425,230		38418690	43715521	1358124	IMM
4	2015	10	998,793		989789.6	1015808	-4005.66	IMM
1	2015	11	75,774,312	696	665.2536	745.8353	-10.01	IMM
2	2015	11	60,029,934	3,414	3274.016	3565.198	-5,51767	IMM
3.1	2015	11	38,998,636		35609160	40902721	742695.2	IMM
4	2015	11	1,055,538		1043535	1069553	-1006.14	IMM
1	2015	12	101,938,654	935	920.211	1000.793	-25,1905	IMM
2	2015	12	66,018,865	3,764	3675.321	3966.503	-57,2233	IMM
3.1	2015	12	40,084,038		36584615	41878175	852643.1	IMM
4	2015	12	1,157,524		1141872	1167889	2643.385	IMM
1	2016	1	120,560,122	1,105	1086.391	1166.973	-21,3964	IMM
2	2016	1	69,010,179	3,937	3857.589	4148.77	-65,8152	IMM
3.1	2016	1	36,797,975		34117282	39383862	47402.63	IMM
4	2016	1	1,146,034		1137206	1163224	-4180.87	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2016	2	112,686,842	1,032	1010.394	1090.976	-18.9431	IMM
2	2016	2	65,037,148	3,702	3534.321	3825.502	22.11201	IMM
3.1	2016	2	34,038,576		35675868	40942448	-4270582	IMM
4	2016	2	957,599		947572.4	973589.6	-2982.01	IMM
1	2016	3	96,733,964	886	852.4376	933.0193	-7.18632	IMM
2	2016	3	61,573,894	3,497	3366.254	3657.435	-14.9174	IMM
3.1	2016	3	39,860,159		35268405	40533580	1959166	IMM
4	2016	3	949,657		929428.2	955445.1	7220.372	IMM
1	2016	4	86,068,834	805	783.5042	864.086	-18.9245	IMM
2	2016	4	60,555,865	3,528	3297.51	3588.692	85.38436	IMM
3.1	2016	4	36,942,445		33580638	38845813	729219.4	IMM
4	2016	4	812,297		801449.9	827466.8	-2161.36	IMM
1	2016	5	75,712,693	694	656.8072	737.3889	-2.98293	IMM
2	2016	5	58,721,355	3,340	3248.095	3539.276	-53.449	IMM
3.1	2016	5	36,438,071		34924535	40188627	-1118510	IMM
4	2016	5	731,403		717496.6	743513.3	898.0494	IMM
1	2016	6	88,477,625	811	749.1229	829.7046	21.43721	IMM
2	2016	6	69,552,811	3,944	3691.982	3983.164	106.0008	IMM
3.1	2016	6	38,836,293		37296158	42560251	-1091911	IMM
4	2016	6	659,719		644911.2	670927.9	1799.463	IMM
1	2016	7	106,143,026	972	885.8427	966.4244	45.97899	IMM
2	2016	7	78,849,074	4,474	4141.626	4432.807	186.4896	IMM
3.1	2016	7	39,865,956		37466988	42730774	-232925	IMM
4	2016	7	693,194		684892.4	710908.9	-4706.68	IMM
1	2016	8	120,024,629	1,099	1027.711	1108.293	31.02385	IMM
2	2016	8	82,978,274	4,695	4513.831	4805.013	35.5127	IMM
3.1	2016	8	42,518,068		38904597	44168383	981578.5	IMM
4	2016	8	783,947		764573.1	790589.7	6365.597	IMM
1	2016	9	109,953,307	1,007	911.9342	992.5159	54.38763	IMM
2	2016	9	79,295,020	4,488	4410.172	4701.353	-68.2116	IMM
3.1	2016	9	41,573,904		38410951	43673947	531455	IMM
4	2016	9	857,270		840324.4	866341	3937.313	IMM
1	2016	10	81,770,094	749	713.4571	794.0388	-4.33361	IMM
2	2016	10	69,257,379	3,918	3685.577	3976.758	87.21348	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2016	10	39,516,634		36515952	41778948	369183.9	IMM
4	2016	10	991,153		979073	1005090	-928.319	IMM
1	2016	11	75,217,846	688	650.5959	731.1776	-2.78437	IMM
2	2016	11	61,594,731	3,489	3344.094	3635.275	-0.29343	IMM
3.1	2016	11	37,350,163		35303354	40564197	-583613	IMM
4	2016	11	1,048,200		1036933	1062949	-1741.05	IMM
1	2016	12	105,081,431	960	935.269	1015.851	-15.7893	IMM
2	2016	12	67,014,009	3,796	3686.675	3977.856	-36.0828	IMM
3.1	2016	12	37,883,203		35567349	40828192	-314567	IMM
4	2016	12	1,139,331		1132431	1158447	-6107.89	IMM
1	2017	1	129,158,460	1,178	1129.776	1210.358	8.396912	IMM
2	2017	1	72,128,296	4,086	3876.023	4167.205	64.51199	IMM
3.1	2017	1	36,346,716		33194953	38437900	530289.5	IMM
4	2017	1	1,131,893		1117353	1143369	1532.336	IMM
1	2017	2	105,433,067	962	907.3465	987.9282	13.9484	IMM
2	2017	2	63,868,419	3,629	3469.721	3760.902	13.36966	IMM
3.1	2017	2	35,396,687		33723890	38966837	-948677	IMM
4	2017	2	945,970		925771.2	951787.4	7190.711	IMM
1	2017	3	92,536,317	843	797.9707	878.5524	4.517675	IMM
2	2017	3	60,858,132	3,456	3338.764	3629.946	-28.6663	IMM
3.1	2017	3	34,884,529		33789955	39031971	-1526434	IMM
4	2017	3	935,988		928818.2	954834.4	-5838.3	IMM
1	2017	4	87,115,872	795	786.4362	867.0179	-31.6348	IMM
2	2017	4	59,763,421	3,399	3282.274	3573.456	-28.933	IMM
3.1	2017	4	34,662,374		33036024	38278041	-994659	IMM
4	2017	4	805,154		792501.4	818517.5	-355.435	IMM
1	2017	5	72,921,768	665	631.8061	712.3878	-6.69774	IMM
2	2017	5	58,476,379	3,320	3195.31	3486.491	-20.4541	IMM
3.1	2017	5	35,333,132		33265980	38507265	-553490	IMM
4	2017	5	719,123		701592.6	727608.7	4522.33	IMM
1	2017	6	85,033,112	775	732.2832	812.865	2.907532	IMM
2	2017	6	68,092,756	3,859	3600.347	3891.529	112.6644	IMM
3.1	2017	6	38,093,061		35662436	40903721	-190017	IMM
4	2017	6	650,936		640372.8	666388.9	-2444.89	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2017	7	103,353,194	942	881.0689	961.6506	20.99901	IMM
2	2017	7	76,614,851	4,344	4098.356	4389.537	99.79146	IMM
3.1	2017	7	40,851,972		36383579	41624659	1847853	IMM
4	2017	7	687,228		673416.7	699432.8	803.2246	IMM
1	2017	8	105,411,475	961	904.3747	984.9564	16.27627	IMM
2	2017	8	78,076,864	4,419	4185.769	4476.951	87.50155	IMM
3.1	2017	8	37,857,466		38333489	43574570	-3096564	IMM
4	2017	8	774,929		758669.2	784685.2	3251.808	IMM
1	2017	9	90,712,453	826	784.1563	864.738	1.788912	IMM
2	2017	9	74,528,598	4,212	4013.68	4304.862	52.81226	IMM
3.1	2017	9	38,338,303		38624978	43865541	-2906957	IMM
4	2017	9	849,941		836953.2	862969.2	-20.1833	IMM
1	2017	10	83,361,503	759	724.0411	804.6229	-5.12668	IMM
2	2017	10	69,280,943	3,930	3840.955	4132.137	-56.1583	IMM
3.1	2017	10	38,319,330		35443097	40683660	255951.4	IMM
4	2017	10	981,577		966779.5	992795.6	1789.427	IMM
1	2017	11	81,427,511	741	701.9115	782.4933	-1.06293	IMM
2	2017	11	60,989,181	3,463	3385.265	3676.446	-67.9224	IMM
3.1	2017	11	36,164,500		32887802	38126916	657141	IMM
4	2017	11	1,039,966		1022997	1049013	3961.267	IMM
1	2017	12	106,081,424	964	910.3853	990.967	13.54268	IMM
2	2017	12	67,007,844	3,807	3661.741	3952.922	-0.50038	IMM
3.1	2017	12	37,568,604		34292165	39531279	656882	IMM
4	2017	12	1,128,240		1119437	1145453	-4205.34	IMM
1	2018	1	135,812,226	1,233	1219.149	1299.73	-26.621	IMM
2	2018	1	73,011,473	4,146	4015.222	4306.404	-14.7897	IMM
3.1	2018	1	35,674,038		32541924	37768931	518610.7	IMM
4	2018	1	1,123,009		1107652	1133668	2348.615	IMM
1	2018	2	111,893,621	1,016	986.391	1066.973	-11.1013	IMM
2	2018	2	64,873,749	3,676	3539.781	3830.962	-9.59698	IMM
3.1	2018	2	35,697,100		33222837	38449844	-139240	IMM
4	2018	2	937,478		920452	946467.9	4018.015	IMM
1	2018	3	99,669,997	905	859.5117	940.0934	5.04621	IMM
2	2018	3	62,145,659	3,532	3385.484	3676.665	0.932334	IMM

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revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2018	3	34,738,713		33509053	38735431	-1383529	IMM
4	2018	3	931,822		917434.8	943450.7	1379.294	IMM
1	2018	4	98,980,011	899	866.1081	946.6898	-7.80603	IMM
2	2018	4	62,731,157	3,302	3130.804	3421.986	25.76634	IMM
3.1	2018	4	35,734,376		32528721	37755099	592465.9	IMM
4	2018	4	144,073		129934.6	155950.5	1130.462	IMM
1	2018	5	80,368,366	730	718.7486	799.3303	-29.0285	IMM
2	2018	5	61,531,965	3,099	2922.476	3213.658	30.84342	IMM
3.1	2018	5	35,744,448		31973859	37199736	1157650	IMM
4	2018	5	711,581		698572.4	724588.3	0.646379	IMM
1	2018	6	92,122,059	837	762.4438	843.0255	34.16039	IMM
2	2018	6	69,891,675	3,956	3755.921	4047.103	54.32209	IMM
3.1	2018	6	37,974,645		35127016	40352892	234691.3	IMM
4	2018	6	645,336		629551.3	655567.2	2776.726	IMM
1	2018	7	116,005,874	1,052	976.345	1056.927	35.26632	IMM
2	2018	7	77,788,355	4,397	4219.928	4511.109	31.78786	IMM
3.1	2018	7	39,605,242		36595529	41821267	396843.9	IMM
4	2018	7	681,681		666040.5	692056.4	2632.508	IMM
1	2018	8	109,178,828	990	981.0535	1061.635	-30.8715	IMM
2	2018	8	78,165,044	4,413	4308.259	4599.441	-40.9869	IMM
3.1	2018	8	39,766,675		37282119	42507857	-128313	IMM
4	2018	8	768,161		754764.1	780779.9	388.9979	IMM
1	2018	9	107,477,587	976	948.1038	1028.686	-12.736	IMM
2	2018	9	77,319,406	4,373	4339.47	4630.651	-112.285	IMM
3.1	2018	9	39,968,422		37252371	42477762	103355.6	IMM
4	2018	9	842,343		825506.5	851522.4	3828.509	IMM
1	2018	10	80,492,499	730	684.9392	765.5209	4.635518	IMM
2	2018	10	64,550,403	3,627	3563.871	3855.053	-82.2197	IMM
3.1	2018	10	37,714,999		35559387	40784778	-457084	IMM
4	2018	10	973,132		957646.7	983662.6	2477.32	IMM
1	2018	11	83,209,051	755	720.4946	801.0763	-5.49308	IMM
2	2018	11	58,414,889	3,300	3279.417	3570.598	-124.918	IMM
3.1	2018	11	35,795,665		33809747	39034147	-626282	IMM
4	2018	11	1,033,048		1016806	1042822	3233.805	IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2018	12	111,537,223	1,012	981.6834	1062.265	-9.94998	IMM
2	2018	12	66,900,050	3,786	3632.848	3924.029	7.428135	IMM
3.1	2018	12	37,017,434		33125338	38349738	1279896	IMM
4	2018	12	1,125,984		1107802	1133818	5173.782	IMM
1	2019	1	118,119,744	1,070	1026.649	1107.231	3.139979	IMM
2	2019	1	66,107,680	3,757	3705.372	3996.554	-93.5637	IMM
3.1	2019	1	34,614,616		32412334	37628435	-405769	IMM
4	2019	1	1,113,913		1102966	1128982	-2060.97	IMM
1	2019	2		1,008	967.399	1047.981		IMM
2	2019	2		3,582	3435.955	3727.136		IMM
3.1	2019	2	35,466,627		32871133	38062121		IMM
4	2019	2	929,753		916744.7	942760.6		IMM
1	2019	3		940	897.3626	982.8115		IMM
2	2019	3		3,443	3284.219	3601.667		IMM
3.1	2019	3	34,816,408		32220914	37411902		IMM
4	2019	3	914,262		897426.1	931098.1		IMM
1	2019	4		815	772.4762	858.5116		IMM
2	2019	4		3,389	3219.48	3559.265		IMM
3.1	2019	4	35,010,591		32324467	37696716		IMM
4	2019	4	783,627		761341.5	805912.9		IMM
1	2019	5		671	628.2953	714.4034		IMM
2	2019	5		3,325	3150.788	3500.183		IMM
3.1	2019	5	34,900,692		32214567	37586816		IMM
4	2019	5	696,221		673042.5	719399.9		IMM
1	2019	6		781	736.5575	824.9059		IMM
2	2019	6		3,766	3588.65	3943.663		IMM
3.1	2019	6	37,092,726		34400278	39785175		IMM
4	2019	6	627,972		604571.6	651373.1		IMM
1	2019	7		1,007	962.3955	1051.019		IMM
2	2019	7		4,320	4140.707	4498.668		IMM
3.1	2019	7	38,465,407		35772958	41157856		IMM
4	2019	7	664,723		641318.7	688127.1		IMM
1	2019	8		1,001	956.9248	1045.582		IMM
2	2019	8		4,411	4231.219	4590.811		IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2019	8	39,553,473		36860575	42246370		IMM
4	2019	8	751,816		728073.9	775558.5		IMM
1	2019	9		915	870.96	959.6217		IMM
2	2019	9		4,264	4084.115	4444.596		IMM
3.1	2019	9	38,828,883		36135986	41521780		IMM
4	2019	9	827,374		802876.8	851871.3		IMM
1	2019	10		685	640.8197	729.6323		IMM
2	2019	10		3,628	3447.959	3808.927		IMM
3.1	2019	10	37,674,112		34892209	40456015		IMM
4	2019	10	959,584		934259.2	984908.3		IMM
1	2019	11		687	640.2094	733.5343		IMM
2	2019	11		3,319	3138.436	3499.672		IMM
3.1	2019	11	35,203,289		32421386	37985192		IMM
4	2019	11	1,018,554		992782.2	1044326		IMM
1	2019	12		940	892.7565	986.6277		IMM
2	2019	12		3,706	3525.799	3887.182		IMM
3.1	2019	12	36,224,871		33436752	39012991		IMM
4	2019	12	1,111,527		1085680	1137375		IMM
1	2020	1		1,114	1067.506	1161.445		IMM
2	2020	1		3,903	3722.752	4084.215		IMM
3.1	2020	1	34,205,970		31417850	36994089		IMM
4	2020	1	1,100,776		1074892	1126660		IMM
1	2020	2		998	944.6961	1050.76		IMM
2	2020	2		3,621	3428.122	3813.603		IMM
3.1	2020	2	34,522,208		31695793	37348623		IMM
4	2020	2	914,273		886231.5	942313.8		IMM
1	2020	3		926	872.3385	978.9078		IMM
2	2020	3		3,468	3273.42	3663.527		IMM
3.1	2020	3	34,143,983		31317568	36970398		IMM
4	2020	3	902,121		871979.1	932263.6		IMM
1	2020	4		801	747.2736	853.9057		IMM
2	2020	4		3,413	3216.298	3610.474		IMM
3.1	2020	4	34,385,353		31556237	37214470		IMM
4	2020	4	771,191		739841	802540.9		IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2020	5		663	609.7964	716.4363		IMM
2	2020	5		3,326	3128.072	3524.091		IMM
3.1	2020	5	34,195,797		31366681	37024914		IMM
4	2020	5	686,053		654519.4	717586.6		IMM
1	2020	6		780	725.8685	833.1882		IMM
2	2020	6		3,792	3593.872	3990.982		IMM
3.1	2020	6	36,585,293		33748117	39422470		IMM
4	2020	6	618,425		586814.5	650034.8		IMM
1	2020	7		1,007	953.7289	1061.076		IMM
2	2020	7		4,388	4189.516	4587.205		IMM
3.1	2020	7	38,016,162		35178985	40853339		IMM
4	2020	7	655,472		623584.5	687359.9		IMM
1	2020	8		994	940.0712	1047.422		IMM
2	2020	8		4,455	4255.917	4653.929		IMM
3.1	2020	8	38,691,940		35854192	41529689		IMM
4	2020	8	743,196		710516.2	775875.7		IMM
1	2020	9		908	854.7643	962.1153		IMM
2	2020	9		4,311	4111.664	4509.852		IMM
3.1	2020	9	38,319,587		35481839	41157336		IMM
4	2020	9	818,706		785095.2	852317.4		IMM
1	2020	10		675	621.5034	728.9009		IMM
2	2020	10		3,672	3473.263	3871.548		IMM
3.1	2020	10	36,963,131		34122654	39803607		IMM
4	2020	10	950,389		916192.8	984584.6		IMM
1	2020	11		675	620.8589	729.6089		IMM
2	2020	11		3,358	3158.62	3556.958		IMM
3.1	2020	11	34,565,998		31725521	37406475		IMM
4	2020	11	1,008,919		974594.6	1043243		IMM
1	2020	12		929	874.9684	983.8855		IMM
2	2020	12		3,723	3523.675	3922.042		IMM
3.1	2020	12	35,599,069		32758399	38439740		IMM
4	2020	12	1,101,044		1066704	1135384		IMM
1	2021	1		1,108	1053.801	1162.739		IMM
2	2021	1		3,942	3742.791	4141.174		IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2021	1	33,559,655		30718985	36400326		IMM
4	2021	1	1,090,131		1055490	1124772		IMM
1	2021	2		991	928.7952	1053.83		IMM
2	2021	2		3,640	3437.394	3841.795		IMM
3.1	2021	2	33,927,747		31048353	36807141		IMM
4	2021	2	903,760		866656.2	940863.4		IMM
1	2021	3		921	857.8245	984.0748		IMM
2	2021	3		3,480	3276.917	3682.504		IMM
3.1	2021	3	33,565,014		30685620	36444408		IMM
4	2021	3	891,040		852002.2	930077.8		IMM
1	2021	4		796	732.8892	859.2899		IMM
2	2021	4		3,405	3201.975	3608.618		IMM
3.1	2021	4	33,697,512		30815387	36579638		IMM
4	2021	4	760,391		720065.2	800716.2		IMM
1	2021	5		656	592.822	719.2415		IMM
2	2021	5		3,325	3121.676	3528.799		IMM
3.1	2021	5	33,600,949		30718823	36483074		IMM
4	2021	5	675,030		634585.5	715474.6		IMM
1	2021	6		770	706.0649	833.3763		IMM
2	2021	6		3,794	3590.259	3997.667		IMM
3.1	2021	6	35,937,201		33054402	38820000		IMM
4	2021	6	607,852		567321.1	648382.2		IMM
1	2021	7		997	933.1696	1060.551		IMM
2	2021	7		4,371	4167.575	4575.135		IMM
3.1	2021	7	37,387,527		34504728	40270325		IMM
4	2021	7	645,079		604123.3	686034.6		IMM
1	2021	8		986	922.6809	1050.071		IMM
2	2021	8		4,460	4256.299	4663.943		IMM
3.1	2021	8	38,066,332		35183485	40949178		IMM
4	2021	8	732,828		691000.4	774656.1		IMM
1	2021	9		901	837.121	964.5121		IMM
2	2021	9		4,311	4106.841	4514.532		IMM
3.1	2021	9	37,688,568		34805722	40571414		IMM
4	2021	9	808,223		765547.1	850898.6		IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
1	2021	10		669	605.0812	732.5332		IMM
2	2021	10		3,632	3428.216	3835.932		IMM
3.1	2021	10	36,345,795		33460183	39231406		IMM
4	2021	10	939,678		896575.6	982779.9		IMM
1	2021	11		669	604.8302	734.0964		IMM
2	2021	11		3,308	3103.815	3511.545		IMM
3.1	2021	11	33,952,751		31067139	36838362		IMM
4	2021	11	997,949		954802.5	1041096		IMM
1	2021	12		923	858.3804	987.8707		IMM
2	2021	12		3,701	3497.443	3905.18		IMM
3.1	2021	12	34,957,090		32071283	37842898		IMM
4	2021	12	1,089,852		1046635	1133069		IMM
1	2022	1		1,100	1035.639	1165.157		IMM
2	2022	1		3,904	3700.609	4108.351		IMM
3.1	2022	1	32,942,217		30056410	35828025		IMM
4	2022	1	1,078,823		1035194	1122452		IMM
1	2022	2						IMM
2	2022	2						IMM
3.1	2022	2						IMM
4	2022	2						IMM
1	2022	3						IMM
2	2022	3						IMM
3.1	2022	3						IMM
4	2022	3						IMM
1	2022	4						IMM
2	2022	4						IMM
3.1	2022	4						IMM
4	2022	4						IMM
1	2022	5						IMM
2	2022	5						IMM
3.1	2022	5						IMM
4	2022	5						IMM
1	2022	6						IMM
2	2022	6						IMM

Indiana Michigan Power Company - Michigan
Short-Term Retail Energy Models Output Data

revcls	YEAR	MONTH	KWH	USAGE	L95	U95	RESIDUAL	JURIS
3.1	2022	6	6					IMM
4	2022	6	6					IMM
1	2022	7	7					IMM
2	2022	7	7					IMM
3.1	2022	7	7					IMM
4	2022	7	7					IMM
1	2022	8	8					IMM
2	2022	8	8					IMM
3.1	2022	8	8					IMM
4	2022	8	8					IMM
1	2022	9	9					IMM
2	2022	9	9					IMM
3.1	2022	9	9					IMM
4	2022	9	9					IMM
1	2022	10	10					IMM
2	2022	10	10					IMM
3.1	2022	10	10					IMM
4	2022	10	10					IMM
1	2022	11	11					IMM
2	2022	11	11					IMM
3.1	2022	11	11					IMM
4	2022	11	11					IMM
1	2022	12	12					IMM
2	2022	12	12					IMM
3.1	2022	12	12					IMM
4	2022	12	12					IMM

SHORT-TERM WHOLESALE ENERGY

Indiana Michigan Power Company-Indiana and Michigan
Wholesale Energy

**SEE CONFIDENTIAL SECTION FOR SHORT-TERM AND LONG-TERM
WHOLESALE ENERGY INPUT DATA, MODELS AND FORECAST**

LONG-TERM RETAIL CUSTOMERS

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2027.00
MONTH	Month	6.500000
cr_imi	Residential Customers	398280.59

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
1	2000	1	389246
2	2000	2	389663
3	2000	3	390188
4	2000	4	388991
5	2000	5	388651
6	2000	6	388964
7	2000	7	388626
8	2000	8	389227
9	2000	9	389714
10	2000	10	390261
11	2000	11	390882
12	2000	12	390956
13	2001	1	392113
14	2001	2	391536
15	2001	3	392038
16	2001	4	391184
17	2001	5	391003
18	2001	6	390469
19	2001	7	390237
20	2001	8	391209
21	2001	9	391459
22	2001	10	391204
23	2001	11	391278
24	2001	12	392104
25	2002	1	393127
26	2002	2	393081
27	2002	3	393162
28	2002	4	393023
29	2002	5	392884
30	2002	6	392638
31	2002	7	392812
32	2002	8	393102
33	2002	9	393604
34	2002	10	393328
35	2002	11	393626
36	2002	12	394874
37	2003	1	395839
38	2003	2	396450
39	2003	3	395138
40	2003	4	394973
41	2003	5	393982
42	2003	6	394437
43	2003	7	394351
44	2003	8	394376
45	2003	9	394583
46	2003	10	395082
47	2003	11	395897
48	2003	12	397050
49	2004	1	398147
50	2004	2	398429

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
51	2004	3	398076
52	2004	4	397255
53	2004	5	396768
54	2004	6	396629
55	2004	7	397076
56	2004	8	397483
57	2004	9	397898
58	2004	10	398214
59	2004	11	398502
60	2004	12	399297
61	2005	1	399838
62	2005	2	398628
63	2005	3	401579
64	2005	4	398738
65	2005	5	398049
66	2005	6	397838
67	2005	7	396965
68	2005	8	398674
69	2005	9	397811
70	2005	10	397743
71	2005	11	398645
72	2005	12	399051
73	2006	1	399662
74	2006	2	399121
75	2006	3	399618
76	2006	4	398296
77	2006	5	398213
78	2006	6	397922
79	2006	7	397536
80	2006	8	398071
81	2006	9	397646
82	2006	10	398399
83	2006	11	398627
84	2006	12	399188
85	2007	1	399421
86	2007	2	399291
87	2007	3	400017
88	2007	4	399205
89	2007	5	398293
90	2007	6	398641
91	2007	7	397872
92	2007	8	398553
93	2007	9	398122
94	2007	10	392323
95	2007	11	398490
96	2007	12	399056
97	2008	1	399721
98	2008	2	399823
99	2008	3	399658
100	2008	4	398599

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
101	2008	5	397865
102	2008	6	397361
103	2008	7	397520
104	2008	8	397862
105	2008	9	397361
106	2008	10	397404
107	2008	11	397519
108	2008	12	398027
109	2009	1	398950
110	2009	2	398158
111	2009	3	399368
112	2009	4	396632
113	2009	5	396399
114	2009	6	396231
115	2009	7	396185
116	2009	8	396403
117	2009	9	396466
118	2009	10	395723
119	2009	11	396774
120	2009	12	397853
121	2010	1	398337
122	2010	2	390581
123	2010	3	407289
124	2010	4	397687
125	2010	5	396663
126	2010	6	396948
127	2010	7	396963
128	2010	8	396564
129	2010	9	396560
130	2010	10	396783
131	2010	11	397393
132	2010	12	397635
133	2011	1	399898
134	2011	2	389652
135	2011	3	407730
136	2011	4	397409
137	2011	5	397102
138	2011	6	396490
139	2011	7	396222
140	2011	8	396967
141	2011	9	396809
142	2011	10	396623
143	2011	11	397135
144	2011	12	397750
145	2012	1	398367
146	2012	2	398530
147	2012	3	398516
148	2012	4	398109
149	2012	5	397982
150	2012	6	397392

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
151	2012	7	397536
152	2012	8	397325
153	2012	9	397621
154	2012	10	398003
155	2012	11	398380
156	2012	12	398898
157	2013	1	400484
158	2013	2	399800
159	2013	3	400332
160	2013	4	398819
161	2013	5	398904
162	2013	6	398478
163	2013	7	398887
164	2013	8	398652
165	2013	9	399294
166	2013	10	401970
167	2013	11	399990
168	2013	12	401313
169	2014	1	401548
170	2014	2	400169
171	2014	3	401582
172	2014	4	401090
173	2014	5	399637
174	2014	6	399273
175	2014	7	399030
176	2014	8	400060
177	2014	9	400110
178	2014	10	399724
179	2014	11	401121
180	2014	12	402095
181	2015	1	401913
182	2015	2	402958
183	2015	3	402956
184	2015	4	401923
185	2015	5	400265
186	2015	6	401405
187	2015	7	400827
188	2015	8	400209
189	2015	9	401046
190	2015	10	401182
191	2015	11	401443
192	2015	12	402404
193	2016	1	403030
194	2016	2	403633
195	2016	3	403392
196	2016	4	403060
197	2016	5	402383
198	2016	6	402195
199	2016	7	402165
200	2016	8	401988

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
201	2016	9	402696
202	2016	10	402791
203	2016	11	403396
204	2016	12	405121
205	2017	1	405415
206	2017	2	405082
207	2017	3	405128
208	2017	4	404608
209	2017	5	404266
210	2017	6	403915
211	2017	7	404134
212	2017	8	403913
213	2017	9	404614
214	2017	10	404719
215	2017	11	405439
216	2017	12	406353
217	2018	1	406945
218	2018	2	407176
219	2018	3	406943
220	2018	4	406492
221	2018	5	406166
222	2018	6	406100
223	2018	7	406187
224	2018	8	406454
225	2018	9	406722
226	2018	10	407559
227	2018	11	407599
228	2018	12	408054
229	2019	1	.
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.

Indiana Michigan Power Company - Indiana
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imi
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

Indiana Michigan Power Company - Indiana
Residential Customers
Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2027.00
MONTH	Month	6.5000000
N_imi	Service Area Population	1641.28
hh_imi	Service Area Households	666.5654699
d1	Binary Variable - January	0.0833333
d2	Binary Variable - February	0.0833333
d3	Binary Variable - March	0.0833333
d4	Binary Variable - April	0.0833333
d5	Binary Variable - May	0.0833333
d6	Binary Variable - June	0.0833333
d7	Binary Variable - July	0.0833333
d8	Binary Variable - August	0.0833333
d9	Binary Variable - September	0.0833333
d10	Binary Variable - October	0.0833333
d11	Binary Variable - November	0.0833333
dmar05	Binary Variable - March 2005	0.0015152
dapr05	Binary Variable - April 2005	0.0015152
dfeb10	Binary Variable - February 2010	0.0015152
dmar10	Binary Variable - March 2010	0.0015152
dapr10	Binary Variable - April 2010	0.0015152
dfeb11	Binary Variable - February 2011	0.0015152
dmar11	Binary Variable - March 2011	0.0015152
dapr11	Binary Variable - April 2011	0.0015152
oct07	Binary Variable - October 2007	0.0015152
nov07	Binary Variable - November 2007	0.0015152
oct13	Binary Variable - October 2013	0.0015152
nov13	Binary Variable - November 2013	0.0015152
dec16	Binary Variable - December 2016	0.0015152
jul16on	Binary Variable - July 2016 On	0.7000000

Indiana Michigan Power Company - Indiana
Residential Customers
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	cr_imi
Dependent Variable	cr_imi
Label	Residential Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	27	4.2597E9	1.5777E8	641.54	<.0001
Error	200	49183292	245916.5		
Corrected Total	227	4.3089E9			

Root MSE	495.89965	R-Square	0.98859
Dependent Mean	398280.592	Adj R-Sq	0.98704
Coeff Var	0.12451		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	14768.05	4624.899	3.19	0.0016	Intercept
cr1	1	0.925367	0.023200	39.89	<.0001	Residential Customers, Lagged
hhnindx	1	15545.26	6297.832	2.47	0.0144	Service Area Population and Households Index
d1	1	8.631308	163.4873	0.05	0.9579	Binary Variable - January
d2	1	-833.371	168.0123	-4.96	<.0001	Binary Variable - February
d3	1	-517.607	170.5005	-3.04	0.0027	Binary Variable - March
d4	1	-1566.68	170.7074	-9.18	<.0001	Binary Variable - April
d5	1	-1314.17	163.3384	-8.05	<.0001	Binary Variable - May
d6	1	-908.344	164.3685	-5.53	<.0001	Binary Variable - June
d7	1	-930.245	164.9593	-5.64	<.0001	Binary Variable - July
d8	1	-508.822	165.3285	-3.08	0.0024	Binary Variable - August
d9	1	-638.708	164.3065	-3.89	0.0001	Binary Variable - September

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
d10	1	-673.977	168.6772	-4.00	<.0001	Binary Variable - October
d11	1	-260.045	168.4396	-1.54	0.1242	Binary Variable - November
oct07	1	-5800.38	511.6686	-11.34	<.0001	Binary Variable - October 2007
nov07	1	5316.467	521.2575	10.20	<.0001	Binary Variable - November 2007
dmar05	1	2906.163	514.2199	5.65	<.0001	Binary Variable - March 2005
dapr05	1	-1616.52	524.2603	-3.08	0.0023	Binary Variable - April 2005
dfeb10	1	-7641.29	510.5441	-14.97	<.0001	Binary Variable - February 2010
dmar10	1	15935.13	542.4373	29.38	<.0001	Binary Variable - March 2010
dapr10	1	-8072.57	550.2742	-14.67	<.0001	Binary Variable - April 2010
dfeb11	1	-10064.6	510.7777	-19.70	<.0001	Binary Variable - February 2011
dmar11	1	17178.89	558.0825	30.78	<.0001	Binary Variable - March 2011
dapr11	1	-8821.49	546.0524	-16.16	<.0001	Binary Variable - April 2011
oct13	1	2549.173	512.6933	4.97	<.0001	Binary Variable - October 2013
nov13	1	-2324.19	514.1996	-4.52	<.0001	Binary Variable - November 2013
dec16	1	853.0452	517.9642	1.65	0.1011	Binary Variable - December 2016
jul16on	1	235.4691	132.2632	1.78	0.0765	Binary Variable - July 2016 On

Durbin-Watson	2.732455
Number of Observations	228
First-Order Autocorrelation	-0.36709

Indiana Michigan Power Company - Indiana
Residential Customers
Model Residuals

time		Residual Values Sum
2000.000000	***	-188.623
2000.0833333	****	265.447
2000.1666667	*	88.119
2000.2500000	*****	-546.435
2000.3333333		-32.428
2000.4166667	***	187.618
2000.5000000	*****	-420.626
2000.5833333	*	68.372
2000.6666667	**	125.064
2000.7500000	***	252.183
2000.8333333	*	-51.870
2000.9166667	*****	-817.673
2001.0000000	***	200.786
2001.0833333	*****	-606.025
2001.1666667	**	113.458
2001.2500000	**	-156.290
2001.3333333	***	200.535
2001.4166667	*****	-571.434
2001.5000000	****	-286.621
2001.5833333	*****	479.614
2001.6666667	*	-38.868
2001.7500000	*****	-488.787
2001.8333333	*****	-591.628
2001.9166667	*	-93.269
2002.0000000	*	101.027
2002.0833333	*	-45.491
2002.1666667	***	-233.799
2002.2500000	*****	604.781
2002.3333333	*****	344.541
2002.4166667	**	-177.182
2002.5000000	***	246.491
2002.5833333	*	-47.259
2002.6666667	****	313.674
2002.7500000	*****	-395.092
2002.8333333	***	-259.929
2002.9166667	*****	447.496
2003.0000000	**	187.307
2003.0833333	*****	746.309
2003.1666667	*****	-1447.457
2003.2500000	*****	650.517
2003.3333333	*****	-439.971
2003.4166667	*****	527.142
2003.5000000	*	43.576
2003.5833333	****	-271.153
2003.6666667	*	45.175
2003.7500000	*****	390.800
2003.8333333	****	333.148
2003.9166667	*****	475.045
2004.0000000	*****	442.813

Indiana Michigan Power Company - Indiana
Residential Customers
Model Residuals

2004.0833333		*****	558.192
2004.1666667	*****		-365.071
2004.2500000		***	195.829
2004.3333333		***	221.373
2004.4166667		**	131.337
2004.5000000		*****	731.665
2004.5833333		****	304.808
2004.6666667		*****	472.922
2004.7500000		*****	438.930
2004.8333333			18.271
2004.9166667		****	283.681
2005.0000000			19.854
2005.0833333	*****		-848.767
2005.1666667			-0.000
2005.2500000			-0.000
2005.3333333		*	70.939
2005.4166667		*	91.687
2005.5000000	*****		-564.159
2005.5833333		*****	1531.263
2005.6666667	*****		-783.303
2005.7500000			-17.442
2005.8333333		*****	533.551
2005.9166667		**	-155.175
2006.0000000			14.470
2006.0833333		***	-246.012
2006.1666667		*****	439.977
2006.2500000		****	-288.561
2006.3333333		*****	603.356
2006.4166667			-12.944
2006.5000000		*	-104.492
2006.5833333		*****	368.892
2006.6666667	*****		-419.334
2006.7500000		*****	763.618
2006.8333333		**	-118.291
2006.9166667			-28.044
2007.0000000	*****		-380.221
2007.0833333		**	119.376
2007.1666667		*****	652.875
2007.2500000		***	220.801
2007.3333333		***	-190.237
2007.4166667		*****	597.183
2007.5000000	*****		-471.535
2007.5833333		*****	499.094
2007.6666667	*****		-433.516
2007.7500000			-0.000
2007.8333333			-0.000
2007.9166667		*	-87.124
2008.0000000			-14.906
2008.0833333		****	314.640
2008.1666667		***	-259.240
2008.2500000		**	-114.793
2008.3333333		**	-119.445

Indiana Michigan Power Company - Indiana
Residential Customers
Model Residuals

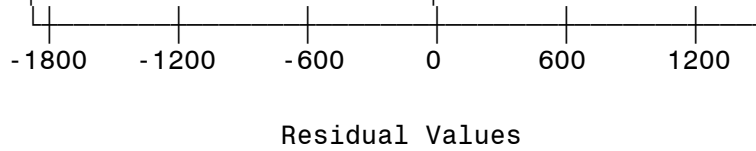
2008.4166667	*****	-348.006
2008.5000000	****	301.589
2008.5833333	*	77.521
2008.6666667	*****	-607.543
2008.7500000	*	-62.876
2008.8333333	*****	-398.664
2008.9166667	***	-254.017
2009.0000000	**	136.215
2009.0833333	*****	-660.566
2009.1666667	*****	974.416
2009.2500000	*****	-1823.890
2009.3333333	***	230.866
2009.4166667	**	-119.086
2009.5000000		20.409
2009.5833333	**	-132.649
2009.6666667	**	-134.295
2009.7500000	*****	-893.645
2009.8333333	*****	437.028
2009.9166667	****	288.796
2010.0000000	****	-286.962
2010.0833333		-0.000
2010.1666667		-0.000
2010.2500000		-0.000
2010.3333333	*****	-458.624
2010.4166667	*****	371.670
2010.5000000	**	146.739
2010.5833333	*****	-687.335
2010.6666667	***	-193.592
2010.7500000	*	65.901
2010.8333333	*	52.175
2010.9166667	*****	-534.429
2011.0000000	*****	1434.016
2011.0833333		-0.000
2011.1666667		-0.000
2011.2500000		-0.000
2011.3333333	**	170.621
2011.4166667	*****	-561.631
2011.5000000	***	-239.133
2011.5833333	****	335.376
2011.6666667	*****	-378.708
2011.7500000	*****	-379.505
2011.8333333	*	-105.463
2011.9166667	***	-220.472
2012.0000000	***	-235.153
2012.0833333	***	205.983
2012.1666667	****	-267.812
2012.2500000	*****	393.491
2012.3333333	*****	395.880
2012.4166667	*****	-478.653
2012.5000000	***	235.301
2012.5833333	*****	-530.241
2012.6666667	*	89.377

Indiana Michigan Power Company - Indiana
Residential Customers
Model Residuals

2012.7500000		***	229.783
2012.8333333		**	-164.856
2012.9166667		***	-261.000
2013.0000000		*****	773.125
2013.0833333		*****	-538.957
2013.1666667		****	307.659
2013.2500000		*****	-651.372
2013.3333333		*****	578.286
2013.4166667		****	-335.196
2013.5000000		*****	486.874
2013.5833333		*****	-551.139
2013.6666667		*****	435.074
2013.7500000			-0.000
2013.8333333			-0.000
2013.9166667		*****	567.971
2014.0000000		*****	-491.076
2014.0833333		*****	-1244.388
2014.1666667		*****	1130.394
2014.2500000		*****	381.588
2014.3333333		*****	-866.998
2014.4166667		****	-290.936
2014.5000000		**	-174.140
2014.5833333		*****	659.884
2014.6666667		**	-113.261
2014.7500000		*****	-510.453
2014.8333333		*****	829.236
2014.9166667		***	249.571
2015.0000000		*****	-901.785
2015.0833333		*****	1156.312
2015.1666667		**	-125.756
2015.2500000		*	-105.067
2015.3333333		*****	-1057.305
2015.4166667		*****	1213.082
2015.5000000		*****	-396.459
2015.5833333		*****	-900.208
2015.6666667		*****	638.744
2015.7500000			35.222
2015.8333333		***	-244.152
2015.9166667		***	214.341
2016.0000000		**	-117.174
2016.0833333		*****	751.196
2016.1666667		*****	-360.624
2016.2500000		*****	582.547
2016.3333333			-36.757
2016.4166667			-1.349
2016.5000000		*	-68.397
2016.5833333		*****	-636.842
2016.6666667		*****	366.564
2016.7500000		**	-156.867
2016.8333333		*	-52.686
2016.9166667			-0.000
2017.0000000		*****	-516.058

Indiana Michigan Power Company - Indiana
Residential Customers
Model Residuals

2017.0833333	****	-275.222
2017.1666667	***	-233.025
2017.2500000	***	256.992
2017.3333333	**	146.656
2017.4166667	****	-291.525
2017.5000000	*****	275.434
2017.5833333	*****	-569.397
2017.6666667	*****	465.250
2017.7500000	*	-44.651
2017.8333333	**	162.029
2017.9166667	**	146.903
2018.0000000	**	-177.656
2018.0833333	*****	347.973
2018.1666667	*****	-414.115
2018.2500000	*****	399.862
2018.3333333	***	238.712
2018.4166667	*	68.225
2018.5000000	***	237.485
2018.5833333		1.397
2018.6666667	**	150.577
2018.7500000	*****	772.882
2018.8333333	*****	-377.900
2018.9166667	***	-222.601



The SIMLIN Procedure

Inverse Coefficient Matrix for Endogenous Variables

Variable	cr_imi
cr_imi	1.0000

Reduced Form for Lagged Endogenous Variables

Variable	cr1
cr_imi	0.9254

Reduced Form for Exogenous Variables

Variable	hhnindx	d1	d2	d3	d4	d5	d6
cr_imi	15545	8.6313	-833.3706	-517.6075	-1567	-1314	-908.3436

Reduced Form for Exogenous Variables

Variable	d7	d8	d9	d10	d11	oct07	nov07
cr_imi	-930.2452	-508.8223	-638.7083	-673.9774	-260.0454	-5800	5316

Reduced Form for Exogenous Variables

Variable	dmar05	dapr05	dfeb10	dmar10	dapr10	dfeb11	dmar11
cr_imi	2906	-1617	-7641	15935	-8073	-10065	17179

Reduced Form for Exogenous Variables

Variable	dapr11	dec16	jul16on	Intercept
cr_imi	-8821	853.0452	235.4691	14768

Indiana Michigan Power Company - Indiana
Residential Customers
Model Simulation

The SIMLIN Procedure

Fit Statistics

Variable	N	Mean Error	Mean Pct Error	Mean Abs Error	Mean Abs Pct Error	RMS Error	RMS Pct Error	Label
cr_imi	228	-21.1056	-0.006009	822.7983	0.20682	1031	0.2593	Residential Customers

Indiana Michigan Power Company - Indiana
 Residential Customers
 Actual and Forecast

Year	Residential Customers	Growth Rate
2000	389614.08	.
2001	391319.50	0.4
2002	393271.75	0.5
2003	395179.83	0.5
2004	397814.50	0.7
2005	398629.92	0.2
2006	398524.92	0.0
2007	398273.67	-0.1
2008	398226.67	0.0
2009	397095.17	-0.3
2010	397450.25	0.1
2011	397482.25	0.0
2012	398054.92	0.1
2013	399743.58	0.4
2014	400453.25	0.2
2015	401544.25	0.3
2016	402987.50	0.4
2017	404798.83	0.4
2018	406866.42	0.5
2019	407406.52	0.1
2020	408350.80	0.2
2021	409221.45	0.2
2022	410104.65	0.2
2023	411028.32	0.2
2024	411902.68	0.2
2025	412713.94	0.2
2026	413453.18	0.2
2027	414105.41	0.2
2028	414677.39	0.1
2029	415189.42	0.1
2030	415675.98	0.1
2031	416151.04	0.1
2032	416610.64	0.1
2033	417050.19	0.1
2034	417450.13	0.1
2035	417818.68	0.1
2036	418168.58	0.1
2037	418475.33	0.1
2038	418725.66	0.1
2039	418926.56	0.0
2040	419097.99	0.0
2041	419240.07	0.0
2042	419351.05	0.0
2043	419447.62	0.0
2044	419537.64	0.0
2045	419631.68	0.0
2046	419724.30	0.0
2047	419793.15	0.0
2048	419833.91	0.0

Indiana Michigan Power Company - Indiana
Residential Customers
Actual and Forecast

Year	Residential Customers	Growth Rate
2049	419862.02	0
2050	419887.41	0
2051	419913.98	0
2052	419943.27	0
2053	419975.89	0
2054	420012.10	0

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.500000
cc_imi	Commercial Customers	50441.75

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
1	2000	1	45455
2	2000	2	45385
3	2000	3	45449
4	2000	4	45549
5	2000	5	45583
6	2000	6	45719
7	2000	7	45728
8	2000	8	45828
9	2000	9	45982
10	2000	10	46151
11	2000	11	46221
12	2000	12	46357
13	2001	1	46318
14	2001	2	46320
15	2001	3	46555
16	2001	4	46519
17	2001	5	46485
18	2001	6	46683
19	2001	7	46652
20	2001	8	46794
21	2001	9	46862
22	2001	10	46947
23	2001	11	46906
24	2001	12	46979
25	2002	1	47111
26	2002	2	47021
27	2002	3	46923
28	2002	4	47069
29	2002	5	47232
30	2002	6	47264
31	2002	7	47299
32	2002	8	47343
33	2002	9	47507
34	2002	10	47505
35	2002	11	47601
36	2002	12	47591
37	2003	1	47735
38	2003	2	47711
39	2003	3	47589
40	2003	4	47532
41	2003	5	47737
42	2003	6	47776
43	2003	7	47824
44	2003	8	47956
45	2003	9	47972
46	2003	10	48003
47	2003	11	48090
48	2003	12	48173
49	2004	1	48279

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
50	2004	2	48092
51	2004	3	48185
52	2004	4	48235
53	2004	5	48171
54	2004	6	48245
55	2004	7	48363
56	2004	8	48294
57	2004	9	48378
58	2004	10	48388
59	2004	11	48445
60	2004	12	48672
61	2005	1	48538
62	2005	2	48801
63	2005	3	49271
64	2005	4	49059
65	2005	5	49147
66	2005	6	49229
67	2005	7	49252
68	2005	8	49636
69	2005	9	49500
70	2005	10	49665
71	2005	11	49451
72	2005	12	49754
73	2006	1	50042
74	2006	2	49772
75	2006	3	49876
76	2006	4	49786
77	2006	5	49869
78	2006	6	49904
79	2006	7	49901
80	2006	8	50002
81	2006	9	50011
82	2006	10	50178
83	2006	11	50114
84	2006	12	50231
85	2007	1	50331
86	2007	2	50178
87	2007	3	50496
88	2007	4	50458
89	2007	5	50471
90	2007	6	50607
91	2007	7	50646
92	2007	8	50706
93	2007	9	50633
94	2007	10	50359
95	2007	11	50834
96	2007	12	50795
97	2008	1	51011
98	2008	2	50875

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
99	2008	3	50878
100	2008	4	50990
101	2008	5	50998
102	2008	6	51043
103	2008	7	51128
104	2008	8	51223
105	2008	9	51229
106	2008	10	51268
107	2008	11	51216
108	2008	12	50565
109	2009	1	51751
110	2009	2	51263
111	2009	3	51712
112	2009	4	51334
113	2009	5	51235
114	2009	6	51334
115	2009	7	51383
116	2009	8	51269
117	2009	9	51360
118	2009	10	51518
119	2009	11	51454
120	2009	12	51250
121	2010	1	51470
122	2010	2	50297
123	2010	3	53090
124	2010	4	51556
125	2010	5	51454
126	2010	6	51582
127	2010	7	51609
128	2010	8	51461
129	2010	9	51485
130	2010	10	51653
131	2010	11	51671
132	2010	12	50853
133	2011	1	52113
134	2011	2	50389
135	2011	3	53630
136	2011	4	51641
137	2011	5	51581
138	2011	6	51639
139	2011	7	51408
140	2011	8	51812
141	2011	9	51594
142	2011	10	51627
143	2011	11	51612
144	2011	12	51520
145	2012	1	51820
146	2012	2	51699
147	2012	3	51680

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
148	2012	4	51727
149	2012	5	51727
150	2012	6	51706
151	2012	7	51783
152	2012	8	51727
153	2012	9	51857
154	2012	10	51960
155	2012	11	51861
156	2012	12	51856
157	2013	1	52024
158	2013	2	51828
159	2013	3	51131
160	2013	4	52645
161	2013	5	51912
162	2013	6	51943
163	2013	7	52135
164	2013	8	52210
165	2013	9	52010
166	2013	10	52329
167	2013	11	51975
168	2013	12	52042
169	2014	1	52083
170	2014	2	51782
171	2014	3	51989
172	2014	4	52009
173	2014	5	51964
174	2014	6	51965
175	2014	7	51929
176	2014	8	52185
177	2014	9	52103
178	2014	10	52046
179	2014	11	52198
180	2014	12	52232
181	2015	1	52067
182	2015	2	52256
183	2015	3	52356
184	2015	4	52244
185	2015	5	52098
186	2015	6	52451
187	2015	7	52410
188	2015	8	52323
189	2015	9	52261
190	2015	10	52397
191	2015	11	52347
192	2015	12	52289
193	2016	1	52256
194	2016	2	52639
195	2016	3	52733
196	2016	4	52488

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
197	2016	5	52510
198	2016	6	52616
199	2016	7	52464
200	2016	8	52687
201	2016	9	52589
202	2016	10	52593
203	2016	11	52599
204	2016	12	52722
205	2017	1	52791
206	2017	2	52733
207	2017	3	53051
208	2017	4	53006
209	2017	5	52960
210	2017	6	52959
211	2017	7	52962
212	2017	8	52994
213	2017	9	53020
214	2017	10	53046
215	2017	11	53054
216	2017	12	53130
217	2018	1	53206
218	2018	2	53190
219	2018	3	53287
220	2018	4	53174
221	2018	5	53243
222	2018	6	53202
223	2018	7	53384
224	2018	8	53327
225	2018	9	53673
226	2018	10	53418
227	2018	11	53734
228	2018	12	53434
229	2019	1	.
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imi
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
N_IMI	Service Area Population	1641.28
gdp_imi	Service Area Gross Regional Product	94039.26
d063on	Binary Variable-July 2006 On	0.8818182
d093on	Binary Variable-July 2009 On	0.8272727
d102on	Binary Variable-April 2010 On	0.8136364
feb16on	Binary Variable-February 2016 On	0.7075758
mar11	Binary Variable-March 2011	0.0015152
feb11	Binary Variable-February 2011	0.0015152
jan11	Binary Variable-January 2011	0.0015152
aug14on	Binary Variable-August 2014 On	0.7348485
mar17on	Binary Variable-March 2017 On	0.6878788
jul18on	Binary Variable-July 2018 On	0.6636364

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j
	Y	O	—	p	0	0	1	e	m	f	j	u	a	u
0	E	N	I	—	6	9	0	1	a	e	a	1	1	1
b	A	T	M	i	3	3	2	6	r	b	n	4	7	8
s	R	H	I	m	o	o	o	o	1	1	1	n	n	n
				i	n	n	n	n	1	1	1	n	n	n
87	2007	3	1602.53	69565.69	1	0	0	0	0	0	0	0	0	0
88	2007	4	1603.00	69615.29	1	0	0	0	0	0	0	0	0	0
89	2007	5	1603.48	69660.88	1	0	0	0	0	0	0	0	0	0
90	2007	6	1603.98	69703.98	1	0	0	0	0	0	0	0	0	0
91	2007	7	1604.49	69745.62	1	0	0	0	0	0	0	0	0	0
92	2007	8	1605.02	69782.07	1	0	0	0	0	0	0	0	0	0
93	2007	9	1605.56	69802.10	1	0	0	0	0	0	0	0	0	0
94	2007	10	1606.10	69795.59	1	0	0	0	0	0	0	0	0	0
95	2007	11	1606.64	69752.30	1	0	0	0	0	0	0	0	0	0
96	2007	12	1607.18	69661.20	1	0	0	0	0	0	0	0	0	0
97	2008	1	1607.72	69509.12	1	0	0	0	0	0	0	0	0	0
98	2008	2	1608.22	69294.73	1	0	0	0	0	0	0	0	0	0
99	2008	3	1608.71	69002.79	1	0	0	0	0	0	0	0	0	0
100	2008	4	1609.18	68617.68	1	0	0	0	0	0	0	0	0	0
101	2008	5	1609.62	68131.77	1	0	0	0	0	0	0	0	0	0
102	2008	6	1610.04	67535.64	1	0	0	0	0	0	0	0	0	0
103	2008	7	1610.41	66819.04	1	0	0	0	0	0	0	0	0	0
104	2008	8	1610.74	65978.32	1	0	0	0	0	0	0	0	0	0
105	2008	9	1611.04	65070.15	1	0	0	0	0	0	0	0	0	0
106	2008	10	1611.30	64112.66	1	0	0	0	0	0	0	0	0	0
107	2008	11	1611.52	63137.47	1	0	0	0	0	0	0	0	0	0
108	2008	12	1611.73	62175.82	1	0	0	0	0	0	0	0	0	0
109	2009	1	1611.90	61244.39	1	0	0	0	0	0	0	0	0	0
110	2009	2	1612.05	60430.08	1	0	0	0	0	0	0	0	0	0
111	2009	3	1612.18	59717.33	1	0	0	0	0	0	0	0	0	0
112	2009	4	1612.30	59114.15	1	0	0	0	0	0	0	0	0	0
113	2009	5	1612.41	58680.14	1	0	0	0	0	0	0	0	0	0
114	2009	6	1612.50	58444.54	1	0	0	0	0	0	0	0	0	0
115	2009	7	1612.58	58438.66	1	1	0	0	0	0	0	0	0	0
116	2009	8	1612.67	58666.67	1	1	0	0	0	0	0	0	0	0
117	2009	9	1612.75	59090.71	1	1	0	0	0	0	0	0	0	0
118	2009	10	1612.84	59680.56	1	1	0	0	0	0	0	0	0	0
119	2009	11	1612.93	60401.18	1	1	0	0	0	0	0	0	0	0
120	2009	12	1613.03	61220.38	1	1	0	0	0	0	0	0	0	0
121	2010	1	1613.14	62118.74	1	1	0	0	0	0	0	0	0	0
122	2010	2	1613.27	63003.56	1	1	0	0	0	0	0	0	0	0
123	2010	3	1613.42	63886.73	1	1	0	0	0	0	0	0	0	0
124	2010	4	1613.60	64766.19	1	1	1	0	0	0	0	0	0	0
125	2010	5	1613.81	65577.77	1	1	1	0	0	0	0	0	0	0
126	2010	6	1614.05	66288.99	1	1	1	0	0	0	0	0	0	0
127	2010	7	1614.33	66866.86	1	1	1	0	0	0	0	0	0	0
128	2010	8	1614.65	67308.46	1	1	1	0	0	0	0	0	0	0
129	2010	9	1614.98	67613.19	1	1	1	0	0	0	0	0	0	0

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
0	E	N	I	i	3	3	2	6	r	b	n	4	7	8
b	A	T	M	m	o	o	o	o	1	1	1	o	o	o
s	R	H	I	i	n	n	n	n	1	1	1	n	n	n
130	2010	10	1615.34	67804.37	1	1	1	0	0	0	0	0	0	0
131	2010	11	1615.69	67899.11	1	1	1	0	0	0	0	0	0	0
132	2010	12	1616.03	67912.40	1	1	1	0	0	0	0	0	0	0
133	2011	1	1616.36	67859.58	1	1	1	0	0	0	1	0	0	0
134	2011	2	1616.66	67762.51	1	1	1	0	0	1	0	0	0	0
135	2011	3	1616.91	67633.69	1	1	1	0	1	0	0	0	0	0
136	2011	4	1617.13	67483.32	1	1	1	0	0	0	0	0	0	0
137	2011	5	1617.29	67330.98	1	1	1	0	0	0	0	0	0	0
138	2011	6	1617.38	67192.58	1	1	1	0	0	0	0	0	0	0
139	2011	7	1617.39	67083.61	1	1	1	0	0	0	0	0	0	0
140	2011	8	1617.33	67009.70	1	1	1	0	0	0	0	0	0	0
141	2011	9	1617.21	66970.70	1	1	1	0	0	0	0	0	0	0
142	2011	10	1617.04	66961.92	1	1	1	0	0	0	0	0	0	0
143	2011	11	1616.84	66979.58	1	1	1	0	0	0	0	0	0	0
144	2011	12	1616.63	67020.49	1	1	1	0	0	0	0	0	0	0
145	2012	1	1616.41	67082.14	1	1	1	0	0	0	0	0	0	0
146	2012	2	1616.21	67157.65	1	1	1	0	0	0	0	0	0	0
147	2012	3	1616.04	67245.65	1	1	1	0	0	0	0	0	0	0
148	2012	4	1615.92	67344.27	1	1	1	0	0	0	0	0	0	0
149	2012	5	1615.85	67448.81	1	1	1	0	0	0	0	0	0	0
150	2012	6	1615.86	67555.77	1	1	1	0	0	0	0	0	0	0
151	2012	7	1615.95	67661.87	1	1	1	0	0	0	0	0	0	0
152	2012	8	1616.15	67767.55	1	1	1	0	0	0	0	0	0	0
153	2012	9	1616.42	67870.27	1	1	1	0	0	0	0	0	0	0
154	2012	10	1616.76	67972.84	1	1	1	0	0	0	0	0	0	0
155	2012	11	1617.16	68076.34	1	1	1	0	0	0	0	0	0	0
156	2012	12	1617.60	68181.86	1	1	1	0	0	0	0	0	0	0
157	2013	1	1618.08	68292.29	1	1	1	0	0	0	0	0	0	0
158	2013	2	1618.55	68401.34	1	1	1	0	0	0	0	0	0	0
159	2013	3	1619.02	68515.38	1	1	1	0	0	0	0	0	0	0
160	2013	4	1619.52	68639.41	1	1	1	0	0	0	0	0	0	0
161	2013	5	1619.99	68770.85	1	1	1	0	0	0	0	0	0	0
162	2013	6	1620.43	68910.70	1	1	1	0	0	0	0	0	0	0
163	2013	7	1620.84	69060.01	1	1	1	0	0	0	0	0	0	0
164	2013	8	1621.20	69220.88	1	1	1	0	0	0	0	0	0	0
165	2013	9	1621.52	69386.02	1	1	1	0	0	0	0	0	0	0
166	2013	10	1621.80	69555.75	1	1	1	0	0	0	0	0	0	0
167	2013	11	1622.05	69727.80	1	1	1	0	0	0	0	0	0	0
168	2013	12	1622.27	69899.93	1	1	1	0	0	0	0	0	0	0
169	2014	1	1622.47	70072.67	1	1	1	0	0	0	0	0	0	0
170	2014	2	1622.64	70232.89	1	1	1	0	0	0	0	0	0	0
171	2014	3	1622.80	70386.82	1	1	1	0	0	0	0	0	0	0
172	2014	4	1622.96	70537.41	1	1	1	0	0	0	0	0	0	0

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
0	E	N	I	i	3	3	2	6	r	b	n	4	7	8
b	A	T	M	m	o	o	o	o	1	1	1	o	o	o
s	R	H	I	i	n	n	n	n	1	1	1	n	n	n
173	2014	5	1623.12	70676.92	1	1	1	0	0	0	0	0	0	0
174	2014	6	1623.28	70803.27	1	1	1	0	0	0	0	0	0	0
175	2014	7	1623.44	70914.19	1	1	1	0	0	0	0	0	0	0
176	2014	8	1623.61	71011.21	1	1	1	0	0	0	0	1	0	0
177	2014	9	1623.78	71093.32	1	1	1	0	0	0	0	1	0	0
178	2014	10	1623.96	71164.46	1	1	1	0	0	0	0	1	0	0
179	2014	11	1624.15	71227.09	1	1	1	0	0	0	0	1	0	0
180	2014	12	1624.33	71283.45	1	1	1	0	0	0	0	1	0	0
181	2015	1	1624.52	71336.80	1	1	1	0	0	0	0	1	0	0
182	2015	2	1624.70	71386.07	1	1	1	0	0	0	0	1	0	0
183	2015	3	1624.87	71436.08	1	1	1	0	0	0	0	1	0	0
184	2015	4	1625.04	71490.76	1	1	1	0	0	0	0	1	0	0
185	2015	5	1625.22	71550.84	1	1	1	0	0	0	0	1	0	0
186	2015	6	1625.38	71618.59	1	1	1	0	0	0	0	1	0	0
187	2015	7	1625.53	71696.35	1	1	1	0	0	0	0	1	0	0
188	2015	8	1625.68	71786.55	1	1	1	0	0	0	0	1	0	0
189	2015	9	1625.82	71885.89	1	1	1	0	0	0	0	1	0	0
190	2015	10	1625.97	71995.28	1	1	1	0	0	0	0	1	0	0
191	2015	11	1626.11	72114.06	1	1	1	0	0	0	0	1	0	0
192	2015	12	1626.26	72241.82	1	1	1	0	0	0	0	1	0	0
193	2016	1	1626.42	72380.24	1	1	1	0	0	0	0	1	0	0
194	2016	2	1626.59	72521.86	1	1	1	1	0	0	0	1	0	0
195	2016	3	1626.77	72670.63	1	1	1	1	0	0	0	1	0	0
196	2016	4	1626.97	72828.55	1	1	1	1	0	0	0	1	0	0
197	2016	5	1627.20	72992.75	1	1	1	1	0	0	0	1	0	0
198	2016	6	1627.45	73162.62	1	1	1	1	0	0	0	1	0	0
199	2016	7	1627.73	73337.69	1	1	1	1	0	0	0	1	0	0
200	2016	8	1628.05	73520.31	1	1	1	1	0	0	0	1	0	0
201	2016	9	1628.39	73703.93	1	1	1	1	0	0	0	1	0	0
202	2016	10	1628.74	73890.88	1	1	1	1	0	0	0	1	0	0
203	2016	11	1629.12	74080.46	1	1	1	1	0	0	0	1	0	0
204	2016	12	1629.52	74272.06	1	1	1	1	0	0	0	1	0	0
205	2017	1	1629.93	74468.19	1	1	1	1	0	0	0	1	0	0
206	2017	2	1630.34	74655.55	1	1	1	1	0	0	0	1	0	0
207	2017	3	1630.75	74842.99	1	1	1	1	0	0	0	1	1	0
208	2017	4	1631.18	75036.28	1	1	1	1	0	0	0	1	1	0
209	2017	5	1631.61	75228.40	1	1	1	1	0	0	0	1	1	0
210	2017	6	1632.03	75418.73	1	1	1	1	0	0	0	1	1	0
211	2017	7	1632.46	75606.65	1	1	1	1	0	0	0	1	1	0
212	2017	8	1632.88	75795.19	1	1	1	1	0	0	0	1	1	0
213	2017	9	1633.28	75978.87	1	1	1	1	0	0	0	1	1	0
214	2017	10	1633.67	76161.41	1	1	1	1	0	0	0	1	1	0
215	2017	11	1634.05	76343.47	1	1	1	1	0	0	0	1	1	0

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
0	E	N	I	i	3	3	2	6	r	b	n	4	7	8
b	A	T	M	m	o	o	o	o	1	1	1	o	o	o
s	R	H	I	i	n	n	n	n	1	1	1	n	n	n
216	2017	12	1634.42	76525.74	1	1	1	1	0	0	0	1	1	0
217	2018	1	1634.78	76711.88	1	1	1	1	0	0	0	1	1	0
218	2018	2	1635.11	76890.46	1	1	1	1	0	0	0	1	1	0
219	2018	3	1635.42	77071.13	1	1	1	1	0	0	0	1	1	0
220	2018	4	1635.73	77260.67	1	1	1	1	0	0	0	1	1	0
221	2018	5	1636.02	77453.74	1	1	1	1	0	0	0	1	1	0
222	2018	6	1636.29	77650.94	1	1	1	1	0	0	0	1	1	0
223	2018	7	1636.54	77852.87	1	1	1	1	0	0	0	1	1	1
224	2018	8	1636.78	78061.91	1	1	1	1	0	0	0	1	1	1
225	2018	9	1637.00	78268.66	1	1	1	1	0	0	0	1	1	1
226	2018	10	1637.20	78473.65	1	1	1	1	0	0	0	1	1	1
227	2018	11	1637.39	78674.13	1	1	1	1	0	0	0	1	1	1
228	2018	12	1637.57	78867.20	1	1	1	1	0	0	0	1	1	1
229	2019	1	1637.74	79053.05	1	1	1	1	0	0	0	1	1	1
230	2019	2	1637.91	79217.60	1	1	1	1	0	0	0	1	1	1
231	2019	3	1638.07	79367.19	1	1	1	1	0	0	0	1	1	1
232	2019	4	1638.24	79503.90	1	1	1	1	0	0	0	1	1	1
233	2019	5	1638.41	79619.27	1	1	1	1	0	0	0	1	1	1
234	2019	6	1638.59	79710.75	1	1	1	1	0	0	0	1	1	1
235	2019	7	1638.78	79775.51	1	1	1	1	0	0	0	1	1	1
236	2019	8	1638.97	79814.90	1	1	1	1	0	0	0	1	1	1
237	2019	9	1639.18	79831.86	1	1	1	1	0	0	0	1	1	1
238	2019	10	1639.38	79831.63	1	1	1	1	0	0	0	1	1	1
239	2019	11	1639.59	79818.91	1	1	1	1	0	0	0	1	1	1
240	2019	12	1639.80	79798.13	1	1	1	1	0	0	0	1	1	1
241	2020	1	1640.01	79773.51	1	1	1	1	0	0	0	1	1	1
242	2020	2	1640.21	79750.73	1	1	1	1	0	0	0	1	1	1
243	2020	3	1640.40	79733.45	1	1	1	1	0	0	0	1	1	1
244	2020	4	1640.59	79725.84	1	1	1	1	0	0	0	1	1	1
245	2020	5	1640.76	79732.94	1	1	1	1	0	0	0	1	1	1
246	2020	6	1640.92	79759.11	1	1	1	1	0	0	0	1	1	1
247	2020	7	1641.07	79808.86	1	1	1	1	0	0	0	1	1	1
248	2020	8	1641.20	79884.63	1	1	1	1	0	0	0	1	1	1
249	2020	9	1641.32	79981.98	1	1	1	1	0	0	0	1	1	1
250	2020	10	1641.43	80099.77	1	1	1	1	0	0	0	1	1	1
251	2020	11	1641.53	80235.47	1	1	1	1	0	0	0	1	1	1
252	2020	12	1641.63	80386.96	1	1	1	1	0	0	0	1	1	1
253	2021	1	1641.73	80554.60	1	1	1	1	0	0	0	1	1	1
254	2021	2	1641.82	80724.67	1	1	1	1	0	0	0	1	1	1
255	2021	3	1641.93	80903.12	1	1	1	1	0	0	0	1	1	1
256	2021	4	1642.04	81093.95	1	1	1	1	0	0	0	1	1	1
257	2021	5	1642.17	81289.05	1	1	1	1	0	0	0	1	1	1
258	2021	6	1642.31	81486.06	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

				g				f				a	m	j
				d	d	d	d	e	m	f	j	u	a	u
	Y	M	N	p	0	0	1	b	m	f	j	g	r	l
0	E	O	I	i	6	9	0	1	a	e	a	1	1	1
b	A	T	M	m	3	3	2	6	r	b	n	4	7	8
s	R	H	I	i	o	o	o	o	1	1	1	n	n	n
259	2021	7	1642.47	81682.75	1	1	1	1	0	0	0	1	1	1
260	2021	8	1642.66	81880.78	1	1	1	1	0	0	0	1	1	1
261	2021	9	1642.85	82073.07	1	1	1	1	0	0	0	1	1	1
262	2021	10	1643.06	82262.20	1	1	1	1	0	0	0	1	1	1
263	2021	11	1643.28	82447.60	1	1	1	1	0	0	0	1	1	1
264	2021	12	1643.51	82628.62	1	1	1	1	0	0	0	1	1	1
265	2022	1	1643.76	82807.53	1	1	1	1	0	0	0	1	1	1
266	2022	2	1644.00	82972.48	1	1	1	1	0	0	0	1	1	1
267	2022	3	1644.24	83131.57	1	1	1	1	0	0	0	1	1	1
268	2022	4	1644.50	83289.47	1	1	1	1	0	0	0	1	1	1
269	2022	5	1644.75	83439.97	1	1	1	1	0	0	0	1	1	1
270	2022	6	1645.00	83582.54	1	1	1	1	0	0	0	1	1	1
271	2022	7	1645.25	83716.56	1	1	1	1	0	0	0	1	1	1
272	2022	8	1645.50	83844.37	1	1	1	1	0	0	0	1	1	1
273	2022	9	1645.74	83963.04	1	1	1	1	0	0	0	1	1	1
274	2022	10	1645.98	84075.94	1	1	1	1	0	0	0	1	1	1
275	2022	11	1646.22	84184.38	1	1	1	1	0	0	0	1	1	1
276	2022	12	1646.44	84289.59	1	1	1	1	0	0	0	1	1	1
277	2023	1	1646.68	84394.58	1	1	1	1	0	0	0	1	1	1
278	2023	2	1646.90	84493.85	1	1	1	1	0	0	0	1	1	1
279	2023	3	1647.11	84593.69	1	1	1	1	0	0	0	1	1	1
280	2023	4	1647.34	84698.71	1	1	1	1	0	0	0	1	1	1
281	2023	5	1647.56	84806.86	1	1	1	1	0	0	0	1	1	1
282	2023	6	1647.78	84919.36	1	1	1	1	0	0	0	1	1	1
283	2023	7	1648.00	85037.46	1	1	1	1	0	0	0	1	1	1
284	2023	8	1648.22	85163.45	1	1	1	1	0	0	0	1	1	1
285	2023	9	1648.43	85292.46	1	1	1	1	0	0	0	1	1	1
286	2023	10	1648.65	85425.63	1	1	1	1	0	0	0	1	1	1
287	2023	11	1648.87	85562.02	1	1	1	1	0	0	0	1	1	1
288	2023	12	1649.08	85700.76	1	1	1	1	0	0	0	1	1	1
289	2024	1	1649.30	85843.25	1	1	1	1	0	0	0	1	1	1
290	2024	2	1649.50	85981.69	1	1	1	1	0	0	0	1	1	1
291	2024	3	1649.70	86119.80	1	1	1	1	0	0	0	1	1	1
292	2024	4	1649.91	86259.01	1	1	1	1	0	0	0	1	1	1
293	2024	5	1650.11	86396.10	1	1	1	1	0	0	0	1	1	1
294	2024	6	1650.31	86530.21	1	1	1	1	0	0	0	1	1	1
295	2024	7	1650.51	86660.45	1	1	1	1	0	0	0	1	1	1
296	2024	8	1650.71	86788.63	1	1	1	1	0	0	0	1	1	1
297	2024	9	1650.89	86910.98	1	1	1	1	0	0	0	1	1	1
298	2024	10	1651.08	87029.99	1	1	1	1	0	0	0	1	1	1
299	2024	11	1651.26	87146.11	1	1	1	1	0	0	0	1	1	1
300	2024	12	1651.44	87259.72	1	1	1	1	0	0	0	1	1	1
301	2025	1	1651.62	87373.07	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
0	E	N	I	i	3	3	2	6	r	b	n	4	7	8
b	A	T	M	m	o	o	o	o	1	1	1	o	o	o
s	R	H	I	i	n	n	n	n	1	1	1	n	n	n
302	2025	2	1651.79	87479.37	1	1	1	1	0	0	0	1	1	1
303	2025	3	1651.96	87584.47	1	1	1	1	0	0	0	1	1	1
304	2025	4	1652.13	87692.33	1	1	1	1	0	0	0	1	1	1
305	2025	5	1652.30	87799.75	1	1	1	1	0	0	0	1	1	1
306	2025	6	1652.47	87907.17	1	1	1	1	0	0	0	1	1	1
307	2025	7	1652.63	88014.97	1	1	1	1	0	0	0	1	1	1
308	2025	8	1652.79	88125.16	1	1	1	1	0	0	0	1	1	1
309	2025	9	1652.95	88234.14	1	1	1	1	0	0	0	1	1	1
310	2025	10	1653.11	88343.68	1	1	1	1	0	0	0	1	1	1
311	2025	11	1653.27	88453.73	1	1	1	1	0	0	0	1	1	1
312	2025	12	1653.42	88564.26	1	1	1	1	0	0	0	1	1	1
313	2026	1	1653.57	88677.05	1	1	1	1	0	0	0	1	1	1
314	2026	2	1653.71	88784.78	1	1	1	1	0	0	0	1	1	1
315	2026	3	1653.85	88892.85	1	1	1	1	0	0	0	1	1	1
316	2026	4	1653.99	89004.93	1	1	1	1	0	0	0	1	1	1
317	2026	5	1654.12	89117.32	1	1	1	1	0	0	0	1	1	1
318	2026	6	1654.26	89229.97	1	1	1	1	0	0	0	1	1	1
319	2026	7	1654.39	89342.87	1	1	1	1	0	0	0	1	1	1
320	2026	8	1654.51	89457.98	1	1	1	1	0	0	0	1	1	1
321	2026	9	1654.64	89571.81	1	1	1	1	0	0	0	1	1	1
322	2026	10	1654.75	89686.49	1	1	1	1	0	0	0	1	1	1
323	2026	11	1654.87	89802.23	1	1	1	1	0	0	0	1	1	1
324	2026	12	1654.98	89919.31	1	1	1	1	0	0	0	1	1	1
325	2027	1	1655.10	90039.92	1	1	1	1	0	0	0	1	1	1
326	2027	2	1655.20	90156.43	1	1	1	1	0	0	0	1	1	1
327	2027	3	1655.31	90274.90	1	1	1	1	0	0	0	1	1	1
328	2027	4	1655.41	90399.63	1	1	1	1	0	0	0	1	1	1
329	2027	5	1655.52	90526.93	1	1	1	1	0	0	0	1	1	1
330	2027	6	1655.62	90657.01	1	1	1	1	0	0	0	1	1	1
331	2027	7	1655.73	90790.13	1	1	1	1	0	0	0	1	1	1
332	2027	8	1655.83	90928.46	1	1	1	1	0	0	0	1	1	1
333	2027	9	1655.93	91067.18	1	1	1	1	0	0	0	1	1	1
334	2027	10	1656.04	91208.11	1	1	1	1	0	0	0	1	1	1
335	2027	11	1656.14	91350.84	1	1	1	1	0	0	0	1	1	1
336	2027	12	1656.24	91494.98	1	1	1	1	0	0	0	1	1	1
337	2028	1	1656.35	91642.52	1	1	1	1	0	0	0	1	1	1
338	2028	2	1656.45	91785.91	1	1	1	1	0	0	0	1	1	1
339	2028	3	1656.55	91929.51	1	1	1	1	0	0	0	1	1	1
340	2028	4	1656.65	92075.34	1	1	1	1	0	0	0	1	1	1
341	2028	5	1656.76	92220.61	1	1	1	1	0	0	0	1	1	1
342	2028	6	1656.86	92364.92	1	1	1	1	0	0	0	1	1	1
343	2028	7	1656.96	92507.89	1	1	1	1	0	0	0	1	1	1
344	2028	8	1657.07	92651.68	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j	
	Y	O	—	p	0	0	1	e	b	m	f	j	g	r	l
0	E	N	I	—	6	9	0	1	a	e	a	1	1	1	
b	A	T	M	i	3	3	2	6	r	1	1	1	4	7	8
s	R	H	I	i	o	o	o	o	1	1	1	n	n	n	
345	2028	9	1657.17	92791.71	1	1	1	1	0	0	0	1	1	1	
346	2028	10	1657.28	92930.42	1	1	1	1	0	0	0	1	1	1	
347	2028	11	1657.38	93067.90	1	1	1	1	0	0	0	1	1	1	
348	2028	12	1657.49	93204.23	1	1	1	1	0	0	0	1	1	1	
349	2029	1	1657.59	93341.73	1	1	1	1	0	0	0	1	1	1	
350	2029	2	1657.70	93471.68	1	1	1	1	0	0	0	1	1	1	
351	2029	3	1657.80	93600.81	1	1	1	1	0	0	0	1	1	1	
352	2029	4	1657.91	93733.57	1	1	1	1	0	0	0	1	1	1	
353	2029	5	1658.01	93865.67	1	1	1	1	0	0	0	1	1	1	
354	2029	6	1658.12	93997.19	1	1	1	1	0	0	0	1	1	1	
355	2029	7	1658.23	94128.22	1	1	1	1	0	0	0	1	1	1	
356	2029	8	1658.34	94261.01	1	1	1	1	0	0	0	1	1	1	
357	2029	9	1658.45	94391.39	1	1	1	1	0	0	0	1	1	1	
358	2029	10	1658.55	94521.58	1	1	1	1	0	0	0	1	1	1	
359	2029	11	1658.67	94651.70	1	1	1	1	0	0	0	1	1	1	
360	2029	12	1658.78	94781.85	1	1	1	1	0	0	0	1	1	1	
361	2030	1	1658.89	94914.27	1	1	1	1	0	0	0	1	1	1	
362	2030	2	1659.00	95040.50	1	1	1	1	0	0	0	1	1	1	
363	2030	3	1659.11	95167.05	1	1	1	1	0	0	0	1	1	1	
364	2030	4	1659.22	95298.33	1	1	1	1	0	0	0	1	1	1	
365	2030	5	1659.33	95430.14	1	1	1	1	0	0	0	1	1	1	
366	2030	6	1659.45	95562.59	1	1	1	1	0	0	0	1	1	1	
367	2030	7	1659.56	95695.78	1	1	1	1	0	0	0	1	1	1	
368	2030	8	1659.68	95831.94	1	1	1	1	0	0	0	1	1	1	
369	2030	9	1659.80	95966.61	1	1	1	1	0	0	0	1	1	1	
370	2030	10	1659.92	96101.92	1	1	1	1	0	0	0	1	1	1	
371	2030	11	1660.04	96237.80	1	1	1	1	0	0	0	1	1	1	
372	2030	12	1660.16	96374.20	1	1	1	1	0	0	0	1	1	1	
373	2031	1	1660.28	96513.29	1	1	1	1	0	0	0	1	1	1	
374	2031	2	1660.40	96646.02	1	1	1	1	0	0	0	1	1	1	
375	2031	3	1660.52	96779.05	1	1	1	1	0	0	0	1	1	1	
376	2031	4	1660.65	96916.83	1	1	1	1	0	0	0	1	1	1	
377	2031	5	1660.77	97054.81	1	1	1	1	0	0	0	1	1	1	
378	2031	6	1660.90	97192.91	1	1	1	1	0	0	0	1	1	1	
379	2031	7	1661.03	97331.09	1	1	1	1	0	0	0	1	1	1	
380	2031	8	1661.16	97471.60	1	1	1	1	0	0	0	1	1	1	
381	2031	9	1661.29	97610.01	1	1	1	1	0	0	0	1	1	1	
382	2031	10	1661.42	97748.67	1	1	1	1	0	0	0	1	1	1	
383	2031	11	1661.56	97887.67	1	1	1	1	0	0	0	1	1	1	
384	2031	12	1661.69	98027.09	1	1	1	1	0	0	0	1	1	1	
385	2032	1	1661.83	98169.33	1	1	1	1	0	0	0	1	1	1	
386	2032	2	1661.96	98307.58	1	1	1	1	0	0	0	1	1	1	
387	2032	3	1662.09	98446.50	1	1	1	1	0	0	0	1	1	1	

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j
		O	I	d	0	0	1	1	e	m	f	u	a	u
	Y	N	—	p	6	9	0	1	b	a	e	g	r	l
Obs	EAR	TH	MI	—	o	o	o	o	o	1	1	1	o	o
	R	H	I	i	n	n	n	n	n	1	1	1	n	n
388	2032	4	1662.22	98588.51	1	1	1	1	0	0	0	1	1	1
389	2032	5	1662.35	98731.41	1	1	1	1	0	0	0	1	1	1
390	2032	6	1662.48	98875.25	1	1	1	1	0	0	0	1	1	1
391	2032	7	1662.61	99020.14	1	1	1	1	0	0	0	1	1	1
392	2032	8	1662.73	99168.48	1	1	1	1	0	0	0	1	1	1
393	2032	9	1662.86	99315.40	1	1	1	1	0	0	0	1	1	1
394	2032	10	1662.98	99463.20	1	1	1	1	0	0	0	1	1	1
395	2032	11	1663.10	99611.78	1	1	1	1	0	0	0	1	1	1
396	2032	12	1663.22	99761.05	1	1	1	1	0	0	0	1	1	1
397	2033	1	1663.34	99913.40	1	1	1	1	0	0	0	1	1	1
398	2033	2	1663.45	100058.87	1	1	1	1	0	0	0	1	1	1
399	2033	3	1663.57	100204.75	1	1	1	1	0	0	0	1	1	1
400	2033	4	1663.68	100355.90	1	1	1	1	0	0	0	1	1	1
401	2033	5	1663.80	100507.31	1	1	1	1	0	0	0	1	1	1
402	2033	6	1663.91	100658.89	1	1	1	1	0	0	0	1	1	1
403	2033	7	1664.03	100810.54	1	1	1	1	0	0	0	1	1	1
404	2033	8	1664.13	100964.73	1	1	1	1	0	0	0	1	1	1
405	2033	9	1664.25	101116.52	1	1	1	1	0	0	0	1	1	1
406	2033	10	1664.36	101268.44	1	1	1	1	0	0	0	1	1	1
407	2033	11	1664.46	101420.53	1	1	1	1	0	0	0	1	1	1
408	2033	12	1664.57	101572.82	1	1	1	1	0	0	0	1	1	1
409	2034	1	1664.68	101727.85	1	1	1	1	0	0	0	1	1	1
410	2034	2	1664.79	101875.65	1	1	1	1	0	0	0	1	1	1
411	2034	3	1664.89	102023.77	1	1	1	1	0	0	0	1	1	1
412	2034	4	1665.00	102177.25	1	1	1	1	0	0	0	1	1	1
413	2034	5	1665.11	102331.13	1	1	1	1	0	0	0	1	1	1
414	2034	6	1665.21	102485.46	1	1	1	1	0	0	0	1	1	1
415	2034	7	1665.31	102640.26	1	1	1	1	0	0	0	1	1	1
416	2034	8	1665.42	102798.05	1	1	1	1	0	0	0	1	1	1
417	2034	9	1665.53	102953.62	1	1	1	1	0	0	0	1	1	1
418	2034	10	1665.63	103109.40	1	1	1	1	0	0	0	1	1	1
419	2034	11	1665.73	103265.25	1	1	1	1	0	0	0	1	1	1
420	2034	12	1665.83	103421.08	1	1	1	1	0	0	0	1	1	1
421	2035	1	1665.93	103579.29	1	1	1	1	0	0	0	1	1	1
422	2035	2	1666.03	103729.59	1	1	1	1	0	0	0	1	1	1
423	2035	3	1666.12	103879.52	1	1	1	1	0	0	0	1	1	1
424	2035	4	1666.22	104034.03	1	1	1	1	0	0	0	1	1	1
425	2035	5	1666.31	104187.90	1	1	1	1	0	0	0	1	1	1
426	2035	6	1666.39	104341.03	1	1	1	1	0	0	0	1	1	1
427	2035	7	1666.48	104493.29	1	1	1	1	0	0	0	1	1	1
428	2035	8	1666.57	104647.13	1	1	1	1	0	0	0	1	1	1
429	2035	9	1666.65	104797.66	1	1	1	1	0	0	0	1	1	1
430	2035	10	1666.72	104947.42	1	1	1	1	0	0	0	1	1	1

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
O	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
b	A	T	M	m	o	o	o	o	1	1	1	o	o	o
s	R	H	I	i	n	n	n	n	1	1	1	n	n	n
431	2035	11	1666.80	105096.50	1	1	1	1	0	0	0	1	1	1
432	2035	12	1666.87	105244.95	1	1	1	1	0	0	0	1	1	1
433	2036	1	1666.94	105395.29	1	1	1	1	0	0	0	1	1	1
434	2036	2	1667.01	105540.30	1	1	1	1	0	0	0	1	1	1
435	2036	3	1667.07	105684.93	1	1	1	1	0	0	0	1	1	1
436	2036	4	1667.13	105831.63	1	1	1	1	0	0	0	1	1	1
437	2036	5	1667.19	105978.07	1	1	1	1	0	0	0	1	1	1
438	2036	6	1667.25	106124.33	1	1	1	1	0	0	0	1	1	1
439	2036	7	1667.30	106270.46	1	1	1	1	0	0	0	1	1	1
440	2036	8	1667.36	106418.92	1	1	1	1	0	0	0	1	1	1
441	2036	9	1667.41	106564.96	1	1	1	1	0	0	0	1	1	1
442	2036	10	1667.46	106711.01	1	1	1	1	0	0	0	1	1	1
443	2036	11	1667.50	106857.12	1	1	1	1	0	0	0	1	1	1
444	2036	12	1667.55	107003.32	1	1	1	1	0	0	0	1	1	1
445	2037	1	1667.59	107152.05	1	1	1	1	0	0	0	1	1	1
446	2037	2	1667.63	107293.74	1	1	1	1	0	0	0	1	1	1
447	2037	3	1667.66	107435.63	1	1	1	1	0	0	0	1	1	1
448	2037	4	1667.69	107582.57	1	1	1	1	0	0	0	1	1	1
449	2037	5	1667.73	107729.80	1	1	1	1	0	0	0	1	1	1
450	2037	6	1667.75	107877.35	1	1	1	1	0	0	0	1	1	1
451	2037	7	1667.78	108025.26	1	1	1	1	0	0	0	1	1	1
452	2037	8	1667.80	108175.97	1	1	1	1	0	0	0	1	1	1
453	2037	9	1667.82	108324.59	1	1	1	1	0	0	0	1	1	1
454	2037	10	1667.84	108473.54	1	1	1	1	0	0	0	1	1	1
455	2037	11	1667.85	108622.77	1	1	1	1	0	0	0	1	1	1
456	2037	12	1667.86	108772.26	1	1	1	1	0	0	0	1	1	1
457	2038	1	1667.87	108924.45	1	1	1	1	0	0	0	1	1	1
458	2038	2	1667.88	109069.47	1	1	1	1	0	0	0	1	1	1
459	2038	3	1667.89	109214.66	1	1	1	1	0	0	0	1	1	1
460	2038	4	1667.89	109364.93	1	1	1	1	0	0	0	1	1	1
461	2038	5	1667.90	109515.33	1	1	1	1	0	0	0	1	1	1
462	2038	6	1667.90	109665.83	1	1	1	1	0	0	0	1	1	1
463	2038	7	1667.90	109816.41	1	1	1	1	0	0	0	1	1	1
464	2038	8	1667.91	109969.54	1	1	1	1	0	0	0	1	1	1
465	2038	9	1667.90	110120.31	1	1	1	1	0	0	0	1	1	1
466	2038	10	1667.90	110271.23	1	1	1	1	0	0	0	1	1	1
467	2038	11	1667.90	110422.33	1	1	1	1	0	0	0	1	1	1
468	2038	12	1667.90	110573.65	1	1	1	1	0	0	0	1	1	1
469	2039	1	1667.89	110727.71	1	1	1	1	0	0	0	1	1	1
470	2039	2	1667.89	110874.59	1	1	1	1	0	0	0	1	1	1
471	2039	3	1667.88	111021.77	1	1	1	1	0	0	0	1	1	1
472	2039	4	1667.88	111174.29	1	1	1	1	0	0	0	1	1	1
473	2039	5	1667.86	111327.20	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j
	Y	O	—	d	0	0	1	e	b	m	f	u	r	u
Obs	EAR	MONTH	INTERIM	price	06	09	02	enbmfj	1a	1r	1f	1u	1r	1u
474	2039	6	1667.85	111480.54	1	1	1	1	0	0	0	1	1	1
475	2039	7	1667.84	111634.33	1	1	1	1	0	0	0	1	1	1
476	2039	8	1667.83	111791.08	1	1	1	1	0	0	0	1	1	1
477	2039	9	1667.81	111945.62	1	1	1	1	0	0	0	1	1	1
478	2039	10	1667.80	112100.36	1	1	1	1	0	0	0	1	1	1
479	2039	11	1667.78	112255.21	1	1	1	1	0	0	0	1	1	1
480	2039	12	1667.76	112410.05	1	1	1	1	0	0	0	1	1	1
481	2040	1	1667.74	112567.31	1	1	1	1	0	0	0	1	1	1
482	2040	2	1667.72	112719.27	1	1	1	1	0	0	0	1	1	1
483	2040	3	1667.70	112870.91	1	1	1	1	0	0	0	1	1	1
484	2040	4	1667.67	113024.64	1	1	1	1	0	0	0	1	1	1
485	2040	5	1667.65	113177.82	1	1	1	1	0	0	0	1	1	1
486	2040	6	1667.62	113330.34	1	1	1	1	0	0	0	1	1	1
487	2040	7	1667.60	113482.09	1	1	1	1	0	0	0	1	1	1
488	2040	8	1667.57	113635.56	1	1	1	1	0	0	0	1	1	1
489	2040	9	1667.54	113785.89	1	1	1	1	0	0	0	1	1	1
490	2040	10	1667.51	113935.66	1	1	1	1	0	0	0	1	1	1
491	2040	11	1667.49	114085.01	1	1	1	1	0	0	0	1	1	1
492	2040	12	1667.46	114234.03	1	1	1	1	0	0	0	1	1	1
493	2041	1	1667.43	114385.28	1	1	1	1	0	0	0	1	1	1
494	2041	2	1667.40	114529.12	1	1	1	1	0	0	0	1	1	1
495	2041	3	1667.36	114672.97	1	1	1	1	0	0	0	1	1	1
496	2041	4	1667.33	114821.82	1	1	1	1	0	0	0	1	1	1
497	2041	5	1667.30	114970.90	1	1	1	1	0	0	0	1	1	1
498	2041	6	1667.27	115120.32	1	1	1	1	0	0	0	1	1	1
499	2041	7	1667.24	115270.20	1	1	1	1	0	0	0	1	1	1
500	2041	8	1667.20	115423.02	1	1	1	1	0	0	0	1	1	1
501	2041	9	1667.17	115573.80	1	1	1	1	0	0	0	1	1	1
502	2041	10	1667.13	115724.92	1	1	1	1	0	0	0	1	1	1
503	2041	11	1667.10	115876.33	1	1	1	1	0	0	0	1	1	1
504	2041	12	1667.06	116027.94	1	1	1	1	0	0	0	1	1	1
505	2042	1	1667.02	116182.19	1	1	1	1	0	0	0	1	1	1
506	2042	2	1666.98	116329.04	1	1	1	1	0	0	0	1	1	1
507	2042	3	1666.95	116475.90	1	1	1	1	0	0	0	1	1	1
508	2042	4	1666.91	116627.68	1	1	1	1	0	0	0	1	1	1
509	2042	5	1666.86	116779.33	1	1	1	1	0	0	0	1	1	1
510	2042	6	1666.82	116930.78	1	1	1	1	0	0	0	1	1	1
511	2042	7	1666.78	117081.97	1	1	1	1	0	0	0	1	1	1
512	2042	8	1666.74	117235.35	1	1	1	1	0	0	0	1	1	1
513	2042	9	1666.69	117386.04	1	1	1	1	0	0	0	1	1	1
514	2042	10	1666.64	117536.56	1	1	1	1	0	0	0	1	1	1
515	2042	11	1666.60	117686.95	1	1	1	1	0	0	0	1	1	1
516	2042	12	1666.55	117837.28	1	1	1	1	0	0	0	1	1	1

				g				f				a	m	j
				d	d	d	d	e				u	a	u
		M	N	p	0	0	1	b	m	f	j	g	r	l
	Y	O	—	—	6	9	0	1	a	e	a	1	1	1
Obs	EAR	MONTH	INTERIM	income	on	on	on	on	1	1	1	on	on	on
517	2043	1	1666.50	117990.06	1	1	1	1	0	0	0	1	1	1
518	2043	2	1666.45	118135.48	1	1	1	1	0	0	0	1	1	1
519	2043	3	1666.40	118280.99	1	1	1	1	0	0	0	1	1	1
520	2043	4	1666.35	118431.56	1	1	1	1	0	0	0	1	1	1
521	2043	5	1666.30	118582.34	1	1	1	1	0	0	0	1	1	1
522	2043	6	1666.24	118733.36	1	1	1	1	0	0	0	1	1	1
523	2043	7	1666.19	118884.67	1	1	1	1	0	0	0	1	1	1
524	2043	8	1666.14	119038.77	1	1	1	1	0	0	0	1	1	1
525	2043	9	1666.08	119190.64	1	1	1	1	0	0	0	1	1	1
526	2043	10	1666.02	119342.71	1	1	1	1	0	0	0	1	1	1
527	2043	11	1665.97	119494.92	1	1	1	1	0	0	0	1	1	1
528	2043	12	1665.91	119647.23	1	1	1	1	0	0	0	1	1	1
529	2044	1	1665.85	119802.08	1	1	1	1	0	0	0	1	1	1
530	2044	2	1665.79	119951.92	1	1	1	1	0	0	0	1	1	1
531	2044	3	1665.74	120101.70	1	1	1	1	0	0	0	1	1	1
532	2044	4	1665.67	120253.87	1	1	1	1	0	0	0	1	1	1
533	2044	5	1665.61	120405.87	1	1	1	1	0	0	0	1	1	1
534	2044	6	1665.55	120557.66	1	1	1	1	0	0	0	1	1	1
535	2044	7	1665.49	120709.18	1	1	1	1	0	0	0	1	1	1
536	2044	8	1665.42	120862.92	1	1	1	1	0	0	0	1	1	1
537	2044	9	1665.36	121013.98	1	1	1	1	0	0	0	1	1	1
538	2044	10	1665.29	121164.90	1	1	1	1	0	0	0	1	1	1
539	2044	11	1665.23	121315.75	1	1	1	1	0	0	0	1	1	1
540	2044	12	1665.16	121466.61	1	1	1	1	0	0	0	1	1	1
541	2045	1	1665.10	121620.00	1	1	1	1	0	0	0	1	1	1
542	2045	2	1665.03	121766.10	1	1	1	1	0	0	0	1	1	1
543	2045	3	1664.96	121912.38	1	1	1	1	0	0	0	1	1	1
544	2045	4	1664.89	122063.87	1	1	1	1	0	0	0	1	1	1
545	2045	5	1664.83	122215.69	1	1	1	1	0	0	0	1	1	1
546	2045	6	1664.75	122367.89	1	1	1	1	0	0	0	1	1	1
547	2045	7	1664.68	122520.55	1	1	1	1	0	0	0	1	1	1
548	2045	8	1664.61	122676.19	1	1	1	1	0	0	0	1	1	1
549	2045	9	1664.53	122829.75	1	1	1	1	0	0	0	1	1	1
550	2045	10	1664.46	122983.69	1	1	1	1	0	0	0	1	1	1
551	2045	11	1664.38	123137.97	1	1	1	1	0	0	0	1	1	1
552	2045	12	1664.31	123292.55	1	1	1	1	0	0	0	1	1	1
553	2046	1	1664.23	123449.92	1	1	1	1	0	0	0	1	1	1
554	2046	2	1664.15	123599.87	1	1	1	1	0	0	0	1	1	1
555	2046	3	1664.08	123749.98	1	1	1	1	0	0	0	1	1	1
556	2046	4	1664.00	123905.30	1	1	1	1	0	0	0	1	1	1
557	2046	5	1663.92	124060.70	1	1	1	1	0	0	0	1	1	1
558	2046	6	1663.84	124216.13	1	1	1	1	0	0	0	1	1	1
559	2046	7	1663.76	124371.56	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j
		O	I	d	0	0	1	1	e	m	f	u	a	u
	Y	N	I	p	6	9	0	1	b	m	f	g	r	l
Obs	EAR	TH	MI	im	on	on	on	on	on	on	on	on	on	on
	R	H	I	i	n	n	n	n	n	n	n	n	n	n
560	2046	8	1663.67	124529.52	1	1	1	1	0	0	0	1	1	1
561	2046	9	1663.59	124684.95	1	1	1	1	0	0	0	1	1	1
562	2046	10	1663.51	124840.41	1	1	1	1	0	0	0	1	1	1
563	2046	11	1663.43	124995.92	1	1	1	1	0	0	0	1	1	1
564	2046	12	1663.34	125151.53	1	1	1	1	0	0	0	1	1	1
565	2047	1	1663.26	125309.80	1	1	1	1	0	0	0	1	1	1
566	2047	2	1663.18	125460.55	1	1	1	1	0	0	0	1	1	1
567	2047	3	1663.10	125611.46	1	1	1	1	0	0	0	1	1	1
568	2047	4	1663.02	125767.67	1	1	1	1	0	0	0	1	1	1
569	2047	5	1662.93	125924.10	1	1	1	1	0	0	0	1	1	1
570	2047	6	1662.85	126080.77	1	1	1	1	0	0	0	1	1	1
571	2047	7	1662.76	126237.72	1	1	1	1	0	0	0	1	1	1
572	2047	8	1662.68	126397.55	1	1	1	1	0	0	0	1	1	1
573	2047	9	1662.59	126555.12	1	1	1	1	0	0	0	1	1	1
574	2047	10	1662.51	126713.05	1	1	1	1	0	0	0	1	1	1
575	2047	11	1662.42	126871.35	1	1	1	1	0	0	0	1	1	1
576	2047	12	1662.34	127030.06	1	1	1	1	0	0	0	1	1	1
577	2048	1	1662.25	127191.81	1	1	1	1	0	0	0	1	1	1
578	2048	2	1662.17	127348.78	1	1	1	1	0	0	0	1	1	1
579	2048	3	1662.09	127506.24	1	1	1	1	0	0	0	1	1	1
580	2048	4	1662.01	127666.81	1	1	1	1	0	0	0	1	1	1
581	2048	5	1661.92	127827.93	1	1	1	1	0	0	0	1	1	1
582	2048	6	1661.84	127989.61	1	1	1	1	0	0	0	1	1	1
583	2048	7	1661.76	128151.88	1	1	1	1	0	0	0	1	1	1
584	2048	8	1661.67	128317.44	1	1	1	1	0	0	0	1	1	1
585	2048	9	1661.59	128480.97	1	1	1	1	0	0	0	1	1	1
586	2048	10	1661.51	128645.17	1	1	1	1	0	0	0	1	1	1
587	2048	11	1661.43	128810.07	1	1	1	1	0	0	0	1	1	1
588	2048	12	1661.34	128975.69	1	1	1	1	0	0	0	1	1	1
589	2049	1	1661.27	129104.73	1	1	1	1	0	0	0	1	1	1
590	2049	2	1661.19	129268.10	1	1	1	1	0	0	0	1	1	1
591	2049	3	1661.11	129432.28	1	1	1	1	0	0	0	1	1	1
592	2049	4	1661.02	129597.32	1	1	1	1	0	0	0	1	1	1
593	2049	5	1660.94	129763.24	1	1	1	1	0	0	0	1	1	1
594	2049	6	1660.86	129930.04	1	1	1	1	0	0	0	1	1	1
595	2049	7	1660.78	130097.76	1	1	1	1	0	0	0	1	1	1
596	2049	8	1660.70	130269.20	1	1	1	1	0	0	0	1	1	1
597	2049	9	1660.61	130438.85	1	1	1	1	0	0	0	1	1	1
598	2049	10	1660.53	130609.49	1	1	1	1	0	0	0	1	1	1
599	2049	11	1660.45	130781.16	1	1	1	1	0	0	0	1	1	1
600	2049	12	1660.37	130953.87	1	1	1	1	0	0	0	1	1	1
601	2050	1	1660.32	131049.11	1	1	1	1	0	0	0	1	1	1
602	2050	2	1660.24	131219.05	1	1	1	1	0	0	0	1	1	1

COMMERCIAL CUSTOMERS

EXOGENOUS VARIABLES

		M	N	g	d	d	d	d	f			a	m	j
	Y	O	—	d	0	0	1	e	b	m	f	u	a	u
Obs	E	N	I	p	6	9	0	1	a	r	j	g	r	l
	A	T	M	—	3	3	2	6	1	1	1	4	7	8
	R	H	I	i	o	o	o	o	1	1	1	n	n	n
603	2050	3	1660.15	131390.13	1	1	1	1	0	0	0	1	1	1
604	2050	4	1660.07	131559.75	1	1	1	1	0	0	0	1	1	1
605	2050	5	1659.98	131730.58	1	1	1	1	0	0	0	1	1	1
606	2050	6	1659.91	131902.64	1	1	1	1	0	0	0	1	1	1
607	2050	7	1659.83	132075.95	1	1	1	1	0	0	0	1	1	1
608	2050	8	1659.75	132253.41	1	1	1	1	0	0	0	1	1	1
609	2050	9	1659.66	132429.33	1	1	1	1	0	0	0	1	1	1
610	2050	10	1659.59	132606.57	1	1	1	1	0	0	0	1	1	1
611	2050	11	1659.51	132785.18	1	1	1	1	0	0	0	1	1	1
612	2050	12	1659.43	132965.17	1	1	1	1	0	0	0	1	1	1
613	2051	1	1659.39	133025.50	1	1	1	1	0	0	0	1	1	1
614	2051	2	1659.31	133202.19	1	1	1	1	0	0	0	1	1	1
615	2051	3	1659.22	133380.35	1	1	1	1	0	0	0	1	1	1
616	2051	4	1659.14	133554.66	1	1	1	1	0	0	0	1	1	1
617	2051	5	1659.05	133730.53	1	1	1	1	0	0	0	1	1	1
618	2051	6	1658.98	133907.96	1	1	1	1	0	0	0	1	1	1
619	2051	7	1658.91	134087.00	1	1	1	1	0	0	0	1	1	1
620	2051	8	1658.82	134270.64	1	1	1	1	0	0	0	1	1	1
621	2051	9	1658.74	134452.98	1	1	1	1	0	0	0	1	1	1
622	2051	10	1658.67	134637.00	1	1	1	1	0	0	0	1	1	1
623	2051	11	1658.59	134822.73	1	1	1	1	0	0	0	1	1	1
624	2051	12	1658.52	135010.19	1	1	1	1	0	0	0	1	1	1
625	2052	1	1658.49	135034.47	1	1	1	1	0	0	0	1	1	1
626	2052	2	1658.41	135218.08	1	1	1	1	0	0	0	1	1	1
627	2052	3	1658.32	135403.53	1	1	1	1	0	0	0	1	1	1
628	2052	4	1658.24	135582.63	1	1	1	1	0	0	0	1	1	1
629	2052	5	1658.14	135763.65	1	1	1	1	0	0	0	1	1	1
630	2052	6	1658.08	135946.60	1	1	1	1	0	0	0	1	1	1
631	2052	7	1658.01	136131.50	1	1	1	1	0	0	0	1	1	1
632	2052	8	1657.93	136321.48	1	1	1	1	0	0	0	1	1	1
633	2052	9	1657.84	136510.41	1	1	1	1	0	0	0	1	1	1
634	2052	10	1657.77	136701.37	1	1	1	1	0	0	0	1	1	1
635	2052	11	1657.70	136894.41	1	1	1	1	0	0	0	1	1	1
636	2052	12	1657.63	137089.53	1	1	1	1	0	0	0	1	1	1
637	2053	1	1657.62	137076.60	1	1	1	1	0	0	0	1	1	1
638	2053	2	1657.54	137267.32	1	1	1	1	0	0	0	1	1	1
639	2053	3	1657.44	137460.23	1	1	1	1	0	0	0	1	1	1
640	2053	4	1657.36	137644.24	1	1	1	1	0	0	0	1	1	1
641	2053	5	1657.27	137830.54	1	1	1	1	0	0	0	1	1	1
642	2053	6	1657.21	138019.14	1	1	1	1	0	0	0	1	1	1
643	2053	7	1657.14	138210.05	1	1	1	1	0	0	0	1	1	1
644	2053	8	1657.06	138406.52	1	1	1	1	0	0	0	1	1	1
645	2053	9	1656.97	138602.20	1	1	1	1	0	0	0	1	1	1

O b s	Y E A R	M O N T H	N I M I	g	d	d	d	f				a	m	j
				d	0	0	1	e	m	f	j	u	a	u
				p	0	0	1	b	m	f	j	g	r	l
				i	6	9	0	1	a	e	a	1	1	1
				m	3	3	2	6	r	b	n	4	7	8
				i	o	o	o	o	1	1	1	o	o	o
					n	n	n	n	1	1	1	n	n	n
646	2053	10	1656.90	138800.29	1	1	1	1	0	0	0	1	1	1
647	2053	11	1656.83	139000.82	1	1	1	1	0	0	0	1	1	1
648	2053	12	1656.76	139203.80	1	1	1	1	0	0	0	1	1	1
649	2054	1	1656.78	139152.46	1	1	1	1	0	0	0	1	1	1
650	2054	2	1656.69	139350.47	1	1	1	1	0	0	0	1	1	1
651	2054	3	1656.59	139551.07	1	1	1	1	0	0	0	1	1	1
652	2054	4	1656.51	139740.09	1	1	1	1	0	0	0	1	1	1
653	2054	5	1656.42	139931.80	1	1	1	1	0	0	0	1	1	1
654	2054	6	1656.36	140126.18	1	1	1	1	0	0	0	1	1	1
655	2054	7	1656.29	140323.25	1	1	1	1	0	0	0	1	1	1
656	2054	8	1656.21	140526.37	1	1	1	1	0	0	0	1	1	1
657	2054	9	1656.13	140728.98	1	1	1	1	0	0	0	1	1	1
658	2054	10	1656.06	140934.37	1	1	1	1	0	0	0	1	1	1
659	2054	11	1655.99	141142.59	1	1	1	1	0	0	0	1	1	1
660	2054	12	1655.93	141353.63	1	1	1	1	0	0	0	1	1	1

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model cc_imi
 Dependent Variable cc_imi
 Label Commercial Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.7434E8	70394993	182.52	<.0001
Error	204	78679996	385686.3		
Corrected Total	215	8.5302E8			

Root MSE 621.03644 R-Square 0.90776
 Dependent Mean 50700.5231 Adj R-Sq 0.90279
 Coeff Var 1.22491

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	23178.53	4659.663	4.97	<.0001	Intercept
lgdpn_imi	1	6701.299	1254.872	5.34	<.0001	Service Area Gross Regional Product Per Capita
d063on	1	2623.237	129.9199	20.19	<.0001	Binary Variable-July 2006 On
d093on	1	1341.865	262.8377	5.11	<.0001	Binary Variable-July 2009 On
d102on	1	-431.373	265.7881	-1.62	0.1061	Binary Variable-April 2010 On
jan11	1	356.2333	627.3528	0.57	0.5708	Binary Variable-January 2011
feb11	1	-1356.96	627.3682	-2.16	0.0317	Binary Variable-February 2011
mar11	1	1897.850	627.3974	3.02	0.0028	Binary Variable-March 2011
aug14on	1	171.3793	180.3154	0.95	0.3430	Binary Variable-August 2014 On

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
feb16on	1	209.7798	228.1996	0.92	0.3590	Binary Variable-February 2016 On
mar17on	1	245.7699	235.4889	1.04	0.2979	Binary Variable-March 2017 On
jul18on	1	232.0251	299.0025	0.78	0.4386	Binary Variable-July 2018 On

Durbin-Watson 0.388048
 Number of Observations 216
 First-Order Autocorrelation 0.792736

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

time	Residual Values	Sum
2001.000000	*****	-1439.839
2001.0833333	*****	-1406.643
2001.1666667	*****	-1142.229
2001.2500000	*****	-1151.027
2001.3333333	*****	-1162.633
2001.4166667	*****	-948.419
2001.5000000	*****	-970.886
2001.5833333	*****	-828.389
2001.6666667	*****	-767.202
2001.7500000	*****	-695.381
2001.8333333	*****	-754.989
2001.9166667	*****	-705.167
2002.0000000	*****	-600.417
2002.0833333	*****	-718.965
2002.1666667	*****	-847.260
2002.2500000	*****	-733.555
2002.3333333	*****	-603.000
2002.4166667	*****	-602.719
2002.5000000	*****	-597.930
2002.5833333	*****	-582.703
2002.6666667	*****	-445.196
2002.7500000	*****	-472.020
2002.8333333	*****	-399.297
2002.9166667	*****	-431.170
2003.0000000	*****	-308.084
2003.0833333	*****	-350.891
2003.1666667	*****	-490.708
2003.2500000	*****	-565.241
2003.3333333	*****	-376.956
2003.4166667	*****	-354.018
2003.5000000	*****	-321.492
2003.5833333	****	-204.646
2003.6666667	****	-202.870
2003.7500000	****	-185.262
2003.8333333	**	-110.708
2003.9166667	*	-39.061
2004.0000000	*	56.633
2004.0833333	***	-138.996
2004.1666667	*	-53.201
2004.2500000		-8.921
2004.3333333	**	-76.902
2004.4166667		-4.997
2004.5000000	**	112.896
2004.5833333	*	45.701
2004.6666667	***	132.934
2004.7500000	***	147.204
2004.8333333	****	209.082
2004.9166667	*****	441.144

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2005.000000	*****	312.030
2005.0833333	*****	579.047
2005.1666667	*****	1052.028
2005.2500000	*****	841.636
2005.3333333	*****	929.324
2005.4166667	*****	1008.654
2005.5000000	*****	1026.241
2005.5833333	*****	1401.933
2005.6666667	*****	1255.329
2005.7500000	*****	1407.736
2005.8333333	*****	1179.589
2005.9166667	*****	1467.257
2006.0000000	*****	1738.876
2006.0833333	*****	1452.928
2006.1666667	*****	1540.985
2006.2500000	*****	1434.880
2006.3333333	*****	1502.560
2006.4166667	*****	1523.360
2006.5000000	*****	-1115.558
2006.5833333	*****	-1025.789
2006.6666667	*****	-1026.310
2006.7500000	*****	-867.450
2006.8333333	*****	-938.374
2006.9166667	*****	-827.186
2007.0000000	*****	-732.118
2007.0833333	*****	-889.024
2007.1666667	*****	-574.267
2007.2500000	*****	-615.079
2007.3333333	*****	-604.447
2007.4166667	*****	-470.536
2007.5000000	*****	-433.399
2007.5833333	*****	-374.666
2007.6666667	*****	-447.361
2007.7500000	*****	-718.465
2007.8333333	*****	-237.055
2007.9166667	*****	-265.049
2008.0000000	*	-32.160
2008.0833333	***	-145.355
2008.1666667	**	-112.033
2008.2500000	*	39.437
2008.3333333	**	96.901
2008.4166667	****	202.505
2008.5000000	*****	360.538
2008.5833333	*****	541.775
2008.6666667	*****	641.896
2008.7500000	*****	781.314
2008.8333333	*****	832.972
2008.9166667	*****	285.665
2009.0000000	*****	1573.550
2009.0833333	*****	1175.872
2009.1666667	*****	1704.922

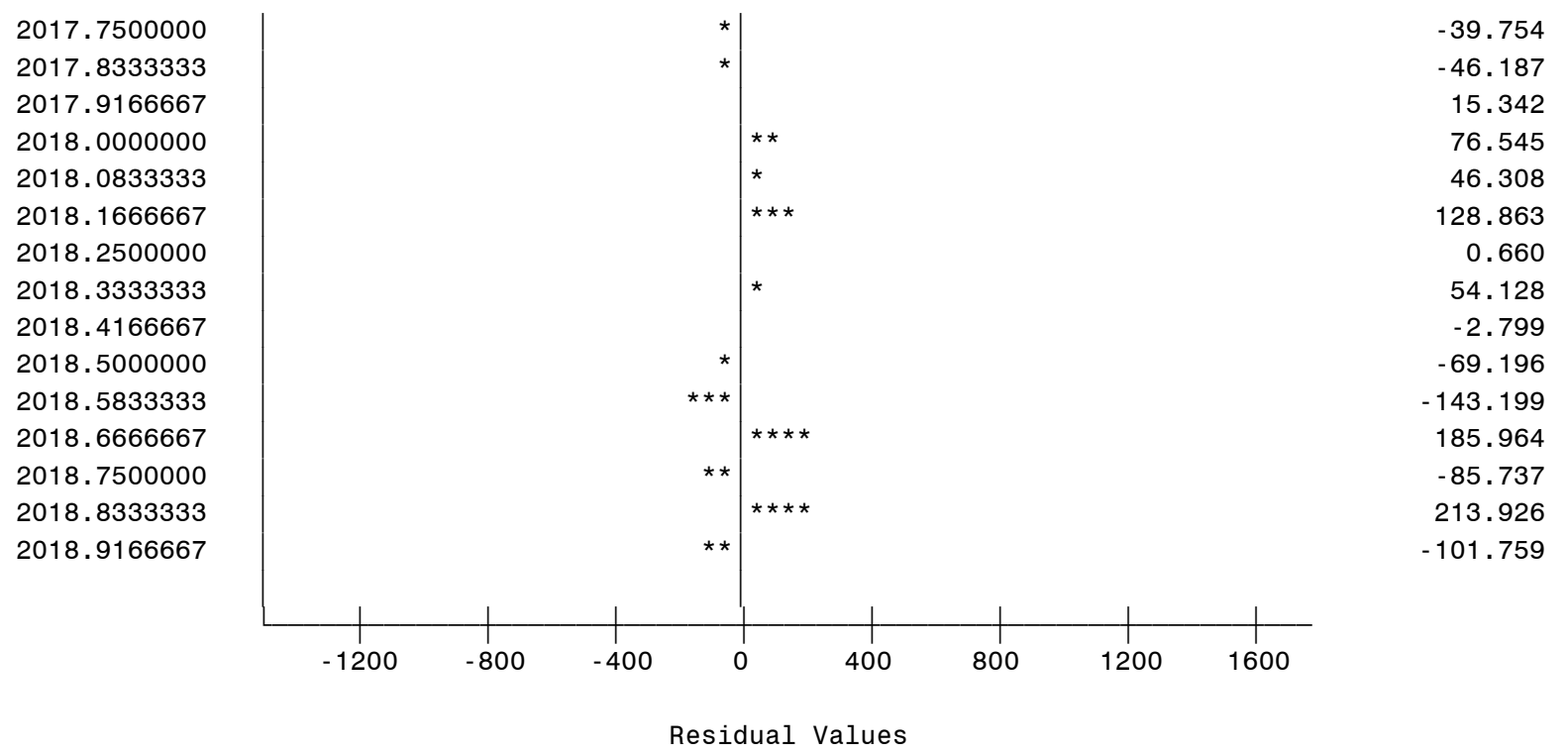
INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2009.250000		*****	1395.456
2009.333333		*****	1346.262
2009.416667		*****	1472.616
2009.500000		****	180.766
2009.583333		*	41.028
2009.666667		**	84.102
2009.750000		****	175.897
2009.833333		*	31.840
2009.916667	*****		-262.012
2010.000000		***	-139.160
2010.083333	*****		-1406.395
2010.166667		*****	1293.934
2010.250000		**	100.443
2010.333333		**	-84.142
2010.416667		*	-27.423
2010.500000		*	-57.427
2010.583333	*****		-248.238
2010.666667	*****		-253.110
2010.750000		**	-102.575
2010.833333		**	-92.480
2010.916667	*****		-910.353
2011.000000			0.000
2011.083333			0.000
2011.166667			0.000
2011.250000		**	-75.332
2011.333333		**	-119.532
2011.416667		*	-47.357
2011.500000	*****		-267.423
2011.583333		***	143.707
2011.666667		*	-70.906
2011.750000		*	-37.723
2011.833333		*	-55.319
2011.916667		***	-152.297
2012.000000		***	140.633
2012.083333			11.269
2012.166667			-17.198
2012.250000			19.458
2012.333333			8.785
2012.416667			-22.792
2012.500000		*	44.090
2012.583333			-21.551
2012.666667		**	99.422
2012.750000		****	193.712
2012.833333		**	86.153
2012.916667		*	72.593
2013.000000		*****	231.732
2013.083333		*	26.998
2013.166667	*****		-679.194
2013.250000		*****	824.734
2013.333333		**	80.866
2013.416667		**	100.085

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2013.500000	*****	279.260
2013.5833333	*****	340.164
2013.6666667	***	125.507
2013.7500000	*****	429.278
2013.8333333	*	59.760
2013.9166667	**	111.142
2014.0000000	***	136.436
2014.0833333	****	-179.162
2014.1666667		13.844
2014.2500000		20.183
2014.3333333	*	-37.419
2014.4166667	*	-47.735
2014.5000000	**	-93.569
2014.5833333		-17.396
2014.6666667	**	-106.414
2014.7500000	***	-169.378
2014.8333333		-22.517
2014.9166667		6.941
2015.0000000	***	-162.305
2015.0833333		22.811
2015.1666667	**	118.832
2015.2500000		2.422
2015.3333333	***	-148.495
2015.4166667	****	198.843
2015.5000000	***	151.199
2015.5833333	*	56.387
2015.6666667		-14.299
2015.7500000	**	112.109
2015.8333333	*	51.647
2015.9166667		-17.605
2016.0000000	*	-62.781
2016.0833333	**	98.040
2016.1666667	****	179.061
2016.2500000	**	-79.649
2016.3333333	*	-71.810
2016.4166667		19.646
2016.5000000	***	-147.206
2016.5833333	*	60.426
2016.6666667	*	-52.900
2016.7500000	*	-64.407
2016.8333333	*	-74.014
2016.9166667	*	33.317
2017.0000000	**	86.333
2017.0833333		13.164
2017.1666667	*	70.283
2017.2500000		9.757
2017.3333333	*	-51.612
2017.4166667	*	-67.796
2017.5000000	**	-79.740
2017.5833333	*	-62.711
2017.6666667	*	-51.286

INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS



INDIANA MICHIGAN POWER COMPANY - INDIANA
 COMMERCIAL CUSTOMERS
 ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2001	46668.33	.
2002	47288.83	1.3
2003	47841.5	1.2
2004	48312.25	1.0
2005	49275.25	2.0
2006	49973.83	1.4
2007	50542.83	1.1
2008	51035.33	1.0
2009	51405.25	0.7
2010	51515.08	0.2
2011	51713.83	0.4
2012	51783.58	0.1
2013	52015.33	0.4
2014	52040.42	0.0
2015	52291.58	0.5
2016	52574.67	0.5
2017	52975.5	0.8
2018	53356	0.7
2019	53593.98	0.4
2020	53609.72	0.0
2021	53742.51	0.2
2022	53896.02	0.3
2023	53996.01	0.2
2024	54108.42	0.2
2025	54206.26	0.2
2026	54299.39	0.2
2027	54401.82	0.2
2028	54520.43	0.2
2029	54632.57	0.2
2030	54738.31	0.2
2031	54845.65	0.2
2032	54954.77	0.2
2033	55068.68	0.2
2034	55184.08	0.2
2035	55299.04	0.2
2036	55409.17	0.2
2037	55517.19	0.2
2038	55626.72	0.2
2039	55737.04	0.2
2040	55847.73	0.2
2041	55954.45	0.2
2042	56060.61	0.2
2043	56165.56	0.2
2044	56270.31	0.2
2045	56373.62	0.2
2046	56477.66	0.2
2047	56581.56	0.2
2048	56686.44	0.2

INDIANA MICHIGAN POWER COMPANY - INDIANA
COMMERCIAL CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2049	56791.36	0.2
2050	56896.31	0.2
2051	57001.3	0.2
2052	57106.31	0.2
2053	57211.36	0.2
2054	57316.45	0.2

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.500000
ci_imi	Industrial Customers	4124.25

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
1	2000	1	4285
2	2000	2	4309
3	2000	3	4290
4	2000	4	4279
5	2000	5	4287
6	2000	6	4270
7	2000	7	4260
8	2000	8	4269
9	2000	9	4267
10	2000	10	4267
11	2000	11	4262
12	2000	12	4274
13	2001	1	4276
14	2001	2	4246
15	2001	3	4287
16	2001	4	4269
17	2001	5	4273
18	2001	6	4268
19	2001	7	4251
20	2001	8	4275
21	2001	9	4250
22	2001	10	4248
23	2001	11	4264
24	2001	12	4240
25	2002	1	4241
26	2002	2	4255
27	2002	3	4237
28	2002	4	4249
29	2002	5	4251
30	2002	6	4251
31	2002	7	4299
32	2002	8	4215
33	2002	9	4237
34	2002	10	4228
35	2002	11	4243
36	2002	12	4233
37	2003	1	4234
38	2003	2	4241
39	2003	3	4224
40	2003	4	4234
41	2003	5	4236
42	2003	6	4238
43	2003	7	4250
44	2003	8	4242
45	2003	9	4231
46	2003	10	4239
47	2003	11	4217
48	2003	12	4235
49	2004	1	4267

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
50	2004	2	4189
51	2004	3	4265
52	2004	4	4227
53	2004	5	4211
54	2004	6	4207
55	2004	7	4206
56	2004	8	4187
57	2004	9	4193
58	2004	10	4098
59	2004	11	4178
60	2004	12	4201
61	2005	1	4105
62	2005	2	4251
63	2005	3	4200
64	2005	4	4160
65	2005	5	4156
66	2005	6	4134
67	2005	7	4136
68	2005	8	4164
69	2005	9	4134
70	2005	10	4137
71	2005	11	4026
72	2005	12	4206
73	2006	1	4163
74	2006	2	4066
75	2006	3	4177
76	2006	4	4101
77	2006	5	4120
78	2006	6	4126
79	2006	7	4111
80	2006	8	4126
81	2006	9	4102
82	2006	10	4110
83	2006	11	4081
84	2006	12	4084
85	2007	1	4109
86	2007	2	4099
87	2007	3	4159
88	2007	4	4120
89	2007	5	4053
90	2007	6	4123
91	2007	7	4132
92	2007	8	4106
93	2007	9	4112
94	2007	10	4079
95	2007	11	4100
96	2007	12	4087
97	2008	1	4113
98	2008	2	4168

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
99	2008	3	4153
100	2008	4	4161
101	2008	5	4186
102	2008	6	4189
103	2008	7	4177
104	2008	8	4168
105	2008	9	4178
106	2008	10	4186
107	2008	11	4157
108	2008	12	4100
109	2009	1	4237
110	2009	2	4196
111	2009	3	4280
112	2009	4	4200
113	2009	5	4186
114	2009	6	4196
115	2009	7	4207
116	2009	8	4190
117	2009	9	4178
118	2009	10	4207
119	2009	11	4158
120	2009	12	4076
121	2010	1	4145
122	2010	2	3883
123	2010	3	4438
124	2010	4	4132
125	2010	5	4114
126	2010	6	4124
127	2010	7	4160
128	2010	8	4093
129	2010	9	4065
130	2010	10	4149
131	2010	11	4125
132	2010	12	3993
133	2011	1	4121
134	2011	2	3819
135	2011	3	4444
136	2011	4	4101
137	2011	5	4106
138	2011	6	4102
139	2011	7	4080
140	2011	8	4116
141	2011	9	4107
142	2011	10	4115
143	2011	11	4095
144	2011	12	4086
145	2012	1	4119
146	2012	2	4100
147	2012	3	4100

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
148	2012	4	4091
149	2012	5	4102
150	2012	6	4093
151	2012	7	4092
152	2012	8	4106
153	2012	9	4107
154	2012	10	4108
155	2012	11	4087
156	2012	12	4071
157	2013	1	4112
158	2013	2	4080
159	2013	3	4052
160	2013	4	4119
161	2013	5	4068
162	2013	6	4067
163	2013	7	4077
164	2013	8	4076
165	2013	9	4077
166	2013	10	4082
167	2013	11	4050
168	2013	12	4047
169	2014	1	4037
170	2014	2	4045
171	2014	3	4047
172	2014	4	4032
173	2014	5	4041
174	2014	6	4036
175	2014	7	4029
176	2014	8	4027
177	2014	9	4030
178	2014	10	4017
179	2014	11	4025
180	2014	12	4010
181	2015	1	4011
182	2015	2	4010
183	2015	3	4057
184	2015	4	4042
185	2015	5	3976
186	2015	6	4020
187	2015	7	4010
188	2015	8	3998
189	2015	9	4008
190	2015	10	4050
191	2015	11	4024
192	2015	12	3995
193	2016	1	3994
194	2016	2	4020
195	2016	3	4022
196	2016	4	4002

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
197	2016	5	3987
198	2016	6	3987
199	2016	7	3978
200	2016	8	4013
201	2016	9	3992
202	2016	10	3988
203	2016	11	3993
204	2016	12	3990
205	2017	1	3992
206	2017	2	3984
207	2017	3	4012
208	2017	4	3986
209	2017	5	3999
210	2017	6	3998
211	2017	7	3984
212	2017	8	3986
213	2017	9	3979
214	2017	10	3987
215	2017	11	3985
216	2017	12	3972
217	2018	1	3985
218	2018	2	3976
219	2018	3	3964
220	2018	4	3966
221	2018	5	3969
222	2018	6	3963
223	2018	7	4005
224	2018	8	4003
225	2018	9	3991
226	2018	10	3994
227	2018	11	3988
228	2018	12	3965
229	2019	1	.
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imi
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
d05on	Binary Variable-2005 On	0.9090909
d13on	Binary Variable-2013 On	0.7636364
feb16on	Binary Variable-February 2016 On	0.7075758
TRND	Trend	49.0000000
d14on	Binary Variable-2014 On	0.7454545

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
1	2000	1	0	0	0	22	0
2	2000	2	0	0	0	22	0
3	2000	3	0	0	0	22	0
4	2000	4	0	0	0	22	0
5	2000	5	0	0	0	22	0
6	2000	6	0	0	0	22	0
7	2000	7	0	0	0	22	0
8	2000	8	0	0	0	22	0
9	2000	9	0	0	0	22	0
10	2000	10	0	0	0	22	0
11	2000	11	0	0	0	22	0
12	2000	12	0	0	0	22	0
13	2001	1	0	0	0	23	0
14	2001	2	0	0	0	23	0
15	2001	3	0	0	0	23	0
16	2001	4	0	0	0	23	0
17	2001	5	0	0	0	23	0
18	2001	6	0	0	0	23	0
19	2001	7	0	0	0	23	0
20	2001	8	0	0	0	23	0
21	2001	9	0	0	0	23	0
22	2001	10	0	0	0	23	0
23	2001	11	0	0	0	23	0
24	2001	12	0	0	0	23	0
25	2002	1	0	0	0	24	0
26	2002	2	0	0	0	24	0
27	2002	3	0	0	0	24	0
28	2002	4	0	0	0	24	0
29	2002	5	0	0	0	24	0
30	2002	6	0	0	0	24	0
31	2002	7	0	0	0	24	0
32	2002	8	0	0	0	24	0
33	2002	9	0	0	0	24	0
34	2002	10	0	0	0	24	0
35	2002	11	0	0	0	24	0
36	2002	12	0	0	0	24	0
37	2003	1	0	0	0	25	0
38	2003	2	0	0	0	25	0
39	2003	3	0	0	0	25	0
40	2003	4	0	0	0	25	0
41	2003	5	0	0	0	25	0
42	2003	6	0	0	0	25	0
43	2003	7	0	0	0	25	0
44	2003	8	0	0	0	25	0
45	2003	9	0	0	0	25	0
46	2003	10	0	0	0	25	0
47	2003	11	0	0	0	25	0
48	2003	12	0	0	0	25	0
49	2004	1	0	0	0	26	0

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
50	2004	2	0	0	0	26	0
51	2004	3	0	0	0	26	0
52	2004	4	0	0	0	26	0
53	2004	5	0	0	0	26	0
54	2004	6	0	0	0	26	0
55	2004	7	0	0	0	26	0
56	2004	8	0	0	0	26	0
57	2004	9	0	0	0	26	0
58	2004	10	0	0	0	26	0
59	2004	11	0	0	0	26	0
60	2004	12	0	0	0	26	0
61	2005	1	1	0	0	27	0
62	2005	2	1	0	0	27	0
63	2005	3	1	0	0	27	0
64	2005	4	1	0	0	27	0
65	2005	5	1	0	0	27	0
66	2005	6	1	0	0	27	0
67	2005	7	1	0	0	27	0
68	2005	8	1	0	0	27	0
69	2005	9	1	0	0	27	0
70	2005	10	1	0	0	27	0
71	2005	11	1	0	0	27	0
72	2005	12	1	0	0	27	0
73	2006	1	1	0	0	28	0
74	2006	2	1	0	0	28	0
75	2006	3	1	0	0	28	0
76	2006	4	1	0	0	28	0
77	2006	5	1	0	0	28	0
78	2006	6	1	0	0	28	0
79	2006	7	1	0	0	28	0
80	2006	8	1	0	0	28	0
81	2006	9	1	0	0	28	0
82	2006	10	1	0	0	28	0
83	2006	11	1	0	0	28	0
84	2006	12	1	0	0	28	0
85	2007	1	1	0	0	29	0
86	2007	2	1	0	0	29	0
87	2007	3	1	0	0	29	0
88	2007	4	1	0	0	29	0
89	2007	5	1	0	0	29	0
90	2007	6	1	0	0	29	0
91	2007	7	1	0	0	29	0
92	2007	8	1	0	0	29	0
93	2007	9	1	0	0	29	0
94	2007	10	1	0	0	29	0
95	2007	11	1	0	0	29	0
96	2007	12	1	0	0	29	0
97	2008	1	1	0	0	30	0
98	2008	2	1	0	0	30	0

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
99	2008	3	1	0	0	30	0
100	2008	4	1	0	0	30	0
101	2008	5	1	0	0	30	0
102	2008	6	1	0	0	30	0
103	2008	7	1	0	0	30	0
104	2008	8	1	0	0	30	0
105	2008	9	1	0	0	30	0
106	2008	10	1	0	0	30	0
107	2008	11	1	0	0	30	0
108	2008	12	1	0	0	30	0
109	2009	1	1	0	0	31	0
110	2009	2	1	0	0	31	0
111	2009	3	1	0	0	31	0
112	2009	4	1	0	0	31	0
113	2009	5	1	0	0	31	0
114	2009	6	1	0	0	31	0
115	2009	7	1	0	0	31	0
116	2009	8	1	0	0	31	0
117	2009	9	1	0	0	31	0
118	2009	10	1	0	0	31	0
119	2009	11	1	0	0	31	0
120	2009	12	1	0	0	31	0
121	2010	1	1	0	0	32	0
122	2010	2	1	0	0	32	0
123	2010	3	1	0	0	32	0
124	2010	4	1	0	0	32	0
125	2010	5	1	0	0	32	0
126	2010	6	1	0	0	32	0
127	2010	7	1	0	0	32	0
128	2010	8	1	0	0	32	0
129	2010	9	1	0	0	32	0
130	2010	10	1	0	0	32	0
131	2010	11	1	0	0	32	0
132	2010	12	1	0	0	32	0
133	2011	1	1	0	0	33	0
134	2011	2	1	0	0	33	0
135	2011	3	1	0	0	33	0
136	2011	4	1	0	0	33	0
137	2011	5	1	0	0	33	0
138	2011	6	1	0	0	33	0
139	2011	7	1	0	0	33	0
140	2011	8	1	0	0	33	0
141	2011	9	1	0	0	33	0
142	2011	10	1	0	0	33	0
143	2011	11	1	0	0	33	0
144	2011	12	1	0	0	33	0
145	2012	1	1	0	0	34	0
146	2012	2	1	0	0	34	0
147	2012	3	1	0	0	34	0

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
148	2012	4	1	0	0	34	0
149	2012	5	1	0	0	34	0
150	2012	6	1	0	0	34	0
151	2012	7	1	0	0	34	0
152	2012	8	1	0	0	34	0
153	2012	9	1	0	0	34	0
154	2012	10	1	0	0	34	0
155	2012	11	1	0	0	34	0
156	2012	12	1	0	0	34	0
157	2013	1	1	1	0	35	0
158	2013	2	1	1	0	35	0
159	2013	3	1	1	0	35	0
160	2013	4	1	1	0	35	0
161	2013	5	1	1	0	35	0
162	2013	6	1	1	0	35	0
163	2013	7	1	1	0	35	0
164	2013	8	1	1	0	35	0
165	2013	9	1	1	0	35	0
166	2013	10	1	1	0	35	0
167	2013	11	1	1	0	35	0
168	2013	12	1	1	0	35	0
169	2014	1	1	1	0	36	1
170	2014	2	1	1	0	36	1
171	2014	3	1	1	0	36	1
172	2014	4	1	1	0	36	1
173	2014	5	1	1	0	36	1
174	2014	6	1	1	0	36	1
175	2014	7	1	1	0	36	1
176	2014	8	1	1	0	36	1
177	2014	9	1	1	0	36	1
178	2014	10	1	1	0	36	1
179	2014	11	1	1	0	36	1
180	2014	12	1	1	0	36	1
181	2015	1	1	1	0	37	1
182	2015	2	1	1	0	37	1
183	2015	3	1	1	0	37	1
184	2015	4	1	1	0	37	1
185	2015	5	1	1	0	37	1
186	2015	6	1	1	0	37	1
187	2015	7	1	1	0	37	1
188	2015	8	1	1	0	37	1
189	2015	9	1	1	0	37	1
190	2015	10	1	1	0	37	1
191	2015	11	1	1	0	37	1
192	2015	12	1	1	0	37	1
193	2016	1	1	1	0	38	1
194	2016	2	1	1	1	38	1
195	2016	3	1	1	1	38	1
196	2016	4	1	1	1	38	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
197	2016	5	1	1	1	38	1
198	2016	6	1	1	1	38	1
199	2016	7	1	1	1	38	1
200	2016	8	1	1	1	38	1
201	2016	9	1	1	1	38	1
202	2016	10	1	1	1	38	1
203	2016	11	1	1	1	38	1
204	2016	12	1	1	1	38	1
205	2017	1	1	1	1	39	1
206	2017	2	1	1	1	39	1
207	2017	3	1	1	1	39	1
208	2017	4	1	1	1	39	1
209	2017	5	1	1	1	39	1
210	2017	6	1	1	1	39	1
211	2017	7	1	1	1	39	1
212	2017	8	1	1	1	39	1
213	2017	9	1	1	1	39	1
214	2017	10	1	1	1	39	1
215	2017	11	1	1	1	39	1
216	2017	12	1	1	1	39	1
217	2018	1	1	1	1	40	1
218	2018	2	1	1	1	40	1
219	2018	3	1	1	1	40	1
220	2018	4	1	1	1	40	1
221	2018	5	1	1	1	40	1
222	2018	6	1	1	1	40	1
223	2018	7	1	1	1	40	1
224	2018	8	1	1	1	40	1
225	2018	9	1	1	1	40	1
226	2018	10	1	1	1	40	1
227	2018	11	1	1	1	40	1
228	2018	12	1	1	1	40	1
229	2019	1	1	1	1	41	1
230	2019	2	1	1	1	41	1
231	2019	3	1	1	1	41	1
232	2019	4	1	1	1	41	1
233	2019	5	1	1	1	41	1
234	2019	6	1	1	1	41	1
235	2019	7	1	1	1	41	1
236	2019	8	1	1	1	41	1
237	2019	9	1	1	1	41	1
238	2019	10	1	1	1	41	1
239	2019	11	1	1	1	41	1
240	2019	12	1	1	1	41	1
241	2020	1	1	1	1	42	1
242	2020	2	1	1	1	42	1
243	2020	3	1	1	1	42	1
244	2020	4	1	1	1	42	1
245	2020	5	1	1	1	42	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
246	2020	6	1	1	1	42	1
247	2020	7	1	1	1	42	1
248	2020	8	1	1	1	42	1
249	2020	9	1	1	1	42	1
250	2020	10	1	1	1	42	1
251	2020	11	1	1	1	42	1
252	2020	12	1	1	1	42	1
253	2021	1	1	1	1	43	1
254	2021	2	1	1	1	43	1
255	2021	3	1	1	1	43	1
256	2021	4	1	1	1	43	1
257	2021	5	1	1	1	43	1
258	2021	6	1	1	1	43	1
259	2021	7	1	1	1	43	1
260	2021	8	1	1	1	43	1
261	2021	9	1	1	1	43	1
262	2021	10	1	1	1	43	1
263	2021	11	1	1	1	43	1
264	2021	12	1	1	1	43	1
265	2022	1	1	1	1	44	1
266	2022	2	1	1	1	44	1
267	2022	3	1	1	1	44	1
268	2022	4	1	1	1	44	1
269	2022	5	1	1	1	44	1
270	2022	6	1	1	1	44	1
271	2022	7	1	1	1	44	1
272	2022	8	1	1	1	44	1
273	2022	9	1	1	1	44	1
274	2022	10	1	1	1	44	1
275	2022	11	1	1	1	44	1
276	2022	12	1	1	1	44	1
277	2023	1	1	1	1	45	1
278	2023	2	1	1	1	45	1
279	2023	3	1	1	1	45	1
280	2023	4	1	1	1	45	1
281	2023	5	1	1	1	45	1
282	2023	6	1	1	1	45	1
283	2023	7	1	1	1	45	1
284	2023	8	1	1	1	45	1
285	2023	9	1	1	1	45	1
286	2023	10	1	1	1	45	1
287	2023	11	1	1	1	45	1
288	2023	12	1	1	1	45	1
289	2024	1	1	1	1	46	1
290	2024	2	1	1	1	46	1
291	2024	3	1	1	1	46	1
292	2024	4	1	1	1	46	1
293	2024	5	1	1	1	46	1
294	2024	6	1	1	1	46	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
295	2024	7	1	1	1	46	1
296	2024	8	1	1	1	46	1
297	2024	9	1	1	1	46	1
298	2024	10	1	1	1	46	1
299	2024	11	1	1	1	46	1
300	2024	12	1	1	1	46	1
301	2025	1	1	1	1	47	1
302	2025	2	1	1	1	47	1
303	2025	3	1	1	1	47	1
304	2025	4	1	1	1	47	1
305	2025	5	1	1	1	47	1
306	2025	6	1	1	1	47	1
307	2025	7	1	1	1	47	1
308	2025	8	1	1	1	47	1
309	2025	9	1	1	1	47	1
310	2025	10	1	1	1	47	1
311	2025	11	1	1	1	47	1
312	2025	12	1	1	1	47	1
313	2026	1	1	1	1	48	1
314	2026	2	1	1	1	48	1
315	2026	3	1	1	1	48	1
316	2026	4	1	1	1	48	1
317	2026	5	1	1	1	48	1
318	2026	6	1	1	1	48	1
319	2026	7	1	1	1	48	1
320	2026	8	1	1	1	48	1
321	2026	9	1	1	1	48	1
322	2026	10	1	1	1	48	1
323	2026	11	1	1	1	48	1
324	2026	12	1	1	1	48	1
325	2027	1	1	1	1	49	1
326	2027	2	1	1	1	49	1
327	2027	3	1	1	1	49	1
328	2027	4	1	1	1	49	1
329	2027	5	1	1	1	49	1
330	2027	6	1	1	1	49	1
331	2027	7	1	1	1	49	1
332	2027	8	1	1	1	49	1
333	2027	9	1	1	1	49	1
334	2027	10	1	1	1	49	1
335	2027	11	1	1	1	49	1
336	2027	12	1	1	1	49	1
337	2028	1	1	1	1	50	1
338	2028	2	1	1	1	50	1
339	2028	3	1	1	1	50	1
340	2028	4	1	1	1	50	1
341	2028	5	1	1	1	50	1
342	2028	6	1	1	1	50	1
343	2028	7	1	1	1	50	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
344	2028	8	1	1	1	50	1
345	2028	9	1	1	1	50	1
346	2028	10	1	1	1	50	1
347	2028	11	1	1	1	50	1
348	2028	12	1	1	1	50	1
349	2029	1	1	1	1	51	1
350	2029	2	1	1	1	51	1
351	2029	3	1	1	1	51	1
352	2029	4	1	1	1	51	1
353	2029	5	1	1	1	51	1
354	2029	6	1	1	1	51	1
355	2029	7	1	1	1	51	1
356	2029	8	1	1	1	51	1
357	2029	9	1	1	1	51	1
358	2029	10	1	1	1	51	1
359	2029	11	1	1	1	51	1
360	2029	12	1	1	1	51	1
361	2030	1	1	1	1	52	1
362	2030	2	1	1	1	52	1
363	2030	3	1	1	1	52	1
364	2030	4	1	1	1	52	1
365	2030	5	1	1	1	52	1
366	2030	6	1	1	1	52	1
367	2030	7	1	1	1	52	1
368	2030	8	1	1	1	52	1
369	2030	9	1	1	1	52	1
370	2030	10	1	1	1	52	1
371	2030	11	1	1	1	52	1
372	2030	12	1	1	1	52	1
373	2031	1	1	1	1	53	1
374	2031	2	1	1	1	53	1
375	2031	3	1	1	1	53	1
376	2031	4	1	1	1	53	1
377	2031	5	1	1	1	53	1
378	2031	6	1	1	1	53	1
379	2031	7	1	1	1	53	1
380	2031	8	1	1	1	53	1
381	2031	9	1	1	1	53	1
382	2031	10	1	1	1	53	1
383	2031	11	1	1	1	53	1
384	2031	12	1	1	1	53	1
385	2032	1	1	1	1	54	1
386	2032	2	1	1	1	54	1
387	2032	3	1	1	1	54	1
388	2032	4	1	1	1	54	1
389	2032	5	1	1	1	54	1
390	2032	6	1	1	1	54	1
391	2032	7	1	1	1	54	1
392	2032	8	1	1	1	54	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
393	2032	9	1	1	1	54	1
394	2032	10	1	1	1	54	1
395	2032	11	1	1	1	54	1
396	2032	12	1	1	1	54	1
397	2033	1	1	1	1	55	1
398	2033	2	1	1	1	55	1
399	2033	3	1	1	1	55	1
400	2033	4	1	1	1	55	1
401	2033	5	1	1	1	55	1
402	2033	6	1	1	1	55	1
403	2033	7	1	1	1	55	1
404	2033	8	1	1	1	55	1
405	2033	9	1	1	1	55	1
406	2033	10	1	1	1	55	1
407	2033	11	1	1	1	55	1
408	2033	12	1	1	1	55	1
409	2034	1	1	1	1	56	1
410	2034	2	1	1	1	56	1
411	2034	3	1	1	1	56	1
412	2034	4	1	1	1	56	1
413	2034	5	1	1	1	56	1
414	2034	6	1	1	1	56	1
415	2034	7	1	1	1	56	1
416	2034	8	1	1	1	56	1
417	2034	9	1	1	1	56	1
418	2034	10	1	1	1	56	1
419	2034	11	1	1	1	56	1
420	2034	12	1	1	1	56	1
421	2035	1	1	1	1	57	1
422	2035	2	1	1	1	57	1
423	2035	3	1	1	1	57	1
424	2035	4	1	1	1	57	1
425	2035	5	1	1	1	57	1
426	2035	6	1	1	1	57	1
427	2035	7	1	1	1	57	1
428	2035	8	1	1	1	57	1
429	2035	9	1	1	1	57	1
430	2035	10	1	1	1	57	1
431	2035	11	1	1	1	57	1
432	2035	12	1	1	1	57	1
433	2036	1	1	1	1	58	1
434	2036	2	1	1	1	58	1
435	2036	3	1	1	1	58	1
436	2036	4	1	1	1	58	1
437	2036	5	1	1	1	58	1
438	2036	6	1	1	1	58	1
439	2036	7	1	1	1	58	1
440	2036	8	1	1	1	58	1
441	2036	9	1	1	1	58	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
442	2036	10	1	1	1	58	1
443	2036	11	1	1	1	58	1
444	2036	12	1	1	1	58	1
445	2037	1	1	1	1	59	1
446	2037	2	1	1	1	59	1
447	2037	3	1	1	1	59	1
448	2037	4	1	1	1	59	1
449	2037	5	1	1	1	59	1
450	2037	6	1	1	1	59	1
451	2037	7	1	1	1	59	1
452	2037	8	1	1	1	59	1
453	2037	9	1	1	1	59	1
454	2037	10	1	1	1	59	1
455	2037	11	1	1	1	59	1
456	2037	12	1	1	1	59	1
457	2038	1	1	1	1	60	1
458	2038	2	1	1	1	60	1
459	2038	3	1	1	1	60	1
460	2038	4	1	1	1	60	1
461	2038	5	1	1	1	60	1
462	2038	6	1	1	1	60	1
463	2038	7	1	1	1	60	1
464	2038	8	1	1	1	60	1
465	2038	9	1	1	1	60	1
466	2038	10	1	1	1	60	1
467	2038	11	1	1	1	60	1
468	2038	12	1	1	1	60	1
469	2039	1	1	1	1	61	1
470	2039	2	1	1	1	61	1
471	2039	3	1	1	1	61	1
472	2039	4	1	1	1	61	1
473	2039	5	1	1	1	61	1
474	2039	6	1	1	1	61	1
475	2039	7	1	1	1	61	1
476	2039	8	1	1	1	61	1
477	2039	9	1	1	1	61	1
478	2039	10	1	1	1	61	1
479	2039	11	1	1	1	61	1
480	2039	12	1	1	1	61	1
481	2040	1	1	1	1	62	1
482	2040	2	1	1	1	62	1
483	2040	3	1	1	1	62	1
484	2040	4	1	1	1	62	1
485	2040	5	1	1	1	62	1
486	2040	6	1	1	1	62	1
487	2040	7	1	1	1	62	1
488	2040	8	1	1	1	62	1
489	2040	9	1	1	1	62	1
490	2040	10	1	1	1	62	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
491	2040	11	1	1	1	62	1
492	2040	12	1	1	1	62	1
493	2041	1	1	1	1	63	1
494	2041	2	1	1	1	63	1
495	2041	3	1	1	1	63	1
496	2041	4	1	1	1	63	1
497	2041	5	1	1	1	63	1
498	2041	6	1	1	1	63	1
499	2041	7	1	1	1	63	1
500	2041	8	1	1	1	63	1
501	2041	9	1	1	1	63	1
502	2041	10	1	1	1	63	1
503	2041	11	1	1	1	63	1
504	2041	12	1	1	1	63	1
505	2042	1	1	1	1	64	1
506	2042	2	1	1	1	64	1
507	2042	3	1	1	1	64	1
508	2042	4	1	1	1	64	1
509	2042	5	1	1	1	64	1
510	2042	6	1	1	1	64	1
511	2042	7	1	1	1	64	1
512	2042	8	1	1	1	64	1
513	2042	9	1	1	1	64	1
514	2042	10	1	1	1	64	1
515	2042	11	1	1	1	64	1
516	2042	12	1	1	1	64	1
517	2043	1	1	1	1	65	1
518	2043	2	1	1	1	65	1
519	2043	3	1	1	1	65	1
520	2043	4	1	1	1	65	1
521	2043	5	1	1	1	65	1
522	2043	6	1	1	1	65	1
523	2043	7	1	1	1	65	1
524	2043	8	1	1	1	65	1
525	2043	9	1	1	1	65	1
526	2043	10	1	1	1	65	1
527	2043	11	1	1	1	65	1
528	2043	12	1	1	1	65	1
529	2044	1	1	1	1	66	1
530	2044	2	1	1	1	66	1
531	2044	3	1	1	1	66	1
532	2044	4	1	1	1	66	1
533	2044	5	1	1	1	66	1
534	2044	6	1	1	1	66	1
535	2044	7	1	1	1	66	1
536	2044	8	1	1	1	66	1
537	2044	9	1	1	1	66	1
538	2044	10	1	1	1	66	1
539	2044	11	1	1	1	66	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
540	2044	12	1	1	1	66	1
541	2045	1	1	1	1	67	1
542	2045	2	1	1	1	67	1
543	2045	3	1	1	1	67	1
544	2045	4	1	1	1	67	1
545	2045	5	1	1	1	67	1
546	2045	6	1	1	1	67	1
547	2045	7	1	1	1	67	1
548	2045	8	1	1	1	67	1
549	2045	9	1	1	1	67	1
550	2045	10	1	1	1	67	1
551	2045	11	1	1	1	67	1
552	2045	12	1	1	1	67	1
553	2046	1	1	1	1	68	1
554	2046	2	1	1	1	68	1
555	2046	3	1	1	1	68	1
556	2046	4	1	1	1	68	1
557	2046	5	1	1	1	68	1
558	2046	6	1	1	1	68	1
559	2046	7	1	1	1	68	1
560	2046	8	1	1	1	68	1
561	2046	9	1	1	1	68	1
562	2046	10	1	1	1	68	1
563	2046	11	1	1	1	68	1
564	2046	12	1	1	1	68	1
565	2047	1	1	1	1	69	1
566	2047	2	1	1	1	69	1
567	2047	3	1	1	1	69	1
568	2047	4	1	1	1	69	1
569	2047	5	1	1	1	69	1
570	2047	6	1	1	1	69	1
571	2047	7	1	1	1	69	1
572	2047	8	1	1	1	69	1
573	2047	9	1	1	1	69	1
574	2047	10	1	1	1	69	1
575	2047	11	1	1	1	69	1
576	2047	12	1	1	1	69	1
577	2048	1	1	1	1	70	1
578	2048	2	1	1	1	70	1
579	2048	3	1	1	1	70	1
580	2048	4	1	1	1	70	1
581	2048	5	1	1	1	70	1
582	2048	6	1	1	1	70	1
583	2048	7	1	1	1	70	1
584	2048	8	1	1	1	70	1
585	2048	9	1	1	1	70	1
586	2048	10	1	1	1	70	1
587	2048	11	1	1	1	70	1
588	2048	12	1	1	1	70	1

INDUSTRIAL CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
589	2049	1	1	1	1	71	1
590	2049	2	1	1	1	71	1
591	2049	3	1	1	1	71	1
592	2049	4	1	1	1	71	1
593	2049	5	1	1	1	71	1
594	2049	6	1	1	1	71	1
595	2049	7	1	1	1	71	1
596	2049	8	1	1	1	71	1
597	2049	9	1	1	1	71	1
598	2049	10	1	1	1	71	1
599	2049	11	1	1	1	71	1
600	2049	12	1	1	1	71	1
601	2050	1	1	1	1	72	1
602	2050	2	1	1	1	72	1
603	2050	3	1	1	1	72	1
604	2050	4	1	1	1	72	1
605	2050	5	1	1	1	72	1
606	2050	6	1	1	1	72	1
607	2050	7	1	1	1	72	1
608	2050	8	1	1	1	72	1
609	2050	9	1	1	1	72	1
610	2050	10	1	1	1	72	1
611	2050	11	1	1	1	72	1
612	2050	12	1	1	1	72	1
613	2051	1	1	1	1	73	1
614	2051	2	1	1	1	73	1
615	2051	3	1	1	1	73	1
616	2051	4	1	1	1	73	1
617	2051	5	1	1	1	73	1
618	2051	6	1	1	1	73	1
619	2051	7	1	1	1	73	1
620	2051	8	1	1	1	73	1
621	2051	9	1	1	1	73	1
622	2051	10	1	1	1	73	1
623	2051	11	1	1	1	73	1
624	2051	12	1	1	1	73	1
625	2052	1	1	1	1	74	1
626	2052	2	1	1	1	74	1
627	2052	3	1	1	1	74	1
628	2052	4	1	1	1	74	1
629	2052	5	1	1	1	74	1
630	2052	6	1	1	1	74	1
631	2052	7	1	1	1	74	1
632	2052	8	1	1	1	74	1
633	2052	9	1	1	1	74	1
634	2052	10	1	1	1	74	1
635	2052	11	1	1	1	74	1
636	2052	12	1	1	1	74	1
637	2053	1	1	1	1	75	1

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
EXOGENOUS VARIABLES

Obs	YEAR	MONTH	d05on	d13on	feb16on	TRND	d14on
638	2053	2	1	1	1	75	1
639	2053	3	1	1	1	75	1
640	2053	4	1	1	1	75	1
641	2053	5	1	1	1	75	1
642	2053	6	1	1	1	75	1
643	2053	7	1	1	1	75	1
644	2053	8	1	1	1	75	1
645	2053	9	1	1	1	75	1
646	2053	10	1	1	1	75	1
647	2053	11	1	1	1	75	1
648	2053	12	1	1	1	75	1
649	2054	1	1	1	1	76	1
650	2054	2	1	1	1	76	1
651	2054	3	1	1	1	76	1
652	2054	4	1	1	1	76	1
653	2054	5	1	1	1	76	1
654	2054	6	1	1	1	76	1
655	2054	7	1	1	1	76	1
656	2054	8	1	1	1	76	1
657	2054	9	1	1	1	76	1
658	2054	10	1	1	1	76	1
659	2054	11	1	1	1	76	1
660	2054	12	1	1	1	76	1

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model ci_imi
Dependent Variable ci_imi
Label Industrial Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1827016	365403.3	130.15	<.0001
Error	222	623292.5	2807.624		
Corrected Total	227	2450309			

Root MSE 52.98702 R-Square 0.74563
Dependent Mean 4124.25000 Adj R-Sq 0.73990
Coeff Var 1.28477

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	4406.574	50.15269	87.86	<.0001	Intercept
TRND	1	-6.76349	2.070166	-3.27	0.0013	Trend
d05on	1	-69.1311	16.03452	-4.31	<.0001	Binary Variable-2005 On
d13on	1	-25.1372	18.70823	-1.34	0.1804	Binary Variable-2013 On
d14on	1	-42.1923	18.88658	-2.23	0.0265	Binary Variable-2014 On
feb16on	1	-17.4296	14.78643	-1.18	0.2398	Binary Variable-February 2016 On

Durbin-Watson 2.247314
Number of Observations 228
First-Order Autocorrelation -0.12449

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

time

Residual Values
Sum

2000.000000	***	27.2230
2000.0833333	*****	51.2230
2000.1666667	***	32.2230
2000.2500000	**	21.2230
2000.3333333	***	29.2230
2000.4166667	*	12.2230
2000.5000000		2.2230
2000.5833333	*	11.2230
2000.6666667	*	9.2230
2000.7500000	*	9.2230
2000.8333333		4.2230
2000.9166667	**	16.2230
2001.0000000	**	24.9865
2001.0833333	*	-5.0135
2001.1666667	*****	35.9865
2001.2500000	**	17.9865
2001.3333333	**	21.9865
2001.4166667	**	16.9865
2001.5000000		-0.0135
2001.5833333	**	23.9865
2001.6666667		-1.0135
2001.7500000		-3.0135
2001.8333333	*	12.9865
2001.9166667	*	-11.0135
2002.0000000		-3.2500
2002.0833333	*	10.7500
2002.1666667	*	-7.2500
2002.2500000		4.7500
2002.3333333	*	6.7500
2002.4166667	*	6.7500
2002.5000000	*****	54.7500
2002.5833333	***	-29.2500
2002.6666667	*	-7.2500
2002.7500000	**	-16.2500
2002.8333333		-1.2500
2002.9166667	*	-11.2500
2003.0000000		-3.4865
2003.0833333		3.5135
2003.1666667	*	-13.4865
2003.2500000		-3.4865
2003.3333333		-1.4865
2003.4166667		0.5135
2003.5000000	*	12.5135
2003.5833333		4.5135
2003.6666667	*	-6.4865
2003.7500000		1.5135
2003.8333333	**	-20.4865
2003.9166667		-2.4865

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

2004.000000		****	36.2770
2004.0833333		****	-41.7230
2004.1666667		***	34.2770
2004.2500000			-3.7230
2004.3333333		**	-19.7230
2004.4166667		**	-23.7230
2004.5000000		**	-24.7230
2004.5833333		****	-43.7230
2004.6666667		****	-37.7230
2004.7500000	*****		-132.7230
2004.8333333		*****	-52.7230
2004.9166667		***	-29.7230
2005.0000000		*****	-49.8285
2005.0833333		*****	96.1715
2005.1666667		*****	45.1715
2005.2500000		*	5.1715
2005.3333333			1.1715
2005.4166667		**	-20.8285
2005.5000000		**	-18.8285
2005.5833333		*	9.1715
2005.6666667		**	-20.8285
2005.7500000		**	-17.8285
2005.8333333	*****		-128.8285
2005.9166667		*****	51.1715
2006.0000000		*	14.9350
2006.0833333	*****		-82.0650
2006.1666667		***	28.9350
2006.2500000		*****	-47.0650
2006.3333333		***	-28.0650
2006.4166667		**	-22.0650
2006.5000000		****	-37.0650
2006.5833333		**	-22.0650
2006.6666667		*****	-46.0650
2006.7500000		****	-38.0650
2006.8333333		*****	-67.0650
2006.9166667		*****	-64.0650
2007.0000000		***	-32.3015
2007.0833333		****	-42.3015
2007.1666667		**	17.6985
2007.2500000		**	-21.3015
2007.3333333	*****		-88.3015
2007.4166667		**	-18.3015
2007.5000000		*	-9.3015
2007.5833333		****	-35.3015
2007.6666667		***	-29.3015
2007.7500000		*****	-62.3015
2007.8333333		****	-41.3015
2007.9166667		*****	-54.3015
2008.0000000		**	-21.5380
2008.0833333		***	33.4620
2008.1666667		**	18.4620

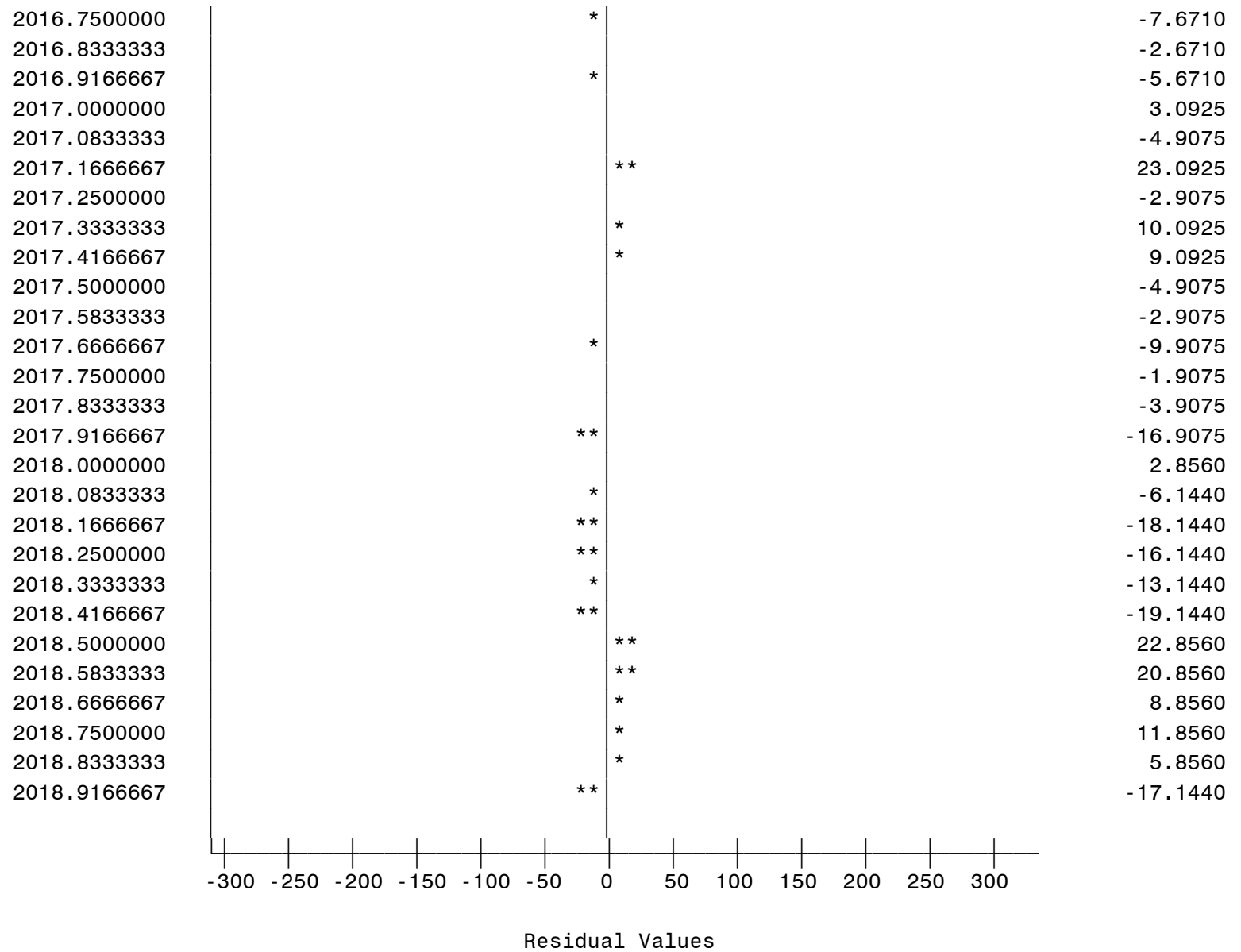
INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

2008.2500000		***	26.4620
2008.3333333		*****	51.4620
2008.4166667		*****	54.4620
2008.5000000		****	42.4620
2008.5833333		***	33.4620
2008.6666667		****	43.4620
2008.7500000		*****	51.4620
2008.8333333		**	22.4620
2008.9166667		***	-34.5380
2009.0000000		*****	109.2255
2009.0833333		*****	68.2255
2009.1666667		*****	152.2255
2009.2500000		*****	72.2255
2009.3333333		*****	58.2255
2009.4166667		*****	68.2255
2009.5000000		*****	79.2255
2009.5833333		*****	62.2255
2009.6666667		*****	50.2255
2009.7500000		*****	79.2255
2009.8333333		***	30.2255
2009.9166667		*****	-51.7745
2010.0000000		**	23.9890
2010.0833333	*****		-238.0110
2010.1666667		*****	316.9890
2010.2500000		*	10.9890
2010.3333333		*	-7.0110
2010.4166667			2.9890
2010.5000000		****	38.9890
2010.5833333		***	-28.0110
2010.6666667		*****	-56.0110
2010.7500000		***	27.9890
2010.8333333			3.9890
2010.9166667		*****	-128.0110
2011.0000000		*	6.7525
2011.0833333	*****		-295.2475
2011.1666667		*****	329.7525
2011.2500000		*	-13.2475
2011.3333333		*	-8.2475
2011.4166667		*	-12.2475
2011.5000000		***	-34.2475
2011.5833333			1.7525
2011.6666667		*	-7.2475
2011.7500000			0.7525
2011.8333333		**	-19.2475
2011.9166667		***	-28.2475
2012.0000000		*	11.5160
2012.0833333		*	-7.4840
2012.1666667		*	-7.4840
2012.2500000		**	-16.4840
2012.3333333		*	-5.4840
2012.4166667		*	-14.4840

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

2012.500000	**	-15.4840
2012.5833333		-1.4840
2012.6666667		-0.4840
2012.7500000		0.5160
2012.8333333	**	-20.4840
2012.9166667	****	-36.4840
2013.0000000	****	36.4167
2013.0833333		4.4167
2013.1666667	**	-23.5833
2013.2500000	****	43.4167
2013.3333333	*	-7.5833
2013.4166667	*	-8.5833
2013.5000000		1.4167
2013.5833333		0.4167
2013.6666667		1.4167
2013.7500000	*	6.4167
2013.8333333	***	-25.5833
2013.9166667	***	-28.5833
2014.0000000	*	10.3724
2014.0833333	**	18.3724
2014.1666667	**	20.3724
2014.2500000	*	5.3724
2014.3333333	*	14.3724
2014.4166667	*	9.3724
2014.5000000		2.3724
2014.5833333		0.3724
2014.6666667		3.3724
2014.7500000	*	-9.6276
2014.8333333		-1.6276
2014.9166667	**	-16.6276
2015.0000000	*	-8.8641
2015.0833333	*	-9.8641
2015.1666667	****	37.1359
2015.2500000	**	22.1359
2015.3333333	****	-43.8641
2015.4166667		0.1359
2015.5000000	*	-9.8641
2015.5833333	**	-21.8641
2015.6666667	*	-11.8641
2015.7500000	***	30.1359
2015.8333333		4.1359
2015.9166667	**	-24.8641
2016.0000000	**	-19.1006
2016.0833333	**	24.3290
2016.1666667	***	26.3290
2016.2500000	*	6.3290
2016.3333333	*	-8.6710
2016.4166667	*	-8.6710
2016.5000000	**	-17.6710
2016.5833333	**	17.3290
2016.6666667		-3.6710

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS



INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2000	4276.583	.
2001	4262.25	-0.3
2002	4244.917	-0.4
2003	4235.083	-0.2
2004	4202.417	-0.8
2005	4150.75	-1.2
2006	4113.917	-0.9
2007	4106.583	-0.2
2008	4161.333	1.3
2009	4192.583	0.8
2010	4118.417	-1.8
2011	4107.667	-0.3
2012	4098	-0.2
2013	4075.583	-0.5
2014	4031.333	-1.1
2015	4016.75	-0.4
2016	3997.167	-0.5
2017	3988.667	-0.2
2018	3982.144	-0.2
2019	3975.381	-0.2
2020	3968.617	-0.2
2021	3961.854	-0.2
2022	3955.09	-0.2
2023	3948.327	-0.2
2024	3941.563	-0.2
2025	3934.8	-0.2
2026	3928.036	-0.2
2027	3921.273	-0.2
2028	3914.509	-0.2
2029	3907.746	-0.2
2030	3900.982	-0.2
2031	3894.219	-0.2
2032	3887.455	-0.2
2033	3880.692	-0.2
2034	3873.928	-0.2
2035	3867.165	-0.2
2036	3860.401	-0.2
2037	3853.638	-0.2
2038	3846.874	-0.2
2039	3840.111	-0.2
2040	3833.347	-0.2
2041	3826.584	-0.2
2042	3819.82	-0.2
2043	3813.057	-0.2
2044	3806.293	-0.2
2045	3799.53	-0.2
2046	3792.766	-0.2
2047	3786.003	-0.2

INDIANA MICHIGAN POWER COMPANY - INDIANA
INDUSTRIAL CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2048	3779.239	-0.2
2049	3772.476	-0.2
2050	3765.712	-0.2
2051	3758.949	-0.2
2052	3752.185	-0.2
2053	3745.422	-0.2
2054	3738.658	-0.2

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
cu_imi	Other Retail Customers	1663.25

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
1	2000	1	1652
2	2000	2	1653
3	2000	3	1651
4	2000	4	1648
5	2000	5	1647
6	2000	6	1648
7	2000	7	1655
8	2000	8	1647
9	2000	9	1647
10	2000	10	1652
11	2000	11	1648
12	2000	12	1648
13	2001	1	1648
14	2001	2	1655
15	2001	3	1658
16	2001	4	1678
17	2001	5	1663
18	2001	6	1670
19	2001	7	1671
20	2001	8	1670
21	2001	9	1676
22	2001	10	1680
23	2001	11	1687
24	2001	12	1685
25	2002	1	1691
26	2002	2	1686
27	2002	3	1675
28	2002	4	1689
29	2002	5	1680
30	2002	6	1679
31	2002	7	1682
32	2002	8	1683
33	2002	9	1679
34	2002	10	1682
35	2002	11	1681
36	2002	12	1690
37	2003	1	1683
38	2003	2	1681
39	2003	3	1683
40	2003	4	1691
41	2003	5	1687
42	2003	6	1688
43	2003	7	1689
44	2003	8	1694
45	2003	9	1692
46	2003	10	1695
47	2003	11	1695
48	2003	12	1709
49	2004	1	1718

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
50	2004	2	1716
51	2004	3	1716
52	2004	4	1708
53	2004	5	1707
54	2004	6	1711
55	2004	7	1714
56	2004	8	1722
57	2004	9	1713
58	2004	10	1730
59	2004	11	1740
60	2004	12	1742
61	2005	1	1740
62	2005	2	1742
63	2005	3	1735
64	2005	4	1725
65	2005	5	1732
66	2005	6	1731
67	2005	7	1733
68	2005	8	1738
69	2005	9	1730
70	2005	10	1728
71	2005	11	1728
72	2005	12	1725
73	2006	1	1741
74	2006	2	1735
75	2006	3	1734
76	2006	4	1733
77	2006	5	1730
78	2006	6	1733
79	2006	7	1728
80	2006	8	1731
81	2006	9	1726
82	2006	10	1727
83	2006	11	1727
84	2006	12	1736
85	2007	1	1735
86	2007	2	1736
87	2007	3	1727
88	2007	4	1723
89	2007	5	1718
90	2007	6	1718
91	2007	7	1711
92	2007	8	1715
93	2007	9	1696
94	2007	10	1674
95	2007	11	1700
96	2007	12	1707
97	2008	1	1711
98	2008	2	1708

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
99	2008	3	1697
100	2008	4	1701
101	2008	5	1696
102	2008	6	1701
103	2008	7	1687
104	2008	8	1690
105	2008	9	1688
106	2008	10	1690
107	2008	11	1694
108	2008	12	1705
109	2009	1	1711
110	2009	2	1710
111	2009	3	1704
112	2009	4	1692
113	2009	5	1696
114	2009	6	1692
115	2009	7	1705
116	2009	8	1702
117	2009	9	1700
118	2009	10	1698
119	2009	11	1711
120	2009	12	1702
121	2010	1	1712
122	2010	2	1668
123	2010	3	1738
124	2010	4	1690
125	2010	5	1685
126	2010	6	1683
127	2010	7	1683
128	2010	8	1676
129	2010	9	1670
130	2010	10	1666
131	2010	11	1679
132	2010	12	1663
133	2011	1	1682
134	2011	2	1622
135	2011	3	1703
136	2011	4	1659
137	2011	5	1660
138	2011	6	1660
139	2011	7	1657
140	2011	8	1655
141	2011	9	1521
142	2011	10	1792
143	2011	11	1663
144	2011	12	1662
145	2012	1	1669
146	2012	2	1655
147	2012	3	1495

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
148	2012	4	1817
149	2012	5	1655
150	2012	6	1655
151	2012	7	1654
152	2012	8	1656
153	2012	9	1649
154	2012	10	1644
155	2012	11	1657
156	2012	12	1655
157	2013	1	1654
158	2013	2	1720
159	2013	3	1537
160	2013	4	1666
161	2013	5	1640
162	2013	6	1639
163	2013	7	1641
164	2013	8	1637
165	2013	9	1636
166	2013	10	1657
167	2013	11	1646
168	2013	12	1645
169	2014	1	1645
170	2014	2	1634
171	2014	3	1640
172	2014	4	1615
173	2014	5	1622
174	2014	6	1621
175	2014	7	1621
176	2014	8	1598
177	2014	9	1594
178	2014	10	1590
179	2014	11	1610
180	2014	12	1600
181	2015	1	1595
182	2015	2	1600
183	2015	3	1604
184	2015	4	1589
185	2015	5	1582
186	2015	6	1591
187	2015	7	1587
188	2015	8	1589
189	2015	9	1588
190	2015	10	1590
191	2015	11	1604
192	2015	12	1602
193	2016	1	1632
194	2016	2	1598
195	2016	3	1594
196	2016	4	1591

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
197	2016	5	1589
198	2016	6	1588
199	2016	7	1585
200	2016	8	1588
201	2016	9	1588
202	2016	10	1588
203	2016	11	1597
204	2016	12	1606
205	2017	1	1596
206	2017	2	1590
207	2017	3	1601
208	2017	4	1602
209	2017	5	1585
210	2017	6	1583
211	2017	7	1595
212	2017	8	1582
213	2017	9	1580
214	2017	10	1580
215	2017	11	1592
216	2017	12	1589
217	2018	1	1591
218	2018	2	1578
219	2018	3	1579
220	2018	4	1575
221	2018	5	1572
222	2018	6	1400
223	2018	7	1739
224	2018	8	1569
225	2018	9	1566
226	2018	10	1567
227	2018	11	1575
228	2018	12	1575
229	2019	1	.
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imi
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

INDIANA MICHIGAN COMPANY - INDIANA
 OTHER ULTIMATE CUSTOMERS
 ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2000	1649.67	.
2001	1670.08	1.2
2002	1683.08	0.8
2003	1690.58	0.4
2004	1719.75	1.7
2005	1732.25	0.7
2006	1731.75	0.0
2007	1713.33	-1.1
2008	1697.33	-0.9
2009	1701.92	0.3
2010	1684.42	-1.0
2011	1661.33	-1.4
2012	1655.08	-0.4
2013	1643.17	-0.7
2014	1615.83	-1.7
2015	1593.42	-1.4
2016	1595.33	0.1
2017	1589.58	-0.4
2018	1573.83	-1.0
2019	1564.00	-0.6
2020	1564.00	0.0
2021	1564.00	0.0
2022	1564.00	0.0
2023	1564.00	0.0
2024	1564.00	0.0
2025	1564.00	0.0
2026	1564.00	0.0
2027	1564.00	0.0
2028	1564.00	0.0
2029	1564.00	0.0
2030	1564.00	0.0
2031	1564.00	0.0
2032	1564.00	0.0
2033	1564.00	0.0
2034	1564.00	0.0
2035	1564.00	0.0
2036	1564.00	0.0
2037	1564.00	0.0
2038	1564.00	0.0
2039	1564.00	0.0
2040	1564.00	0.0
2041	1564.00	0.0
2042	1564.00	0.0
2043	1564.00	0.0
2044	1564.00	0.0
2045	1564.00	0.0
2046	1564.00	0.0
2047	1564.00	0.0

INDIANA MICHIGAN POWER COMPANY - INDIANA
OTHER ULTIMATE CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2048	1564	0
2049	1564	0
2050	1564	0
2051	1564	0
2052	1564	0
2053	1564	0
2054	1564	0

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.500000
cr_imm	Residential Customers	108198.77

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
1	2000	1	104486
2	2000	2	104522
3	2000	3	104570
4	2000	4	104351
5	2000	5	104357
6	2000	6	104551
7	2000	7	104688
8	2000	8	104726
9	2000	9	104684
10	2000	10	104722
11	2000	11	104759
12	2000	12	104829
13	2001	1	105067
14	2001	2	105015
15	2001	3	105108
16	2001	4	104880
17	2001	5	102778
18	2001	6	105070
19	2001	7	105042
20	2001	8	105229
21	2001	9	105127
22	2001	10	105115
23	2001	11	105196
24	2001	12	105242
25	2002	1	105532
26	2002	2	105630
27	2002	3	105450
28	2002	4	104079
29	2002	5	105681
30	2002	6	105617
31	2002	7	105623
32	2002	8	105801
33	2002	9	105920
34	2002	10	105882
35	2002	11	105858
36	2002	12	106057
37	2003	1	106335
38	2003	2	109269
39	2003	3	106356
40	2003	4	106220
41	2003	5	106335
42	2003	6	106227
43	2003	7	106284
44	2003	8	106347
45	2003	9	106262
46	2003	10	106388
47	2003	11	106378
48	2003	12	106568
49	2004	1	106759
50	2004	2	106753

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
51	2004	3	106991
52	2004	4	106898
53	2004	5	106805
54	2004	6	107004
55	2004	7	106965
56	2004	8	107227
57	2004	9	107146
58	2004	10	107418
59	2004	11	107457
60	2004	12	107544
61	2005	1	107514
62	2005	2	106548
63	2005	3	108451
64	2005	4	107970
65	2005	5	107575
66	2005	6	107694
67	2005	7	107582
68	2005	8	107891
69	2005	9	107703
70	2005	10	107924
71	2005	11	107714
72	2005	12	108111
73	2006	1	108242
74	2006	2	107012
75	2006	3	109786
76	2006	4	108167
77	2006	5	108298
78	2006	6	108242
79	2006	7	108233
80	2006	8	108580
81	2006	9	108384
82	2006	10	108611
83	2006	11	108473
84	2006	12	108570
85	2007	1	108726
86	2007	2	108783
87	2007	3	109082
88	2007	4	108933
89	2007	5	108793
90	2007	6	108971
91	2007	7	108912
92	2007	8	109055
93	2007	9	108881
94	2007	10	109002
95	2007	11	108911
96	2007	12	109064
97	2008	1	109268
98	2008	2	109458
99	2008	3	109390
100	2008	4	109143

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
101	2008	5	109112
102	2008	6	109096
103	2008	7	109198
104	2008	8	109218
105	2008	9	109231
106	2008	10	109267
107	2008	11	109005
108	2008	12	109312
109	2009	1	109390
110	2009	2	108999
111	2009	3	110263
112	2009	4	109396
113	2009	5	109271
114	2009	6	109196
115	2009	7	109210
116	2009	8	109190
117	2009	9	109188
118	2009	10	109179
119	2009	11	109133
120	2009	12	109351
121	2010	1	109502
122	2010	2	107628
123	2010	3	111530
124	2010	4	109314
125	2010	5	109185
126	2010	6	109369
127	2010	7	109296
128	2010	8	109234
129	2010	9	109234
130	2010	10	109301
131	2010	11	109407
132	2010	12	109347
133	2011	1	109413
134	2011	2	107045
135	2011	3	112172
136	2011	4	109171
137	2011	5	109140
138	2011	6	109123
139	2011	7	108972
140	2011	8	109114
141	2011	9	108938
142	2011	10	108876
143	2011	11	109025
144	2011	12	108957
145	2012	1	109081
146	2012	2	109153
147	2012	3	109049
148	2012	4	108969
149	2012	5	109017
150	2012	6	108904

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
151	2012	7	109030
152	2012	8	109118
153	2012	9	108946
154	2012	10	109002
155	2012	11	108982
156	2012	12	108980
157	2013	1	109296
158	2013	2	109178
159	2013	3	109165
160	2013	4	109180
161	2013	5	109031
162	2013	6	109093
163	2013	7	109068
164	2013	8	109052
165	2013	9	108990
166	2013	10	108976
167	2013	11	109066
168	2013	12	109240
169	2014	1	109268
170	2014	2	109199
171	2014	3	109302
172	2014	4	109104
173	2014	5	108922
174	2014	6	108819
175	2014	7	108747
176	2014	8	108711
177	2014	9	108724
178	2014	10	108701
179	2014	11	108741
180	2014	12	108921
181	2015	1	109065
182	2015	2	109122
183	2015	3	109206
184	2015	4	108928
185	2015	5	108836
186	2015	6	108787
187	2015	7	108858
188	2015	8	108851
189	2015	9	108902
190	2015	10	108873
191	2015	11	108944
192	2015	12	108989
193	2016	1	109076
194	2016	2	109220
195	2016	3	109237
196	2016	4	106935
197	2016	5	109078
198	2016	6	109117
199	2016	7	109188
200	2016	8	109210

Indiana Michigan Power Company - Michigan
 Residential Customers
 Endogenous Variables

Obs	YEAR	MONTH	cr_imm
201	2016	9	109231
202	2016	10	109112
203	2016	11	109312
204	2016	12	109486
205	2017	1	109592
206	2017	2	109638
207	2017	3	109792
208	2017	4	109560
209	2017	5	109583
210	2017	6	109645
211	2017	7	109668
212	2017	8	109688
213	2017	9	109782
214	2017	10	109793
215	2017	11	109862
216	2017	12	110013
217	2018	1	110159
218	2018	2	110173
219	2018	3	110147
220	2018	4	110146
221	2018	5	110088
222	2018	6	110071
223	2018	7	110277
224	2018	8	110224
225	2018	9	110154
226	2018	10	110280
227	2018	11	110164
228	2018	12	110207
229	2019	1	.
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.

Indiana Michigan Power Company - Michigan
Residential Customers
Endogenous Variables

Obs	YEAR	MONTH	cr_imm
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

Indiana Michigan Power Company - Michigan
Residential Customers
Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
N_imm	Service Area Population	326.2454247
hh_imm	Service Area Households	135.7577539
d3	Binary Variable - March	0.0833333
d5	Binary Variable - May	0.0833333
d6	Binary Variable - June	0.0833333
d7	Binary Variable - July	0.0833333
d8	Binary Variable - August	0.0833333
d9	Binary Variable - September	0.0833333
d10	Binary Variable - October	0.0833333
d11	Binary Variable - November	0.0833333
dfeb03	Binary Variable - February 2003	0.0015152
dmar03	Binary Variable - March 2003	0.0015152
dmar05	Binary Variable - March 2005	0.0015152
d04on	Binary Variable - 2004 On	0.9272727
dfeb06	Binary Variable - February 2006	0.0015152
dmar06	Binary Variable - March 2006	0.0015152
dapr06	Binary Variable - April 2006	0.0015152
dfeb10	Binary Variable - February 2010	0.0015152
dmar10	Binary Variable - March 2010	0.0015152
dapr10	Binary Variable - April 2010	0.0015152
dmar11	Binary Variable - March 2011	0.0015152
dfeb11	Binary Variable - February 2011	0.0015152
jul11on	Binary Variable - July 2011 On	0.7909091
may01	Binary Variable - May 2001	0.0015152
apr16	Binary Variable - April 2016	0.0015152
may16	Binary Variable - May 2016	0.0015152
d07on	Binary Variable - 2007 On	0.8727273
d14on	Binary Variable - 2014 On	0.7454545
dec14on	Binary Variable - December 2014 On	0.7287879
d17on	Binary Variable - 2017 On	0.6909091

Indiana Michigan Power Company - Michigan
Residential Customers
Exogenous Variables

s	R	H	M	N	h	j													d																
						Y	O	E	A	T	—	—	i	i	d	d	b	r	r	4	b	r	r	b	r	r	b	1	y	r	y	7	4	4	7	e	c	d
0	1	2	3	4	5	6	7	8	9	0	1	3	3	5	n	6	6	6	0	0	0	1	1	1	1	1	1	0	1	1	0	0	0	0	0
265	2022	1	337.119	138.780	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
266	2022	2	337.008	138.800	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
267	2022	3	336.896	138.819	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
268	2022	4	336.782	138.840	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
269	2022	5	336.667	138.860	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
270	2022	6	336.553	138.881	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
271	2022	7	336.439	138.898	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
272	2022	8	336.324	138.916	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
273	2022	9	336.210	138.931	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
274	2022	10	336.097	138.947	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
275	2022	11	335.983	138.960	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
276	2022	12	335.869	138.974	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
277	2023	1	335.754	138.987	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
278	2023	2	335.645	138.996	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
279	2023	3	335.533	139.005	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
280	2023	4	335.416	139.012	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
281	2023	5	335.300	139.020	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
282	2023	6	335.183	139.026	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
283	2023	7	335.064	139.030	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
284	2023	8	334.942	139.034	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
285	2023	9	334.820	139.036	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
286	2023	10	334.698	139.036	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
287	2023	11	334.575	139.038	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
288	2023	12	334.452	139.038	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
289	2024	1	334.327	139.036	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
290	2024	2	334.204	139.036	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
291	2024	3	334.084	139.035	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
292	2024	4	333.959	139.035	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
293	2024	5	333.837	139.033	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
294	2024	6	333.712	139.033	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
295	2024	7	333.591	139.033	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
296	2024	8	333.468	139.035	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
297	2024	9	333.347	139.036	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
298	2024	10	333.227	139.038	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
299	2024	11	333.108	139.040	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
300	2024	12	332.989	139.043	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
301	2025	1	332.868	139.045	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
302	2025	2	332.754	139.046	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
303	2025	3	332.639	139.048	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
304	2025	4	332.522	139.050	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
305	2025	5	332.404	139.052	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
306	2025	6	332.286	139.053	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
307	2025	7	332.168	139.054	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	
308	2025	8	332.049	139.053	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	

Indiana Michigan Power Company - Michigan
Residential Customers
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model cr_imm
Dependent Variable cr_imm
Label Residential Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	30	6.3292E8	21097335	386.09	<.0001
Error	197	10764837	54643.84		
Corrected Total	227	6.4368E8			

Root MSE 233.76022 R-Square 0.98328
Dependent Mean 108198.768 Adj R-Sq 0.98073
Coeff Var 0.21605

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-42311.6	8146.955	-5.19	<.0001	Intercept
cr1	1	0.246129	0.046678	5.27	<.0001	Residential Customers, Lagged
hsnindx	1	123242.2	11148.73	11.05	<.0001	Service Area Housing Starts and Population Index
d3	1	115.7950	68.76522	1.68	0.0938	Binary Variable - March
d5	1	-41.6002	63.89955	-0.65	0.5158	Binary Variable - May
d6	1	8.873332	61.56609	0.14	0.8855	Binary Variable - June
d7	1	-20.6977	60.79112	-0.34	0.7339	Binary Variable - July
d8	1	65.62700	60.72533	1.08	0.2811	Binary Variable - August
d9	1	-5.24061	60.61034	-0.09	0.9312	Binary Variable - September
d10	1	66.40963	60.61836	1.10	0.2746	Binary Variable - October
d11	1	59.37056	60.60976	0.98	0.3285	Binary Variable - November
dfeb03	1	3063.350	240.4801	12.74	<.0001	Binary Variable - February 2003

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
dmar03	1	-720.160	287.7887	-2.50	0.0131	Binary Variable - March 2003
d04on	1	227.2532	106.4456	2.13	0.0340	Binary Variable - 2004 On
dmar05	1	952.7886	250.9332	3.80	0.0002	Binary Variable - March 2005
dfeb06	1	-1005.46	239.2572	-4.20	<.0001	Binary Variable - February 2006
dmar06	1	1947.177	250.2707	7.78	<.0001	Binary Variable - March 2006
dapr06	1	-247.576	252.3714	-0.98	0.3278	Binary Variable - April 2006
d07on	1	622.2091	73.80730	8.43	<.0001	Binary Variable - 2007 On
dfeb10	1	-1570.80	237.6036	-6.61	<.0001	Binary Variable - February 2010
dmar10	1	2698.524	253.7040	10.64	<.0001	Binary Variable - March 2010
dapr10	1	-339.704	261.6504	-1.30	0.1957	Binary Variable - April 2010
dmar11	1	3446.847	263.4442	13.08	<.0001	Binary Variable - March 2011
dfeb11	1	-2157.61	237.3581	-9.09	<.0001	Binary Variable - February 2011
jul11on	1	160.4210	57.21932	2.80	0.0056	Binary Variable - July 2011 On
may01	1	-2179.05	243.3910	-8.95	<.0001	Binary Variable - May 2001
d14on	1	-168.375	82.85917	-2.03	0.0435	Binary Variable - 2014 On
dec14on	1	166.2865	85.94443	1.93	0.0544	Binary Variable - December 2014 On
apr16	1	-2200.17	239.9115	-9.17	<.0001	Binary Variable - April 2016
may16	1	545.7284	263.3483	2.07	0.0395	Binary Variable - May 2016
d17on	1	110.1052	76.53395	1.44	0.1518	Binary Variable - 2017 On

Durbin-Watson	1.581748
Number of Observations	228
First-Order Autocorrelation	0.202327

Indiana Michigan Power Company - Michigan
Residential Customers
Model Residuals

time		Residual Values Sum
2000.000000	*****	344.302
2000.0833333	**	123.992
2000.1666667		-3.126
2000.2500000	***	-165.521
2000.3333333	**	-108.298
2000.4166667		-4.092
2000.5000000	**	82.621
2000.5833333		-23.647
2000.6666667		-22.754
2000.7500000	*	-59.044
2000.8333333	*	-32.401
2000.9166667	**	82.452
2001.0000000	**	112.485
2001.0833333		-6.976
2001.1666667		-24.023
2001.2500000	***	-166.168
2001.3333333		0.000
2001.4166667	*****	571.102
2001.5000000		-1.688
2001.5833333	**	94.791
2001.6666667		5.361
2001.7500000	*	-66.442
2001.8333333		10.411
2001.9166667	**	80.661
2002.0000000	***	149.276
2002.0833333	***	151.220
2002.1666667	****	-194.073
2002.2500000	*****	-1431.974
2002.3333333	*****	519.310
2002.4166667		-17.261
2002.5000000		4.731
2002.5833333	*	67.162
2002.6666667	****	186.644
2002.7500000		20.695
2002.8333333		-12.518
2002.9166667	*****	225.376
2003.0000000	*****	231.061
2003.0833333		0.000
2003.1666667		0.000
2003.2500000	*	-57.595
2003.3333333	**	96.614
2003.4166667	**	-124.588
2003.5000000	*	-46.100
2003.5833333	**	-116.299
2003.6666667	****	-177.796
2003.7500000	***	-133.135
2003.8333333	****	-194.902
2003.9166667	*	30.150
2004.0000000	*****	-278.723

Indiana Michigan Power Company - Michigan
Residential Customers
Model Residuals

2004.0833333	*****	-361.903
2004.1666667	*****	-265.912
2004.2500000	*****	-327.266
2004.3333333	*****	-379.118
2004.4166667	*****	-225.696
2004.5000000	*****	-299.764
2004.5833333	**	-122.977
2004.6666667	****	-202.804
2004.7500000		15.609
2004.8333333		-3.638
2004.9166667	***	137.224
2005.0000000	**	-113.561
2005.0833333	*****	-1072.177
2005.1666667		0.000
2005.2500000	**	119.200
2005.3333333	**	-115.811
2005.4166667	*	49.936
2005.5000000	*	-61.782
2005.5833333	****	188.459
2005.6666667		-4.727
2005.7500000	****	190.895
2005.8333333	*	-66.460
2005.9166667	*****	441.597
2006.0000000	*****	264.817
2006.0833333		0.000
2006.1666667		0.000
2006.2500000		0.000
2006.3333333	*****	314.607
2006.4166667	***	167.916
2006.5000000	****	194.656
2006.5833333	*****	452.355
2006.6666667	*****	237.307
2006.7500000	*****	438.377
2006.8333333	*****	249.895
2006.9166667	*****	439.468
2007.0000000	*****	-264.156
2007.0833333	*****	-252.089
2007.1666667	**	-89.236
2007.2500000	****	-201.738
2007.3333333	*****	-269.557
2007.4166667	**	-111.885
2007.5000000	****	-188.271
2007.5833333	**	-117.836
2007.6666667	*****	-254.708
2007.7500000	***	-160.287
2007.8333333	*****	-268.403
2007.9166667	*	-26.144
2008.0000000	*	-65.525
2008.0833333	**	77.882
2008.1666667	***	-146.721
2008.2500000	*****	-252.861
2008.3333333	***	-169.975

Indiana Michigan Power Company - Michigan
Residential Customers
Model Residuals

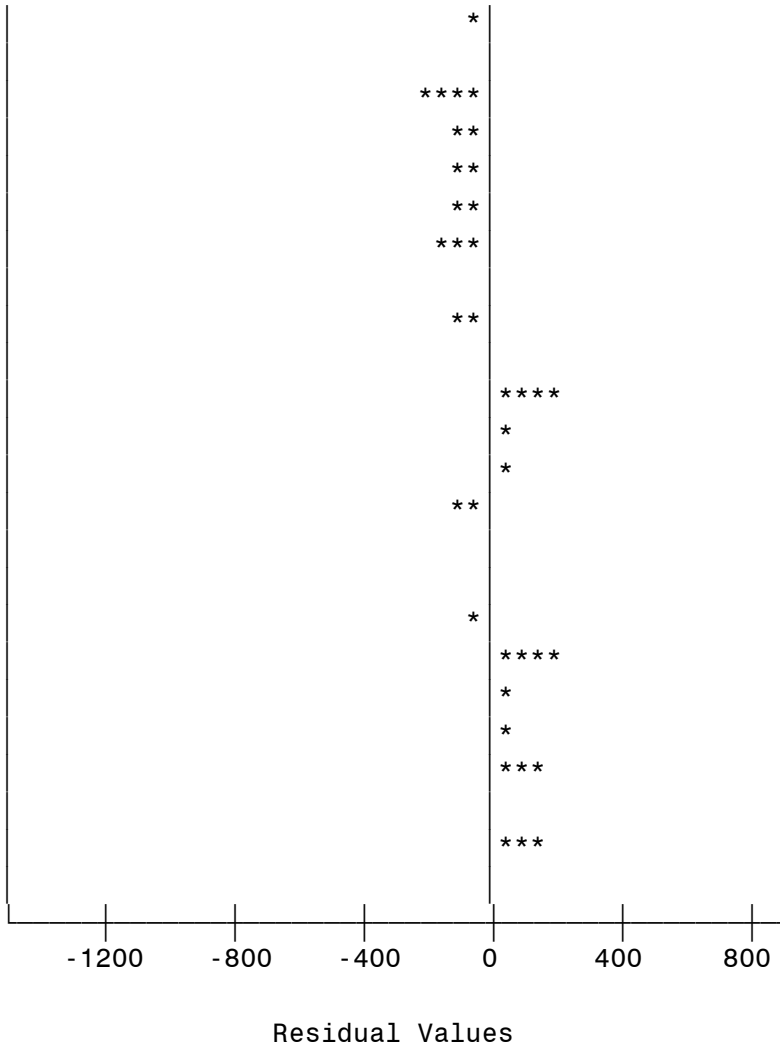
2008.4166667	****	-214.560
2008.5000000	*	-61.148
2008.5833333	***	-128.724
2008.6666667		-23.620
2008.7500000	*	-33.175
2008.8333333	*****	-263.636
2008.9166667	****	202.399
2009.0000000	*	26.235
2009.0833333	*****	-354.434
2009.1666667	*****	921.704
2009.2500000	**	-108.552
2009.3333333	*	54.160
2009.4166667		-7.172
2009.5000000	**	89.215
2009.5833333		15.422
2009.6666667	**	124.668
2009.7500000	**	79.708
2009.8333333	**	78.613
2009.9166667	*****	401.946
2010.0000000	*****	315.766
2010.0833333		0.000
2010.1666667		0.000
2010.2500000		0.000
2010.3333333	***	136.813
2010.4166667	*****	320.021
2010.5000000	*****	246.619
2010.5833333	***	132.151
2010.6666667	*****	232.748
2010.7500000	*****	241.925
2010.8333333	*****	353.642
2010.9166667	*****	341.208
2011.0000000	****	218.701
2011.0833333		0.000
2011.1666667		0.000
2011.2500000	*****	-687.879
2011.3333333	**	76.101
2011.4166667	*	34.645
2011.5000000	****	-220.537
2011.5833333	**	-99.912
2011.6666667	****	-208.293
2011.7500000	*****	-264.226
2011.8333333	*	-54.684
2011.9166667	*	-59.578
2012.0000000	**	-96.403
2012.0833333		-21.815
2012.1666667	****	-224.564
2012.2500000	***	-128.327
2012.3333333		13.950
2012.4166667	***	-127.800
2012.5000000	**	86.667
2012.5833333	**	89.951
2012.6666667		-2.697

Indiana Michigan Power Company - Michigan
Residential Customers
Model Residuals

2012.7500000	*	52.610
2012.8333333	*	53.913
2012.9166667	***	142.524
2013.0000000	*****	261.598
2013.0833333	**	80.731
2013.1666667		-5.127
2013.2500000	***	140.672
2013.3333333	*	39.548
2013.4166667	**	97.322
2013.5000000	**	93.334
2013.5833333		5.914
2013.6666667	*	26.536
2013.7500000	*	-36.908
2013.8333333	*	72.599
2013.9166667	*****	292.999
2014.0000000	*****	234.009
2014.0833333	***	162.101
2014.1666667	***	172.546
2014.2500000	*	73.051
2014.3333333		-8.939
2014.4166667	**	-102.828
2014.5000000	**	-102.701
2014.5833333	****	-183.849
2014.6666667	*	-64.535
2014.7500000	***	-132.343
2014.8333333	*	-46.511
2014.9166667	*	51.286
2015.0000000	*	-38.108
2015.0833333		11.327
2015.1666667		-7.526
2015.2500000	***	-162.435
2015.3333333	**	-117.728
2015.4166667	***	-168.092
2015.5000000	*	-32.536
2015.5833333	**	-119.413
2015.6666667	*	25.232
2015.7500000	*	-68.969
2015.8333333	*	34.607
2015.9166667	***	136.887
2016.0000000		-1.544
2016.0833333	**	124.523
2016.1666667		-8.560
2016.2500000		0.000
2016.3333333		0.000
2016.4166667		0.395
2016.5000000	**	82.299
2016.5833333		-8.717
2016.6666667	*	67.415
2016.7500000	***	-140.496
2016.8333333	**	83.818
2016.9166667	*****	256.335
2017.0000000	*	-33.716

Indiana Michigan Power Company - Michigan
Residential Customers
Model Residuals

2017.0833333	*	-32.022
2017.1666667		-23.946
2017.2500000	****	-196.066
2017.3333333	**	-91.950
2017.4166667	**	-100.532
2017.5000000	**	-75.689
2017.5833333	***	-156.031
2017.6666667		-1.078
2017.7500000	**	-87.860
2017.8333333		-13.499
2017.9166667	****	182.503
2018.0000000	*	65.375
2018.0833333	*	42.249
2018.1666667	**	-101.436
2018.2500000		22.809
2018.3333333		10.273
2018.4166667	*	-36.834
2018.5000000	****	210.075
2018.5833333	*	31.199
2018.6666667	*	57.101
2018.7500000	***	143.063
2018.8333333		19.153
2018.9166667	***	166.860



The SIMLIN Procedure

Inverse Coefficient Matrix for Endogenous Variables

Variable	cr_imm
cr_imm	1.0000

Reduced Form for Lagged Endogenous Variables

Variable	cr1
cr_imm	0.2461

Reduced Form for Exogenous Variables

Variable	hsnindx	d3	d5	d6	d7	d8	d9	d10
cr_imm	123242	115.7950	-41.6002	8.8733	-20.6977	65.6270	-5.2406	66.4096

Reduced Form for Exogenous Variables

Variable	d11	dfeb03	dmar03	d04on	dmar05	dfeb06	dmar06	dapr06
cr_imm	59.3706	3063	-720.1596	227.2532	952.7886	-1005	1947	-247.5765

Reduced Form for Exogenous Variables

Variable	d07on	dfeb10	dmar10	dapr10	dfeb11	dmar11	jul11on	may01
cr_imm	622.2091	-1571	2699	-339.7038	-2158	3447	160.4210	-2179

Reduced Form for Exogenous Variables

Variable	d14on	dec14on	apr16	may16	d17on	Intercept
cr_imm	-168.3746	166.2865	-2200	545.7284	110.1052	-42312

Indiana Michigan Power Company - Michigan
Residential Customers
Model Simulation

The SIMLIN Procedure

Fit Statistics

Variable	N	Mean Error	Mean Pct Error	Mean Abs Error	Mean Abs Pct Error	RMS Error	RMS Pct Error	Label
cr_imm	228	-0.2597	-0.000701	163.8445	0.15163	238.2226	0.2217	Residential Customers

Indiana Michigan Power Company - Michigan
 Residential Customers
 Actual and Forecast

YEAR	Residential Customers	Growth Rate
2000	104603.75	.
2001	104905.75	0.3
2002	105594.17	0.7
2003	106580.75	0.9
2004	107080.58	0.5
2005	107723.08	0.6
2006	108383.17	0.6
2007	108926.08	0.5
2008	109224.83	0.3
2009	109313.83	0.1
2010	109362.25	0.0
2011	109162.17	-0.2
2012	109019.25	-0.1
2013	109111.25	0.1
2014	108929.92	-0.2
2015	108946.75	0.0
2016	109016.83	0.1
2017	109718.00	0.6
2018	110174.17	0.4
2019	110208.89	0.0
2020	110258.56	0.0
2021	110325.03	0.1
2022	110462.85	0.1
2023	110662.68	0.2
2024	110843.61	0.2
2025	111012.01	0.2
2026	111177.66	0.1
2027	111326.05	0.1
2028	111438.80	0.1
2029	111517.40	0.1
2030	111571.58	0.0
2031	111626.03	0.0
2032	111667.42	0.0
2033	111699.10	0.0
2034	111715.83	0.0
2035	111719.07	0.0
2036	111697.52	0.0
2037	111659.16	0.0
2038	111627.51	0.0
2039	111592.74	0.0
2040	111554.51	0.0
2041	111508.85	0.0
2042	111439.02	-0.1
2043	111334.73	-0.1
2044	111199.44	-0.1
2045	111045.38	-0.1
2046	110878.56	-0.2
2047	110703.48	-0.2
2048	110527.08	-0.2

Indiana Michigan Power Company - Michigan
Residential Customers
Actual and Forecast

YEAR	Residential Customers	Growth Rate
2049	110353.93	-0.2
2050	110184.02	-0.2
2051	110017.34	-0.2
2052	109853.87	-0.1
2053	109693.60	-0.1
2054	109536.51	-0.1

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.500000
cc_imm	Commercial Customers	16562.18

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
1	1998	1	14223
2	1998	2	14090
3	1998	3	14205
4	1998	4	14229
5	1998	5	14160
6	1998	6	14270
7	1998	7	14240
8	1998	8	14230
9	1998	9	14297
10	1998	10	14367
11	1998	11	14273
12	1998	12	14497
13	1999	1	14343
14	1999	2	14298
15	1999	3	14514
16	1999	4	14453
17	1999	5	14508
18	1999	6	14544
19	1999	7	14610
20	1999	8	14593
21	1999	9	14574
22	1999	10	14626
23	1999	11	14643
24	1999	12	14468
25	2000	1	14637
26	2000	2	14673
27	2000	3	14721
28	2000	4	14730
29	2000	5	14737
30	2000	6	14791
31	2000	7	14815
32	2000	8	14914
33	2000	9	14911
34	2000	10	14890
35	2000	11	14910
36	2000	12	14952
37	2001	1	14961
38	2001	2	14943
39	2001	3	14981
40	2001	4	14930
41	2001	5	14742
42	2001	6	15145
43	2001	7	15120
44	2001	8	15202
45	2001	9	15185
46	2001	10	15188
47	2001	11	15203
48	2001	12	15207
49	2002	1	15180
50	2002	2	15230

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
51	2002	3	15098
52	2002	4	15114
53	2002	5	15316
54	2002	6	15356
55	2002	7	15388
56	2002	8	15485
57	2002	9	15468
58	2002	10	15418
59	2002	11	15462
60	2002	12	15445
61	2003	1	15422
62	2003	2	15812
63	2003	3	15529
64	2003	4	15536
65	2003	5	15646
66	2003	6	15675
67	2003	7	15688
68	2003	8	15776
69	2003	9	15742
70	2003	10	15767
71	2003	11	15778
72	2003	12	15802
73	2004	1	15870
74	2004	2	15816
75	2004	3	16049
76	2004	4	15988
77	2004	5	15997
78	2004	6	16060
79	2004	7	16121
80	2004	8	16128
81	2004	9	16143
82	2004	10	16234
83	2004	11	16107
84	2004	12	16187
85	2005	1	16129
86	2005	2	16101
87	2005	3	16339
88	2005	4	16481
89	2005	5	16387
90	2005	6	16473
91	2005	7	16472
92	2005	8	16616
93	2005	9	16504
94	2005	10	16606
95	2005	11	16515
96	2005	12	16616
97	2006	1	16671
98	2006	2	16478
99	2006	3	16847
100	2006	4	16657

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
101	2006	5	16764
102	2006	6	16717
103	2006	7	16749
104	2006	8	16863
105	2006	9	16798
106	2006	10	16853
107	2006	11	16845
108	2006	12	16815
109	2007	1	16841
110	2007	2	16701
111	2007	3	17023
112	2007	4	16889
113	2007	5	16870
114	2007	6	16902
115	2007	7	16973
116	2007	8	16999
117	2007	9	16995
118	2007	10	17032
119	2007	11	16970
120	2007	12	16936
121	2008	1	16965
122	2008	2	17023
123	2008	3	16977
124	2008	4	17020
125	2008	5	17016
126	2008	6	17082
127	2008	7	17101
128	2008	8	17077
129	2008	9	17176
130	2008	10	17154
131	2008	11	17038
132	2008	12	17076
133	2009	1	17085
134	2009	2	17043
135	2009	3	17264
136	2009	4	17089
137	2009	5	17088
138	2009	6	17172
139	2009	7	17190
140	2009	8	17195
141	2009	9	17185
142	2009	10	17208
143	2009	11	17179
144	2009	12	17196
145	2010	1	17161
146	2010	2	16856
147	2010	3	17563
148	2010	4	17190
149	2010	5	17135
150	2010	6	17374

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
151	2010	7	17240
152	2010	8	17362
153	2010	9	17249
154	2010	10	17321
155	2010	11	17348
156	2010	12	17115
157	2011	1	17168
158	2011	2	16952
159	2011	3	17999
160	2011	4	17307
161	2011	5	17340
162	2011	6	17379
163	2011	7	17310
164	2011	8	17509
165	2011	9	17387
166	2011	10	17368
167	2011	11	17367
168	2011	12	17350
169	2012	1	17408
170	2012	2	17360
171	2012	3	17346
172	2012	4	17341
173	2012	5	17381
174	2012	6	17416
175	2012	7	17425
176	2012	8	17455
177	2012	9	17454
178	2012	10	17456
179	2012	11	17450
180	2012	12	17431
181	2013	1	17501
182	2013	2	17441
183	2013	3	17423
184	2013	4	17439
185	2013	5	17443
186	2013	6	17464
187	2013	7	17509
188	2013	8	17516
189	2013	9	17516
190	2013	10	17511
191	2013	11	17523
192	2013	12	17535
193	2014	1	17516
194	2014	2	17491
195	2014	3	17488
196	2014	4	17465
197	2014	5	17478
198	2014	6	17516
199	2014	7	17521
200	2014	8	17544

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
201	2014	9	17544
202	2014	10	17513
203	2014	11	17484
204	2014	12	17446
205	2015	1	17608
206	2015	2	17520
207	2015	3	17533
208	2015	4	17528
209	2015	5	17515
210	2015	6	17568
211	2015	7	17593
212	2015	8	17577
213	2015	9	17607
214	2015	10	17589
215	2015	11	17583
216	2015	12	17541
217	2016	1	17527
218	2016	2	17568
219	2016	3	17608
220	2016	4	17162
221	2016	5	17580
222	2016	6	17637
223	2016	7	17625
224	2016	8	17674
225	2016	9	17670
226	2016	10	17675
227	2016	11	17652
228	2016	12	17653
229	2017	1	17652
230	2017	2	17601
231	2017	3	17611
232	2017	4	17583
233	2017	5	17611
234	2017	6	17647
235	2017	7	17638
236	2017	8	17669
237	2017	9	17694
238	2017	10	17627
239	2017	11	17612
240	2017	12	17602
241	2018	1	17610
242	2018	2	17649
243	2018	3	17595
244	2018	4	18997
245	2018	5	19856
246	2018	6	17668
247	2018	7	17690
248	2018	8	17713
249	2018	9	17682
250	2018	10	17796

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
251	2018	11	17701
252	2018	12	17671
253	2019	1	.
254	2019	2	.
255	2019	3	.
256	2019	4	.
257	2019	5	.
258	2019	6	.
259	2019	7	.
260	2019	8	.
261	2019	9	.
262	2019	10	.
263	2019	11	.
264	2019	12	.
265	2020	1	.
266	2020	2	.
267	2020	3	.
268	2020	4	.
269	2020	5	.
270	2020	6	.
271	2020	7	.
272	2020	8	.
273	2020	9	.
274	2020	10	.
275	2020	11	.
276	2020	12	.
277	2021	1	.
278	2021	2	.
279	2021	3	.
280	2021	4	.
281	2021	5	.
282	2021	6	.
283	2021	7	.
284	2021	8	.
285	2021	9	.
286	2021	10	.
287	2021	11	.
288	2021	12	.
289	2022	1	.
290	2022	2	.
291	2022	3	.
292	2022	4	.
293	2022	5	.
294	2022	6	.
295	2022	7	.
296	2022	8	.
297	2022	9	.
298	2022	10	.
299	2022	11	.
300	2022	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
301	2023	1	.
302	2023	2	.
303	2023	3	.
304	2023	4	.
305	2023	5	.
306	2023	6	.
307	2023	7	.
308	2023	8	.
309	2023	9	.
310	2023	10	.
311	2023	11	.
312	2023	12	.
313	2024	1	.
314	2024	2	.
315	2024	3	.
316	2024	4	.
317	2024	5	.
318	2024	6	.
319	2024	7	.
320	2024	8	.
321	2024	9	.
322	2024	10	.
323	2024	11	.
324	2024	12	.
325	2025	1	.
326	2025	2	.
327	2025	3	.
328	2025	4	.
329	2025	5	.
330	2025	6	.
331	2025	7	.
332	2025	8	.
333	2025	9	.
334	2025	10	.
335	2025	11	.
336	2025	12	.
337	2026	1	.
338	2026	2	.
339	2026	3	.
340	2026	4	.
341	2026	5	.
342	2026	6	.
343	2026	7	.
344	2026	8	.
345	2026	9	.
346	2026	10	.
347	2026	11	.
348	2026	12	.
349	2027	1	.
350	2027	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
351	2027	3	.
352	2027	4	.
353	2027	5	.
354	2027	6	.
355	2027	7	.
356	2027	8	.
357	2027	9	.
358	2027	10	.
359	2027	11	.
360	2027	12	.
361	2028	1	.
362	2028	2	.
363	2028	3	.
364	2028	4	.
365	2028	5	.
366	2028	6	.
367	2028	7	.
368	2028	8	.
369	2028	9	.
370	2028	10	.
371	2028	11	.
372	2028	12	.
373	2029	1	.
374	2029	2	.
375	2029	3	.
376	2029	4	.
377	2029	5	.
378	2029	6	.
379	2029	7	.
380	2029	8	.
381	2029	9	.
382	2029	10	.
383	2029	11	.
384	2029	12	.
385	2030	1	.
386	2030	2	.
387	2030	3	.
388	2030	4	.
389	2030	5	.
390	2030	6	.
391	2030	7	.
392	2030	8	.
393	2030	9	.
394	2030	10	.
395	2030	11	.
396	2030	12	.
397	2031	1	.
398	2031	2	.
399	2031	3	.
400	2031	4	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
401	2031	5	.
402	2031	6	.
403	2031	7	.
404	2031	8	.
405	2031	9	.
406	2031	10	.
407	2031	11	.
408	2031	12	.
409	2032	1	.
410	2032	2	.
411	2032	3	.
412	2032	4	.
413	2032	5	.
414	2032	6	.
415	2032	7	.
416	2032	8	.
417	2032	9	.
418	2032	10	.
419	2032	11	.
420	2032	12	.
421	2033	1	.
422	2033	2	.
423	2033	3	.
424	2033	4	.
425	2033	5	.
426	2033	6	.
427	2033	7	.
428	2033	8	.
429	2033	9	.
430	2033	10	.
431	2033	11	.
432	2033	12	.
433	2034	1	.
434	2034	2	.
435	2034	3	.
436	2034	4	.
437	2034	5	.
438	2034	6	.
439	2034	7	.
440	2034	8	.
441	2034	9	.
442	2034	10	.
443	2034	11	.
444	2034	12	.
445	2035	1	.
446	2035	2	.
447	2035	3	.
448	2035	4	.
449	2035	5	.
450	2035	6	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
451	2035	7	.
452	2035	8	.
453	2035	9	.
454	2035	10	.
455	2035	11	.
456	2035	12	.
457	2036	1	.
458	2036	2	.
459	2036	3	.
460	2036	4	.
461	2036	5	.
462	2036	6	.
463	2036	7	.
464	2036	8	.
465	2036	9	.
466	2036	10	.
467	2036	11	.
468	2036	12	.
469	2037	1	.
470	2037	2	.
471	2037	3	.
472	2037	4	.
473	2037	5	.
474	2037	6	.
475	2037	7	.
476	2037	8	.
477	2037	9	.
478	2037	10	.
479	2037	11	.
480	2037	12	.
481	2038	1	.
482	2038	2	.
483	2038	3	.
484	2038	4	.
485	2038	5	.
486	2038	6	.
487	2038	7	.
488	2038	8	.
489	2038	9	.
490	2038	10	.
491	2038	11	.
492	2038	12	.
493	2039	1	.
494	2039	2	.
495	2039	3	.
496	2039	4	.
497	2039	5	.
498	2039	6	.
499	2039	7	.
500	2039	8	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
501	2039	9	.
502	2039	10	.
503	2039	11	.
504	2039	12	.
505	2040	1	.
506	2040	2	.
507	2040	3	.
508	2040	4	.
509	2040	5	.
510	2040	6	.
511	2040	7	.
512	2040	8	.
513	2040	9	.
514	2040	10	.
515	2040	11	.
516	2040	12	.
517	2041	1	.
518	2041	2	.
519	2041	3	.
520	2041	4	.
521	2041	5	.
522	2041	6	.
523	2041	7	.
524	2041	8	.
525	2041	9	.
526	2041	10	.
527	2041	11	.
528	2041	12	.
529	2042	1	.
530	2042	2	.
531	2042	3	.
532	2042	4	.
533	2042	5	.
534	2042	6	.
535	2042	7	.
536	2042	8	.
537	2042	9	.
538	2042	10	.
539	2042	11	.
540	2042	12	.
541	2043	1	.
542	2043	2	.
543	2043	3	.
544	2043	4	.
545	2043	5	.
546	2043	6	.
547	2043	7	.
548	2043	8	.
549	2043	9	.
550	2043	10	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
551	2043	11	.
552	2043	12	.
553	2044	1	.
554	2044	2	.
555	2044	3	.
556	2044	4	.
557	2044	5	.
558	2044	6	.
559	2044	7	.
560	2044	8	.
561	2044	9	.
562	2044	10	.
563	2044	11	.
564	2044	12	.
565	2045	1	.
566	2045	2	.
567	2045	3	.
568	2045	4	.
569	2045	5	.
570	2045	6	.
571	2045	7	.
572	2045	8	.
573	2045	9	.
574	2045	10	.
575	2045	11	.
576	2045	12	.
577	2046	1	.
578	2046	2	.
579	2046	3	.
580	2046	4	.
581	2046	5	.
582	2046	6	.
583	2046	7	.
584	2046	8	.
585	2046	9	.
586	2046	10	.
587	2046	11	.
588	2046	12	.
589	2047	1	.
590	2047	2	.
591	2047	3	.
592	2047	4	.
593	2047	5	.
594	2047	6	.
595	2047	7	.
596	2047	8	.
597	2047	9	.
598	2047	10	.
599	2047	11	.
600	2047	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
601	2048	1	.
602	2048	2	.
603	2048	3	.
604	2048	4	.
605	2048	5	.
606	2048	6	.
607	2048	7	.
608	2048	8	.
609	2048	9	.
610	2048	10	.
611	2048	11	.
612	2048	12	.
613	2049	1	.
614	2049	2	.
615	2049	3	.
616	2049	4	.
617	2049	5	.
618	2049	6	.
619	2049	7	.
620	2049	8	.
621	2049	9	.
622	2049	10	.
623	2049	11	.
624	2049	12	.
625	2050	1	.
626	2050	2	.
627	2050	3	.
628	2050	4	.
629	2050	5	.
630	2050	6	.
631	2050	7	.
632	2050	8	.
633	2050	9	.
634	2050	10	.
635	2050	11	.
636	2050	12	.
637	2051	1	.
638	2051	2	.
639	2051	3	.
640	2051	4	.
641	2051	5	.
642	2051	6	.
643	2051	7	.
644	2051	8	.
645	2051	9	.
646	2051	10	.
647	2051	11	.
648	2051	12	.
649	2052	1	.
650	2052	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cc_imm
651	2052	3	.
652	2052	4	.
653	2052	5	.
654	2052	6	.
655	2052	7	.
656	2052	8	.
657	2052	9	.
658	2052	10	.
659	2052	11	.
660	2052	12	.
661	2053	1	.
662	2053	2	.
663	2053	3	.
664	2053	4	.
665	2053	5	.
666	2053	6	.
667	2053	7	.
668	2053	8	.
669	2053	9	.
670	2053	10	.
671	2053	11	.
672	2053	12	.
673	2054	1	.
674	2054	2	.
675	2054	3	.
676	2054	4	.
677	2054	5	.
678	2054	6	.
679	2054	7	.
680	2054	8	.
681	2054	9	.
682	2054	10	.
683	2054	11	.
684	2054	12	.

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.5000000
N_IMM	Service Area Population	327.0986335
gdp_imm	Service Area Gross Regional Product	13707.24
d02on	Binary Variable - 2002 On	0.9298246
d05on	Binary Variable - 2005 On	0.8771930
d06on	Binary Variable - 2006 On	0.8596491
d08on	Binary Variable - 2008 On	0.8245614
d09on	Binary Variable - 2009 On	0.8070175
dmar11	Binary Variable - March 2011	0.0014620
d3	Binary Variable - March	0.0833333
d4	Binary Variable - April	0.0833333
d5	Binary Variable - May	0.0833333
d6	Binary Variable - June	0.0833333
d7	Binary Variable - July	0.0833333
d8	Binary Variable - August	0.0833333
d9	Binary Variable - September	0.0833333
d10	Binary Variable - October	0.0833333
d11	Binary Variable - November	0.0833333
d12on	Binary Variable - 2012 On	0.7543860
d15on	Binary Variable - 2015 On	0.7017544
djan13on	Binary Variable - 2013 On Januarys	0.0614035
dfeb13on	Binary Variable - 2013 On Februarys	0.0614035
apr16	Binary Variable - April 2016	0.0014620
d17on	Binary Variable - 2017 On	0.6666667
may18	Binary Variable - May 2018	0.0014620
apr18	Binary Variable - April 2018	0.0014620

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 EXOGENOUS VARIABLES

```

                                d d
                                j f
                                a e
                                d d n b a d m a
                                1 1 1 1 p 1 a p
                                d d 2 5 3 3 r 7 y r
                                1 1 o o o o 1 o 1 1
                                n n n n n 6 n 8 8
        M        N        g        d d d d d m
        O        _        _        0 0 0 0 0 a
        E        N        I        2 5 6 8 9 r
        A        T        M        o o o o o 1 d d d d d d d 1 1 o o o o 1 o 1 1
        R        H        M        m        n n n n n 1 3 4 5 6 7 8 9 0 1 n n n n n 6 n 8 8
    
```

Year	Month	Revenue	Usage	Rate	1	2	3	4	5	6	7	8	9	0	1	n	n	n	n	6	n	8	8
87	2005	3	350.630	11838.17	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
88	2005	4	350.481	11834.29	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
89	2005	5	350.332	11830.86	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
90	2005	6	350.189	11828.40	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
91	2005	7	350.052	11827.41	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
92	2005	8	349.920	11828.16	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
93	2005	9	349.799	11830.63	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
94	2005	10	349.685	11834.78	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
95	2005	11	349.580	11840.57	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
96	2005	12	349.483	11847.98	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	2006	1	349.390	11857.13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	2006	2	349.310	11867.30	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	2006	3	349.239	11878.91	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
100	2006	4	349.170	11892.36	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
101	2006	5	349.110	11907.26	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
102	2006	6	349.057	11923.56	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
103	2006	7	349.012	11941.24	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
104	2006	8	348.973	11960.46	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
105	2006	9	348.943	11980.31	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
106	2006	10	348.917	12000.82	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
107	2006	11	348.897	12021.70	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
108	2006	12	348.884	12042.66	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	2007	1	348.874	12063.76	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	2007	2	348.868	12083.38	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	2007	3	348.866	12102.27	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
112	2007	4	348.866	12120.78	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
113	2007	5	348.870	12137.96	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
114	2007	6	348.876	12153.54	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
115	2007	7	348.881	12167.17	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
116	2007	8	348.890	12178.15	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
117	2007	9	348.897	12184.69	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
118	2007	10	348.902	12185.45	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
119	2007	11	348.905	12179.03	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
120	2007	12	348.903	12163.82	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	2008	1	348.897	12137.91	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	2008	2	348.883	12101.39	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	2008	3	348.863	12051.94	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
124	2008	4	348.835	11987.24	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
125	2008	5	348.795	11906.29	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
126	2008	6	348.745	11807.78	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
127	2008	7	348.682	11690.27	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
128	2008	8	348.607	11553.14	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
129	2008	9	348.521	11405.41	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

				g															d d									
				d															j f									
				p															a e									
				—	d d d d d m															d d n b a d m a								
O	Y	M	N	—	0 0 0 0 0 a															1 1 1 1 p 1 a p								
b	E	N	I	i	2 5 6 8 9 r															d d 2 5 3 3 r 7 y r								
s	A	T	M	m	o o o o o 1	d d d d d d d d	1 1	o o o o	1 o 1 1																			
	R	H	M	m	n n n n n 1	3 4 5 6 7 8 9 0	1 n n n n n	6 n 8 8																				
603	2048	3	298.039	16785.24	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
604	2048	4	297.892	16797.22	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
605	2048	5	297.744	16809.27	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
606	2048	6	297.598	16821.40	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	
607	2048	7	297.450	16833.62	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	
608	2048	8	297.303	16846.12	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	
609	2048	9	297.157	16858.52	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	
610	2048	10	297.012	16871.01	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	
611	2048	11	296.868	16883.61	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0
612	2048	12	296.723	16896.31	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
613	2049	1	296.545	16901.37	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	
614	2049	2	296.398	16913.66	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	
615	2049	3	296.252	16926.05	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
616	2049	4	296.109	16938.58	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
617	2049	5	295.965	16951.24	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
618	2049	6	295.823	16964.03	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	
619	2049	7	295.678	16976.97	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	
620	2049	8	295.536	16990.25	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	
621	2049	9	295.394	17003.47	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	
622	2049	10	295.254	17016.85	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	
623	2049	11	295.115	17030.38	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0
624	2049	12	294.974	17044.07	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
625	2050	1	294.771	17042.12	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	
626	2050	2	294.623	17055.04	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	
627	2050	3	294.477	17068.13	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
628	2050	4	294.338	17081.22	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
629	2050	5	294.198	17094.49	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
630	2050	6	294.060	17107.96	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	
631	2050	7	293.918	17121.62	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	
632	2050	8	293.780	17135.70	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	
633	2050	9	293.642	17149.76	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	
634	2050	10	293.507	17164.03	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	
635	2050	11	293.373	17178.51	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0
636	2050	12	293.236	17193.20	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
637	2051	1	293.008	17184.13	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	
638	2051	2	292.859	17197.70	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	
639	2051	3	292.713	17211.48	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
640	2051	4	292.578	17225.14	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
641	2051	5	292.441	17239.04	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
642	2051	6	292.307	17253.19	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	
643	2051	7	292.168	17267.59	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	
644	2051	8	292.036	17282.48	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	
645	2051	9	291.901	17297.39	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 EXOGENOUS VARIABLES

					g																d d												
					d																j f												
					p																a e												
					_																d d n b a d m a												
O	Y	M	N	I	_																1 1 1 1 p 1 a p												
b	A	T	M		i	2	5	6	8	9	r																d d 2 5 3 3 r 7 y r						
s	R	H	M		m	o	o	o	o	o	1	d	d	d	d	d	d	d	d	1	1	o	o	o	o	1	o	1	1				
					m	n	n	n	n	n	1	3	4	5	6	7	8	9	0	1	n	n	n	n	6	n	8	8					
646	2051	10	291.771	17312.57	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0				
647	2051	11	291.642	17328.00	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0				
648	2051	12	291.508	17343.72	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0				
649	2052	1	291.256	17327.41	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	1	0				
650	2052	2	291.106	17341.64	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0				
651	2052	3	290.960	17356.14	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
652	2052	4	290.828	17370.37	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
653	2052	5	290.696	17384.90	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
654	2052	6	290.566	17399.74	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
655	2052	7	290.429	17414.90	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
656	2052	8	290.302	17430.60	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	1	0			
657	2052	9	290.171	17446.37	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	1	0			
658	2052	10	290.046	17462.47	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0			
659	2052	11	289.921	17478.88	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0		
660	2052	12	289.792	17495.63	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
661	2053	1	289.515	17471.98	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	1	0	0			
662	2053	2	289.364	17486.88	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	0			
663	2053	3	289.218	17502.09	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
664	2053	4	289.090	17516.91	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
665	2053	5	288.962	17532.08	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
666	2053	6	288.835	17547.63	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
667	2053	7	288.701	17563.54	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
668	2053	8	288.579	17580.08	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
669	2053	9	288.452	17596.71	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0		
670	2053	10	288.331	17613.76	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	1	0	
671	2053	11	288.211	17631.16	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	
672	2053	12	288.085	17648.96	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
673	2054	1	287.785	17617.84	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	1	0	0	0		
674	2054	2	287.633	17633.42	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	0	0		
675	2054	3	287.487	17649.37	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
676	2054	4	287.363	17664.78	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
677	2054	5	287.238	17680.60	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
678	2054	6	287.115	17696.86	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
679	2054	7	286.985	17713.54	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
680	2054	8	286.866	17730.92	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
681	2054	9	286.743	17748.44	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	
682	2054	10	286.627	17766.44	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	1	0	0
683	2054	11	286.512	17784.84	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	0
684	2054	12	286.390	17803.71	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model cc_imm
 Dependent Variable cc_imm
 Label Commercial Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	3.2351E8	13479689	390.48	<.0001
Error	227	7836319	34521.23		
Corrected Total	251	3.3135E8			

Root MSE 185.79890 R-Square 0.97635
 Dependent Mean 16562.1825 Adj R-Sq 0.97385
 Coeff Var 1.12183

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	8558.505	822.6331	10.40	<.0001	Intercept
ngdpindx	1	6183.968	842.3501	7.34	<.0001	Service Area Population and Gross Regional Product Index
d02on	1	919.2082	43.58573	21.09	<.0001	Binary Variable - 2002 On
d05on	1	708.7638	62.14905	11.40	<.0001	Binary Variable - 2005 On
d06on	1	361.2034	65.95506	5.48	<.0001	Binary Variable - 2006 On
d08on	1	320.2138	67.16092	4.77	<.0001	Binary Variable - 2008 On
d09on	1	371.1459	67.59888	5.49	<.0001	Binary Variable - 2009 On
d3	1	60.27943	49.31047	1.22	0.2228	Binary Variable - March
d4	1	10.96816	50.00474	0.22	0.8266	Binary Variable - April
d5	1	18.06799	49.15101	0.37	0.7135	Binary Variable - May
d6	1	88.36948	48.37440	1.83	0.0690	Binary Variable - June

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
d7	1	92.98563	48.37954	1.92	0.0559	Binary Variable - July
d8	1	141.6267	48.38715	2.93	0.0038	Binary Variable - August
d9	1	124.3266	48.39556	2.57	0.0108	Binary Variable - September
d10	1	142.4224	48.40373	2.94	0.0036	Binary Variable - October
d11	1	114.6131	48.41054	2.37	0.0187	Binary Variable - November
dmar11	1	671.8881	193.4754	3.47	0.0006	Binary Variable - March 2011
d12on	1	213.2212	44.72025	4.77	<.0001	Binary Variable - 2012 On
djan13on	1	104.4210	83.47810	1.25	0.2123	Binary Variable - 2013 On Januarys
dfeb13on	1	74.83184	83.45362	0.90	0.3708	Binary Variable - 2013 On Februarys
apr16	1	-371.508	194.7090	-1.91	0.0577	Binary Variable - April 2016
d15on	1	31.88076	51.21583	0.62	0.5343	Binary Variable - 2015 On
d17on	1	-41.3406	56.98008	-0.73	0.4689	Binary Variable - 2017 On
apr18	1	1416.937	194.8772	7.27	<.0001	Binary Variable - April 2018
may18	1	2262.174	194.6399	11.62	<.0001	Binary Variable - May 2018

Durbin-Watson	0.567632
Number of Observations	252
First-Order Autocorrelation	0.715422

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

time		Residual Values Sum
1998.000000	*****	-97.4253
1998.0833333	*****	-228.1476
1998.1666667	*****	-173.4446
1998.2500000	*****	-103.0868
1998.3333333	*****	-185.7229
1998.4166667	*****	-156.6192
1998.5000000	*****	-206.4596
1998.5833333	*****	-285.2422
1998.6666667	*****	-224.6576
1998.7500000	*****	-199.6667
1998.8333333	*****	-295.1926
1998.9166667	*	12.3779
1999.0000000	*****	-163.6222
1999.0833333	*****	-243.7240
1999.1666667	*****	-123.3100
1999.2500000	*****	-170.9229
1999.3333333	*****	-157.4806
1999.4166667	*****	-223.8909
1999.5000000	*****	-191.4385
1999.5833333	*****	-282.6968
1999.6666667	*****	-305.8119
1999.7500000	*****	-289.4723
1999.8333333	*****	-258.3497
1999.9166667	*****	-328.4819
2000.0000000	*****	-154.9894
2000.0833333	*****	-124.8541
2000.1666667	*****	-139.6353
2000.2500000	****	-80.3280
2000.3333333	****	-75.6193
2000.4166667	****	-83.0536
2000.5000000	***	-50.5535
2000.5833333	*	17.1545
2000.6666667	***	51.7336
2000.7500000	**	35.3039
2000.8333333	*****	107.3507
2000.9166667	*****	288.9636
2001.0000000	*****	333.8703
2001.0833333	*****	335.3697
2001.1666667	*****	330.5517
2001.2500000	*****	344.1943
2001.3333333	*****	160.9570
2001.4166667	*****	501.4893
2001.5000000	*****	475.0054
2001.5833333	*****	506.7909
2001.6666667	*****	501.5505
2001.7500000	*****	477.6094
2001.8333333	*****	509.0759
2001.9166667	*****	614.5515
2002.0000000	*****	-335.5959

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2002.0833333	*****	-303.5676
2002.1666667	*****	-514.0518
2002.2500000	*****	-466.9699
2002.3333333	*****	-288.8411
2002.4166667	*****	-333.5345
2002.5000000	*****	-317.3346
2002.5833333	*****	-276.7912
2002.6666667	*****	-281.0215
2002.7500000	*****	-350.9538
2002.8333333	*****	-278.7205
2002.9166667	*****	-178.8423
2003.0000000	*****	-187.6668
2003.0833333	*****	202.8605
2003.1666667	*****	-139.8952
2003.2500000	****	-83.3428
2003.3333333	*	19.2118
2003.4166667	*	-23.2504
2003.5000000	*	-17.0910
2003.5833333	*	18.8695
2003.6666667		-2.0128
2003.7500000		0.0535
2003.8333333	**	33.7046
2003.9166667	*****	167.0340
2004.0000000	*****	240.2332
2004.0833333	*****	177.5121
2004.1666667	*****	341.5255
2004.2500000	*****	321.3442
2004.3333333	*****	315.5619
2004.4166667	*****	301.8003
2004.5000000	*****	353.3505
2004.5833333	*****	308.5884
2004.6666667	*****	339.4547
2004.7500000	*****	412.3726
2004.8333333	*****	314.4760
2004.9166667	*****	511.5304
2005.0000000	*****	-241.4450
2005.0833333	*****	-269.4450
2005.1666667	*****	-91.7245
2005.2500000	*****	99.5868
2005.3333333		-1.5130
2005.4166667	*	14.1855
2005.5000000		8.5693
2005.5833333	*****	103.9283
2005.6666667		9.2283
2005.7500000	*****	93.1326
2005.8333333	*	29.9419
2005.9166667	*****	245.5550
2006.0000000	***	-50.3411
2006.0833333	*****	-247.3799
2006.1666667	***	56.6977
2006.2500000	****	-89.2232
2006.3333333		5.1023

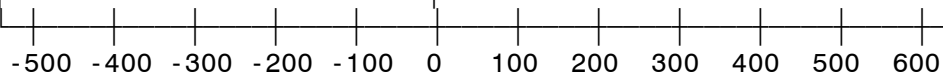
2006.4166667	*****	-117.8986
2006.5000000	*****	-96.2066
2006.5833333	**	-36.4894
2006.6666667	****	-89.5283
2006.7500000	***	-57.6592
2006.8333333	**	-42.5190
2006.9166667	**	37.8450
2007.0000000	****	70.2664
2007.0833333	****	-76.9038
2007.1666667	*****	177.6481
2007.2500000	****	85.7768
2007.3333333	***	52.9251
2007.4166667		8.5817
2007.5000000	***	69.8880
2007.5833333	**	43.3374
2007.6666667	***	54.4625
2007.7500000	****	73.2347
2007.8333333	**	41.3262
2007.9166667	*****	127.0573
2008.0000000	*****	-145.5064
2008.0833333	****	-79.9513
2008.1666667	*****	-175.3945
2008.2500000	***	-68.2717
2008.3333333	***	-60.0784
2008.4166667	**	-40.0926
2008.5000000		4.1054
2008.5833333	**	-32.9945
2008.6666667	*****	122.2406
2008.7500000	*****	123.6957
2008.8333333	****	78.3694
2008.9166667	*****	273.8782
2009.0000000	**	-35.4763
2009.0833333	**	-43.3576
2009.1666667	*****	147.3880
2009.2500000	**	47.4330
2009.3333333	***	58.4509
2009.4166667	****	83.5931
2009.5000000	*****	99.6092
2009.5833333	**	49.7017
2009.6666667	**	43.3044
2009.7500000	*	28.3181
2009.8333333		2.5043
2009.9166667	*****	106.0467
2010.0000000	***	50.8717
2010.0833333	*****	-287.7464
2010.1666667	*****	325.3137
2010.2500000	**	-31.7906
2010.3333333	*****	-124.4103
2010.4166667	*	18.1713
2010.5000000	*****	-140.7067
2010.5833333	****	-81.4378
2010.6666667	*****	-185.1016

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2010.750000	*****	-133.8766
2010.8333333	****	-77.0824
2010.9166667	*****	-189.4196
2011.000000	*****	-116.4702
2011.0833333	*****	-324.4576
2011.1666667		0.0000
2011.250000	**	40.3643
2011.3333333	****	78.2433
2011.4166667	***	59.2867
2011.500000		-2.0322
2011.5833333	*****	160.4863
2011.6666667	***	67.3682
2011.750000	**	41.4094
2011.8333333	****	78.8754
2011.9166667	*****	186.6262
2012.000000	***	51.4578
2012.0833333		8.4048
2012.1666667	***	-62.1175
2012.250000	*	-15.1584
2012.3333333	*	19.3206
2012.4166667	*	-15.3237
2012.500000	*	-11.1202
2012.5833333	**	-30.6923
2012.6666667	*	-15.9363
2012.750000	**	-34.0917
2012.8333333	*	-14.7619
2012.9166667	****	78.0679
2013.000000	***	50.9125
2013.0833333	*	13.7344
2013.1666667		2.9542
2013.250000	***	60.3423
2013.3333333	**	49.2036
2013.4166667		-7.9662
2013.500000	*	24.9594
2013.5833333	*	-23.6841
2013.6666667	*	-12.6319
2013.750000	**	-41.3062
2013.8333333		-6.3557
2013.9166667	*****	116.1838
2014.000000		-0.3190
2014.0833333		-1.9462
2014.1666667		3.6997
2014.250000	*	24.3652
2014.3333333	*	25.2985
2014.4166667	*	-11.0775
2014.500000	*	-13.6812
2014.5833333	**	-41.2355
2014.6666667	*	-24.7866
2014.750000	****	-73.8911
2014.8333333	****	-74.3683
2014.9166667		3.5467
2015.000000	**	41.1710

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 MODEL RESIDUALS

2015.0833333	*	-19.1610
2015.1666667		6.0476
2015.2500000	**	47.5262
2015.3333333	*	24.1603
2015.4166667		3.2405
2015.5000000	*	19.6071
2015.5833333	**	-49.4386
2015.6666667		-6.6856
2015.7500000	**	-47.4575
2015.8333333	**	-30.3206
2015.9166667	**	37.6936
2016.0000000	****	-75.1669
2016.0833333	*	-12.6341
2016.1666667	**	33.6508
2016.2500000		0.0000
2016.3333333	**	31.1763
2016.4166667	*	10.1807
2016.5000000	*	-13.3746
2016.5833333	*	-19.1623
2016.6666667	*	-11.0343
2016.7500000	*	-28.4673
2016.8333333	*	-27.2029
2016.9166667	****	85.6516
2017.0000000	*	29.5188
2017.0833333		2.8152
2017.1666667	*	22.1157
2017.2500000	**	38.1611
2017.3333333	***	54.0542
2017.4166667	*	15.1920
2017.5000000		-2.4655
2017.5833333	*	-23.6146
2017.6666667	*	15.7677
2017.7500000	****	-71.8039
2017.8333333	***	-61.0677
2017.9166667	**	41.8075
2018.0000000	**	-46.1164
2018.0833333	*	17.1917
2018.1666667	*	-28.0194
2018.2500000		0.0000
2018.3333333		0.0000
2018.4166667		-3.0139
2018.5000000		7.3698
2018.5833333	*	-25.3774
2018.6666667	**	-45.9020
2018.7500000	**	43.5165
2018.8333333	*	-29.6831
2018.9166667	**	49.5539



Residual Values

INDIANA MICHIGAN COMPANY - MICHIGAN
 COMMERCIAL CUSTOMERS
 ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
1998	14256.75	.
1999	14514.5	1.8
2000	14806.75	2.0
2001	15067.25	1.8
2002	15330	1.7
2003	15681.08	2.3
2004	16058.33	2.4
2005	16436.58	2.4
2006	16754.75	1.9
2007	16927.58	1.0
2008	17058.75	0.8
2009	17157.83	0.6
2010	17242.83	0.5
2011	17369.67	0.7
2012	17410.25	0.2
2013	17485.08	0.4
2014	17500.5	0.1
2015	17563.5	0.4
2016	17585.92	0.1
2017	17628.92	0.2
2018	17969	1.9
2019	17721.37	-1.4
2020	17707.94	-0.1
2021	17751.62	0.2
2022	17809.64	0.3
2023	17836.94	0.2
2024	17871.04	0.2
2025	17898.04	0.2
2026	17921.54	0.1
2027	17950.22	0.2
2028	17987.49	0.2
2029	18020.07	0.2
2030	18047.76	0.2
2031	18078.07	0.2
2032	18110.34	0.2
2033	18145.83	0.2
2034	18182.4	0.2
2035	18218.84	0.2
2036	18250.4	0.2
2037	18279.31	0.2
2038	18309	0.2
2039	18338.9	0.2
2040	18369.06	0.2
2041	18396.42	0.1
2042	18422.36	0.1
2043	18445.49	0.1
2044	18466.61	0.1
2045	18486.34	0.1
2046	18506.18	0.1

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
COMMERCIAL CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2047	18526.01	0.1
2048	18547.36	0.1
2049	18569.15	0.1
2050	18591.37	0.1
2051	18614.04	0.1
2052	18637.15	0.1
2053	18660.7	0.1
2054	18684.71	0.1

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.500000
ci_imm	Industrial Customers	1035.45

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
1	1998	1	1166
2	1998	2	1126
3	1998	3	1130
4	1998	4	1153
5	1998	5	1137
6	1998	6	1144
7	1998	7	1138
8	1998	8	1117
9	1998	9	1143
10	1998	10	1140
11	1998	11	1130
12	1998	12	1153
13	1999	1	1136
14	1999	2	1138
15	1999	3	1145
16	1999	4	1136
17	1999	5	1152
18	1999	6	1153
19	1999	7	1142
20	1999	8	1142
21	1999	9	1141
22	1999	10	1137
23	1999	11	1135
24	1999	12	1131
25	2000	1	1145
26	2000	2	1138
27	2000	3	1136
28	2000	4	1136
29	2000	5	1137
30	2000	6	1138
31	2000	7	1133
32	2000	8	1143
33	2000	9	1147
34	2000	10	1146
35	2000	11	1141
36	2000	12	1137
37	2001	1	1140
38	2001	2	1143
39	2001	3	1134
40	2001	4	1130
41	2001	5	1126
42	2001	6	1132
43	2001	7	1132
44	2001	8	1137
45	2001	9	1131
46	2001	10	1133
47	2001	11	1129
48	2001	12	1134
49	2002	1	1128
50	2002	2	1128

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
51	2002	3	1126
52	2002	4	1140
53	2002	5	1125
54	2002	6	1128
55	2002	7	1125
56	2002	8	1131
57	2002	9	1127
58	2002	10	1124
59	2002	11	1122
60	2002	12	1119
61	2003	1	1136
62	2003	2	1126
63	2003	3	1121
64	2003	4	1112
65	2003	5	1105
66	2003	6	1114
67	2003	7	1130
68	2003	8	1122
69	2003	9	1109
70	2003	10	1110
71	2003	11	1108
72	2003	12	1109
73	2004	1	1107
74	2004	2	1108
75	2004	3	1112
76	2004	4	1110
77	2004	5	1113
78	2004	6	1111
79	2004	7	1110
80	2004	8	1104
81	2004	9	1097
82	2004	10	1100
83	2004	11	1092
84	2004	12	1092
85	2005	1	1099
86	2005	2	1080
87	2005	3	1099
88	2005	4	1096
89	2005	5	1089
90	2005	6	1087
91	2005	7	1078
92	2005	8	1087
93	2005	9	1079
94	2005	10	1078
95	2005	11	1068
96	2005	12	1072
97	2006	1	1081
98	2006	2	1073
99	2006	3	1079
100	2006	4	1066

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
101	2006	5	1070
102	2006	6	1062
103	2006	7	1064
104	2006	8	1061
105	2006	9	1062
106	2006	10	1060
107	2006	11	1058
108	2006	12	1058
109	2007	1	1053
110	2007	2	1043
111	2007	3	1063
112	2007	4	1051
113	2007	5	1040
114	2007	6	1054
115	2007	7	1045
116	2007	8	1043
117	2007	9	1040
118	2007	10	1041
119	2007	11	1039
120	2007	12	1029
121	2008	1	1026
122	2008	2	1027
123	2008	3	1021
124	2008	4	1023
125	2008	5	1025
126	2008	6	1019
127	2008	7	1019
128	2008	8	1010
129	2008	9	1015
130	2008	10	1003
131	2008	11	999
132	2008	12	1014
133	2009	1	1019
134	2009	2	1018
135	2009	3	1010
136	2009	4	1007
137	2009	5	998
138	2009	6	1005
139	2009	7	1009
140	2009	8	1002
141	2009	9	1004
142	2009	10	995
143	2009	11	991
144	2009	12	985
145	2010	1	989
146	2010	2	984
147	2010	3	998
148	2010	4	982
149	2010	5	977
150	2010	6	985

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
151	2010	7	978
152	2010	8	1005
153	2010	9	976
154	2010	10	989
155	2010	11	978
156	2010	12	972
157	2011	1	963
158	2011	2	953
159	2011	3	1043
160	2011	4	986
161	2011	5	986
162	2011	6	979
163	2011	7	979
164	2011	8	986
165	2011	9	988
166	2011	10	985
167	2011	11	981
168	2011	12	976
169	2012	1	998
170	2012	2	980
171	2012	3	978
172	2012	4	973
173	2012	5	969
174	2012	6	972
175	2012	7	965
176	2012	8	974
177	2012	9	980
178	2012	10	973
179	2012	11	968
180	2012	12	967
181	2013	1	980
182	2013	2	967
183	2013	3	972
184	2013	4	968
185	2013	5	967
186	2013	6	980
187	2013	7	971
188	2013	8	970
189	2013	9	969
190	2013	10	965
191	2013	11	967
192	2013	12	967
193	2014	1	969
194	2014	2	966
195	2014	3	969
196	2014	4	963
197	2014	5	965
198	2014	6	964
199	2014	7	971
200	2014	8	969

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
201	2014	9	966
202	2014	10	962
203	2014	11	964
204	2014	12	945
205	2015	1	975
206	2015	2	957
207	2015	3	961
208	2015	4	953
209	2015	5	952
210	2015	6	957
211	2015	7	953
212	2015	8	949
213	2015	9	949
214	2015	10	947
215	2015	11	945
216	2015	12	942
217	2016	1	947
218	2016	2	941
219	2016	3	947
220	2016	4	930
221	2016	5	941
222	2016	6	941
223	2016	7	940
224	2016	8	941
225	2016	9	938
226	2016	10	939
227	2016	11	941
228	2016	12	942
229	2017	1	946
230	2017	2	960
231	2017	3	943
232	2017	4	935
233	2017	5	936
234	2017	6	934
235	2017	7	931
236	2017	8	929
237	2017	9	923
238	2017	10	924
239	2017	11	927
240	2017	12	923
241	2018	1	923
242	2018	2	922
243	2018	3	915
244	2018	4	950
245	2018	5	960
246	2018	6	910
247	2018	7	913
248	2018	8	911
249	2018	9	908
250	2018	10	911

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
251	2018	11	915
252	2018	12	910
253	2019	1	.
254	2019	2	.
255	2019	3	.
256	2019	4	.
257	2019	5	.
258	2019	6	.
259	2019	7	.
260	2019	8	.
261	2019	9	.
262	2019	10	.
263	2019	11	.
264	2019	12	.
265	2020	1	.
266	2020	2	.
267	2020	3	.
268	2020	4	.
269	2020	5	.
270	2020	6	.
271	2020	7	.
272	2020	8	.
273	2020	9	.
274	2020	10	.
275	2020	11	.
276	2020	12	.
277	2021	1	.
278	2021	2	.
279	2021	3	.
280	2021	4	.
281	2021	5	.
282	2021	6	.
283	2021	7	.
284	2021	8	.
285	2021	9	.
286	2021	10	.
287	2021	11	.
288	2021	12	.
289	2022	1	.
290	2022	2	.
291	2022	3	.
292	2022	4	.
293	2022	5	.
294	2022	6	.
295	2022	7	.
296	2022	8	.
297	2022	9	.
298	2022	10	.
299	2022	11	.
300	2022	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
301	2023	1	.
302	2023	2	.
303	2023	3	.
304	2023	4	.
305	2023	5	.
306	2023	6	.
307	2023	7	.
308	2023	8	.
309	2023	9	.
310	2023	10	.
311	2023	11	.
312	2023	12	.
313	2024	1	.
314	2024	2	.
315	2024	3	.
316	2024	4	.
317	2024	5	.
318	2024	6	.
319	2024	7	.
320	2024	8	.
321	2024	9	.
322	2024	10	.
323	2024	11	.
324	2024	12	.
325	2025	1	.
326	2025	2	.
327	2025	3	.
328	2025	4	.
329	2025	5	.
330	2025	6	.
331	2025	7	.
332	2025	8	.
333	2025	9	.
334	2025	10	.
335	2025	11	.
336	2025	12	.
337	2026	1	.
338	2026	2	.
339	2026	3	.
340	2026	4	.
341	2026	5	.
342	2026	6	.
343	2026	7	.
344	2026	8	.
345	2026	9	.
346	2026	10	.
347	2026	11	.
348	2026	12	.
349	2027	1	.
350	2027	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
351	2027	3	.
352	2027	4	.
353	2027	5	.
354	2027	6	.
355	2027	7	.
356	2027	8	.
357	2027	9	.
358	2027	10	.
359	2027	11	.
360	2027	12	.
361	2028	1	.
362	2028	2	.
363	2028	3	.
364	2028	4	.
365	2028	5	.
366	2028	6	.
367	2028	7	.
368	2028	8	.
369	2028	9	.
370	2028	10	.
371	2028	11	.
372	2028	12	.
373	2029	1	.
374	2029	2	.
375	2029	3	.
376	2029	4	.
377	2029	5	.
378	2029	6	.
379	2029	7	.
380	2029	8	.
381	2029	9	.
382	2029	10	.
383	2029	11	.
384	2029	12	.
385	2030	1	.
386	2030	2	.
387	2030	3	.
388	2030	4	.
389	2030	5	.
390	2030	6	.
391	2030	7	.
392	2030	8	.
393	2030	9	.
394	2030	10	.
395	2030	11	.
396	2030	12	.
397	2031	1	.
398	2031	2	.
399	2031	3	.
400	2031	4	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
401	2031	5	.
402	2031	6	.
403	2031	7	.
404	2031	8	.
405	2031	9	.
406	2031	10	.
407	2031	11	.
408	2031	12	.
409	2032	1	.
410	2032	2	.
411	2032	3	.
412	2032	4	.
413	2032	5	.
414	2032	6	.
415	2032	7	.
416	2032	8	.
417	2032	9	.
418	2032	10	.
419	2032	11	.
420	2032	12	.
421	2033	1	.
422	2033	2	.
423	2033	3	.
424	2033	4	.
425	2033	5	.
426	2033	6	.
427	2033	7	.
428	2033	8	.
429	2033	9	.
430	2033	10	.
431	2033	11	.
432	2033	12	.
433	2034	1	.
434	2034	2	.
435	2034	3	.
436	2034	4	.
437	2034	5	.
438	2034	6	.
439	2034	7	.
440	2034	8	.
441	2034	9	.
442	2034	10	.
443	2034	11	.
444	2034	12	.
445	2035	1	.
446	2035	2	.
447	2035	3	.
448	2035	4	.
449	2035	5	.
450	2035	6	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
451	2035	7	.
452	2035	8	.
453	2035	9	.
454	2035	10	.
455	2035	11	.
456	2035	12	.
457	2036	1	.
458	2036	2	.
459	2036	3	.
460	2036	4	.
461	2036	5	.
462	2036	6	.
463	2036	7	.
464	2036	8	.
465	2036	9	.
466	2036	10	.
467	2036	11	.
468	2036	12	.
469	2037	1	.
470	2037	2	.
471	2037	3	.
472	2037	4	.
473	2037	5	.
474	2037	6	.
475	2037	7	.
476	2037	8	.
477	2037	9	.
478	2037	10	.
479	2037	11	.
480	2037	12	.
481	2038	1	.
482	2038	2	.
483	2038	3	.
484	2038	4	.
485	2038	5	.
486	2038	6	.
487	2038	7	.
488	2038	8	.
489	2038	9	.
490	2038	10	.
491	2038	11	.
492	2038	12	.
493	2039	1	.
494	2039	2	.
495	2039	3	.
496	2039	4	.
497	2039	5	.
498	2039	6	.
499	2039	7	.
500	2039	8	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
501	2039	9	.
502	2039	10	.
503	2039	11	.
504	2039	12	.
505	2040	1	.
506	2040	2	.
507	2040	3	.
508	2040	4	.
509	2040	5	.
510	2040	6	.
511	2040	7	.
512	2040	8	.
513	2040	9	.
514	2040	10	.
515	2040	11	.
516	2040	12	.
517	2041	1	.
518	2041	2	.
519	2041	3	.
520	2041	4	.
521	2041	5	.
522	2041	6	.
523	2041	7	.
524	2041	8	.
525	2041	9	.
526	2041	10	.
527	2041	11	.
528	2041	12	.
529	2042	1	.
530	2042	2	.
531	2042	3	.
532	2042	4	.
533	2042	5	.
534	2042	6	.
535	2042	7	.
536	2042	8	.
537	2042	9	.
538	2042	10	.
539	2042	11	.
540	2042	12	.
541	2043	1	.
542	2043	2	.
543	2043	3	.
544	2043	4	.
545	2043	5	.
546	2043	6	.
547	2043	7	.
548	2043	8	.
549	2043	9	.
550	2043	10	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
551	2043	11	.
552	2043	12	.
553	2044	1	.
554	2044	2	.
555	2044	3	.
556	2044	4	.
557	2044	5	.
558	2044	6	.
559	2044	7	.
560	2044	8	.
561	2044	9	.
562	2044	10	.
563	2044	11	.
564	2044	12	.
565	2045	1	.
566	2045	2	.
567	2045	3	.
568	2045	4	.
569	2045	5	.
570	2045	6	.
571	2045	7	.
572	2045	8	.
573	2045	9	.
574	2045	10	.
575	2045	11	.
576	2045	12	.
577	2046	1	.
578	2046	2	.
579	2046	3	.
580	2046	4	.
581	2046	5	.
582	2046	6	.
583	2046	7	.
584	2046	8	.
585	2046	9	.
586	2046	10	.
587	2046	11	.
588	2046	12	.
589	2047	1	.
590	2047	2	.
591	2047	3	.
592	2047	4	.
593	2047	5	.
594	2047	6	.
595	2047	7	.
596	2047	8	.
597	2047	9	.
598	2047	10	.
599	2047	11	.
600	2047	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
601	2048	1	.
602	2048	2	.
603	2048	3	.
604	2048	4	.
605	2048	5	.
606	2048	6	.
607	2048	7	.
608	2048	8	.
609	2048	9	.
610	2048	10	.
611	2048	11	.
612	2048	12	.
613	2049	1	.
614	2049	2	.
615	2049	3	.
616	2049	4	.
617	2049	5	.
618	2049	6	.
619	2049	7	.
620	2049	8	.
621	2049	9	.
622	2049	10	.
623	2049	11	.
624	2049	12	.
625	2050	1	.
626	2050	2	.
627	2050	3	.
628	2050	4	.
629	2050	5	.
630	2050	6	.
631	2050	7	.
632	2050	8	.
633	2050	9	.
634	2050	10	.
635	2050	11	.
636	2050	12	.
637	2051	1	.
638	2051	2	.
639	2051	3	.
640	2051	4	.
641	2051	5	.
642	2051	6	.
643	2051	7	.
644	2051	8	.
645	2051	9	.
646	2051	10	.
647	2051	11	.
648	2051	12	.
649	2052	1	.
650	2052	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	ci_imm
651	2052	3	.
652	2052	4	.
653	2052	5	.
654	2052	6	.
655	2052	7	.
656	2052	8	.
657	2052	9	.
658	2052	10	.
659	2052	11	.
660	2052	12	.
661	2053	1	.
662	2053	2	.
663	2053	3	.
664	2053	4	.
665	2053	5	.
666	2053	6	.
667	2053	7	.
668	2053	8	.
669	2053	9	.
670	2053	10	.
671	2053	11	.
672	2053	12	.
673	2054	1	.
674	2054	2	.
675	2054	3	.
676	2054	4	.
677	2054	5	.
678	2054	6	.
679	2054	7	.
680	2054	8	.
681	2054	9	.
682	2054	10	.
683	2054	11	.
684	2054	12	.

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.5000000
time	Trend	2026.46
d1	Binary Variable - January	0.0833333
d2	Binary Variable - February	0.0833333
d3	Binary Variable - March	0.0833333
d4	Binary Variable - April	0.0833333
d5	Binary Variable - May	0.0833333
d6	Binary Variable - June	0.0833333
d7	Binary Variable - July	0.0833333
d8	Binary Variable - August	0.0833333
d9	Binary Variable - September	0.0833333
d10	Binary Variable - October	0.0833333
d11	Binary Variable - November	0.0833333
sep12on	Binary Variable - September 2012 On	0.7426901
feb15on	Binary Variable - February 2015 On	0.7002924
d14on	Binary Variable - 2014 On	0.7192982
d16on	Binary Variable - 2016 On	0.6842105

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
151	2010	7	2010.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
152	2010	8	2010.58	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
153	2010	9	2010.67	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
154	2010	10	2010.75	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
155	2010	11	2010.83	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
156	2010	12	2010.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	2011	1	2011.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	2011	2	2011.08	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
159	2011	3	2011.17	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
160	2011	4	2011.25	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
161	2011	5	2011.33	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
162	2011	6	2011.42	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
163	2011	7	2011.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
164	2011	8	2011.58	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
165	2011	9	2011.67	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
166	2011	10	2011.75	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
167	2011	11	2011.83	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
168	2011	12	2011.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	2012	1	2012.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	2012	2	2012.08	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
171	2012	3	2012.17	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
172	2012	4	2012.25	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
173	2012	5	2012.33	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
174	2012	6	2012.42	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
175	2012	7	2012.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
176	2012	8	2012.58	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
177	2012	9	2012.67	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
178	2012	10	2012.75	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
179	2012	11	2012.83	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
180	2012	12	2012.92	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
181	2013	1	2013.00	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
182	2013	2	2013.08	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
183	2013	3	2013.17	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
184	2013	4	2013.25	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
185	2013	5	2013.33	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
186	2013	6	2013.42	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
187	2013	7	2013.50	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
188	2013	8	2013.58	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
189	2013	9	2013.67	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
190	2013	10	2013.75	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
191	2013	11	2013.83	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
192	2013	12	2013.92	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
193	2014	1	2014.00	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
194	2014	2	2014.08	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0
195	2014	3	2014.17	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0
196	2014	4	2014.25	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0
197	2014	5	2014.33	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0
198	2014	6	2014.42	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0
199	2014	7	2014.50	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0
200	2014	8	2014.58	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
201	2014	9	2014.67	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
202	2014	10	2014.75	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
203	2014	11	2014.83	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
204	2014	12	2014.92	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
205	2015	1	2015.00	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
206	2015	2	2015.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0
207	2015	3	2015.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0
208	2015	4	2015.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0
209	2015	5	2015.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0
210	2015	6	2015.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0
211	2015	7	2015.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0
212	2015	8	2015.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0
213	2015	9	2015.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0
214	2015	10	2015.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0
215	2015	11	2015.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
216	2015	12	2015.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
217	2016	1	2016.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
218	2016	2	2016.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
219	2016	3	2016.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
220	2016	4	2016.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
221	2016	5	2016.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
222	2016	6	2016.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
223	2016	7	2016.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
224	2016	8	2016.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
225	2016	9	2016.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
226	2016	10	2016.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
227	2016	11	2016.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
228	2016	12	2016.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
229	2017	1	2017.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
230	2017	2	2017.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
231	2017	3	2017.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
232	2017	4	2017.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
233	2017	5	2017.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
234	2017	6	2017.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
235	2017	7	2017.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
236	2017	8	2017.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
237	2017	9	2017.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
238	2017	10	2017.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
239	2017	11	2017.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
240	2017	12	2017.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
241	2018	1	2018.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
242	2018	2	2018.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
243	2018	3	2018.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
244	2018	4	2018.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
245	2018	5	2018.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
246	2018	6	2018.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
247	2018	7	2018.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
248	2018	8	2018.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
249	2018	9	2018.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
250	2018	10	2018.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
251	2018	11	2018.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
252	2018	12	2018.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
253	2019	1	2019.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
254	2019	2	2019.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
255	2019	3	2019.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
256	2019	4	2019.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
257	2019	5	2019.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
258	2019	6	2019.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
259	2019	7	2019.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
260	2019	8	2019.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
261	2019	9	2019.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
262	2019	10	2019.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
263	2019	11	2019.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
264	2019	12	2019.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
265	2020	1	2020.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
266	2020	2	2020.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
267	2020	3	2020.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
268	2020	4	2020.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
269	2020	5	2020.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
270	2020	6	2020.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
271	2020	7	2020.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
272	2020	8	2020.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
273	2020	9	2020.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
274	2020	10	2020.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
275	2020	11	2020.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
276	2020	12	2020.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
277	2021	1	2021.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
278	2021	2	2021.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
279	2021	3	2021.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
280	2021	4	2021.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
281	2021	5	2021.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
282	2021	6	2021.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
283	2021	7	2021.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
284	2021	8	2021.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
285	2021	9	2021.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
286	2021	10	2021.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
287	2021	11	2021.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
288	2021	12	2021.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
289	2022	1	2022.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
290	2022	2	2022.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
291	2022	3	2022.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
292	2022	4	2022.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
293	2022	5	2022.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
294	2022	6	2022.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
295	2022	7	2022.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
296	2022	8	2022.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
297	2022	9	2022.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
298	2022	10	2022.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
299	2022	11	2022.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
300	2022	12	2022.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
301	2023	1	2023.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
302	2023	2	2023.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
303	2023	3	2023.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
304	2023	4	2023.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
305	2023	5	2023.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
306	2023	6	2023.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
307	2023	7	2023.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
308	2023	8	2023.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
309	2023	9	2023.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
310	2023	10	2023.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
311	2023	11	2023.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
312	2023	12	2023.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
313	2024	1	2024.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
314	2024	2	2024.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
315	2024	3	2024.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
316	2024	4	2024.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
317	2024	5	2024.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
318	2024	6	2024.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
319	2024	7	2024.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
320	2024	8	2024.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
321	2024	9	2024.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
322	2024	10	2024.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
323	2024	11	2024.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
324	2024	12	2024.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
325	2025	1	2025.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
326	2025	2	2025.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
327	2025	3	2025.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
328	2025	4	2025.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
329	2025	5	2025.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
330	2025	6	2025.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
331	2025	7	2025.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
332	2025	8	2025.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
333	2025	9	2025.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
334	2025	10	2025.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
335	2025	11	2025.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
336	2025	12	2025.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
337	2026	1	2026.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
338	2026	2	2026.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
339	2026	3	2026.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
340	2026	4	2026.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
341	2026	5	2026.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
342	2026	6	2026.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
343	2026	7	2026.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
344	2026	8	2026.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
345	2026	9	2026.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
346	2026	10	2026.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
347	2026	11	2026.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
348	2026	12	2026.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
349	2027	1	2027.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
350	2027	2	2027.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
351	2027	3	2027.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
352	2027	4	2027.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
353	2027	5	2027.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
354	2027	6	2027.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
355	2027	7	2027.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
356	2027	8	2027.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
357	2027	9	2027.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
358	2027	10	2027.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
359	2027	11	2027.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
360	2027	12	2027.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
361	2028	1	2028.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
362	2028	2	2028.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
363	2028	3	2028.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
364	2028	4	2028.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
365	2028	5	2028.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
366	2028	6	2028.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
367	2028	7	2028.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
368	2028	8	2028.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
369	2028	9	2028.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
370	2028	10	2028.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
371	2028	11	2028.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
372	2028	12	2028.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
373	2029	1	2029.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
374	2029	2	2029.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
375	2029	3	2029.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
376	2029	4	2029.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
377	2029	5	2029.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
378	2029	6	2029.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
379	2029	7	2029.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
380	2029	8	2029.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
381	2029	9	2029.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
382	2029	10	2029.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
383	2029	11	2029.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
384	2029	12	2029.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
385	2030	1	2030.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
386	2030	2	2030.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
387	2030	3	2030.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
388	2030	4	2030.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
389	2030	5	2030.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
390	2030	6	2030.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
391	2030	7	2030.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
392	2030	8	2030.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
393	2030	9	2030.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
394	2030	10	2030.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
395	2030	11	2030.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
396	2030	12	2030.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
397	2031	1	2031.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
398	2031	2	2031.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
399	2031	3	2031.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
400	2031	4	2031.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
401	2031	5	2031.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
402	2031	6	2031.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
403	2031	7	2031.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
404	2031	8	2031.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
405	2031	9	2031.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
406	2031	10	2031.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
407	2031	11	2031.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
408	2031	12	2031.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
409	2032	1	2032.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
410	2032	2	2032.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
411	2032	3	2032.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
412	2032	4	2032.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
413	2032	5	2032.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
414	2032	6	2032.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
415	2032	7	2032.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
416	2032	8	2032.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
417	2032	9	2032.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
418	2032	10	2032.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
419	2032	11	2032.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
420	2032	12	2032.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
421	2033	1	2033.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
422	2033	2	2033.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
423	2033	3	2033.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
424	2033	4	2033.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
425	2033	5	2033.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
426	2033	6	2033.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
427	2033	7	2033.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
428	2033	8	2033.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
429	2033	9	2033.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
430	2033	10	2033.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
431	2033	11	2033.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
432	2033	12	2033.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
433	2034	1	2034.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
434	2034	2	2034.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
435	2034	3	2034.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
436	2034	4	2034.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
437	2034	5	2034.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
438	2034	6	2034.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
439	2034	7	2034.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
440	2034	8	2034.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
441	2034	9	2034.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
442	2034	10	2034.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
443	2034	11	2034.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
444	2034	12	2034.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
445	2035	1	2035.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
446	2035	2	2035.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
447	2035	3	2035.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
448	2035	4	2035.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
449	2035	5	2035.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
450	2035	6	2035.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
451	2035	7	2035.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
452	2035	8	2035.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
453	2035	9	2035.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
454	2035	10	2035.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
455	2035	11	2035.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
456	2035	12	2035.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
457	2036	1	2036.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
458	2036	2	2036.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
459	2036	3	2036.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
460	2036	4	2036.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
461	2036	5	2036.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
462	2036	6	2036.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
463	2036	7	2036.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
464	2036	8	2036.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
465	2036	9	2036.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
466	2036	10	2036.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
467	2036	11	2036.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
468	2036	12	2036.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
469	2037	1	2037.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
470	2037	2	2037.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
471	2037	3	2037.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
472	2037	4	2037.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
473	2037	5	2037.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
474	2037	6	2037.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
475	2037	7	2037.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
476	2037	8	2037.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
477	2037	9	2037.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
478	2037	10	2037.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
479	2037	11	2037.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
480	2037	12	2037.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
481	2038	1	2038.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
482	2038	2	2038.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
483	2038	3	2038.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
484	2038	4	2038.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
485	2038	5	2038.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
486	2038	6	2038.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
487	2038	7	2038.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
488	2038	8	2038.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
489	2038	9	2038.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
490	2038	10	2038.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
491	2038	11	2038.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
492	2038	12	2038.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
493	2039	1	2039.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
494	2039	2	2039.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
495	2039	3	2039.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
496	2039	4	2039.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
497	2039	5	2039.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
498	2039	6	2039.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
499	2039	7	2039.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
500	2039	8	2039.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
501	2039	9	2039.67	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
502	2039	10	2039.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
503	2039	11	2039.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
504	2039	12	2039.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
505	2040	1	2040.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
506	2040	2	2040.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
507	2040	3	2040.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
508	2040	4	2040.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
509	2040	5	2040.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
510	2040	6	2040.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
511	2040	7	2040.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
512	2040	8	2040.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
513	2040	9	2040.67	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
514	2040	10	2040.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
515	2040	11	2040.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
516	2040	12	2040.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
517	2041	1	2041.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
518	2041	2	2041.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
519	2041	3	2041.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
520	2041	4	2041.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
521	2041	5	2041.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
522	2041	6	2041.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
523	2041	7	2041.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
524	2041	8	2041.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
525	2041	9	2041.67	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
526	2041	10	2041.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
527	2041	11	2041.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
528	2041	12	2041.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
529	2042	1	2042.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
530	2042	2	2042.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
531	2042	3	2042.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
532	2042	4	2042.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
533	2042	5	2042.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
534	2042	6	2042.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
535	2042	7	2042.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
536	2042	8	2042.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
537	2042	9	2042.67	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
538	2042	10	2042.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
539	2042	11	2042.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
540	2042	12	2042.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
541	2043	1	2043.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
542	2043	2	2043.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
543	2043	3	2043.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
544	2043	4	2043.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
545	2043	5	2043.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
546	2043	6	2043.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
547	2043	7	2043.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
548	2043	8	2043.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
549	2043	9	2043.67	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
550	2043	10	2043.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
551	2043	11	2043.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
552	2043	12	2043.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
553	2044	1	2044.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
554	2044	2	2044.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
555	2044	3	2044.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
556	2044	4	2044.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
557	2044	5	2044.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
558	2044	6	2044.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
559	2044	7	2044.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
560	2044	8	2044.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
561	2044	9	2044.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
562	2044	10	2044.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
563	2044	11	2044.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
564	2044	12	2044.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
565	2045	1	2045.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
566	2045	2	2045.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
567	2045	3	2045.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
568	2045	4	2045.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
569	2045	5	2045.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
570	2045	6	2045.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
571	2045	7	2045.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
572	2045	8	2045.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
573	2045	9	2045.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
574	2045	10	2045.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
575	2045	11	2045.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
576	2045	12	2045.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
577	2046	1	2046.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
578	2046	2	2046.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
579	2046	3	2046.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
580	2046	4	2046.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
581	2046	5	2046.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
582	2046	6	2046.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
583	2046	7	2046.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
584	2046	8	2046.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
585	2046	9	2046.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
586	2046	10	2046.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
587	2046	11	2046.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
588	2046	12	2046.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
589	2047	1	2047.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
590	2047	2	2047.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
591	2047	3	2047.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
592	2047	4	2047.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
593	2047	5	2047.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
594	2047	6	2047.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
595	2047	7	2047.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
596	2047	8	2047.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
597	2047	9	2047.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
598	2047	10	2047.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
599	2047	11	2047.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
600	2047	12	2047.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
601	2048	1	2048.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
602	2048	2	2048.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
603	2048	3	2048.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
604	2048	4	2048.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
605	2048	5	2048.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
606	2048	6	2048.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
607	2048	7	2048.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
608	2048	8	2048.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
609	2048	9	2048.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
610	2048	10	2048.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
611	2048	11	2048.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
612	2048	12	2048.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
613	2049	1	2049.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
614	2049	2	2049.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
615	2049	3	2049.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
616	2049	4	2049.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
617	2049	5	2049.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
618	2049	6	2049.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
619	2049	7	2049.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
620	2049	8	2049.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
621	2049	9	2049.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
622	2049	10	2049.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
623	2049	11	2049.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
624	2049	12	2049.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
625	2050	1	2050.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
626	2050	2	2050.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
627	2050	3	2050.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
628	2050	4	2050.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
629	2050	5	2050.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
630	2050	6	2050.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
631	2050	7	2050.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
632	2050	8	2050.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
633	2050	9	2050.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
634	2050	10	2050.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
635	2050	11	2050.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
636	2050	12	2050.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
637	2051	1	2051.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
638	2051	2	2051.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
639	2051	3	2051.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
640	2051	4	2051.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
641	2051	5	2051.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
642	2051	6	2051.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
643	2051	7	2051.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
644	2051	8	2051.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
645	2051	9	2051.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
646	2051	10	2051.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
647	2051	11	2051.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
648	2051	12	2051.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
649	2052	1	2052.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
650	2052	2	2052.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1

Obs	YEAR	MONTH	time	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	sep12on	feb15on	d14on	d16on
651	2052	3	2052.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
652	2052	4	2052.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
653	2052	5	2052.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
654	2052	6	2052.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
655	2052	7	2052.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
656	2052	8	2052.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
657	2052	9	2052.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
658	2052	10	2052.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
659	2052	11	2052.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
660	2052	12	2052.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
661	2053	1	2053.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
662	2053	2	2053.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
663	2053	3	2053.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
664	2053	4	2053.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
665	2053	5	2053.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
666	2053	6	2053.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
667	2053	7	2053.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
668	2053	8	2053.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
669	2053	9	2053.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
670	2053	10	2053.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
671	2053	11	2053.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
672	2053	12	2053.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
673	2054	1	2054.00	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
674	2054	2	2054.08	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
675	2054	3	2054.17	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
676	2054	4	2054.25	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
677	2054	5	2054.33	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1
678	2054	6	2054.42	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
679	2054	7	2054.50	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1
680	2054	8	2054.58	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1
681	2054	9	2054.67	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
682	2054	10	2054.75	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
683	2054	11	2054.83	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
684	2054	12	2054.92	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 INDUSTRIAL CUSTOMERS
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model lci
 Dependent Variable lci

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	0.056817	0.003551	28.33	<.0001
Error	91	0.011408	0.000125		
Corrected Total	107	0.068225			

Root MSE	0.01120	R-Square	0.83279
Dependent Mean	6.86505	Adj R-Sq	0.80339
Coeff Var	0.16310		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	130.1096	25.26577	5.15	<.0001	Intercept
ltime	1	-16.2001	3.321518	-4.88	<.0001	Trend,Log
sep12on	1	0.005657	0.004718	1.20	0.2336	Binary Variable - September 2012 On
d14on	1	0.003058	0.004710	0.65	0.5177	Binary Variable - 2014 On
feb15on	1	-0.00587	0.004885	-1.20	0.2329	Binary Variable - February 2015 On
d16on	1	-0.00538	0.005067	-1.06	0.2911	Binary Variable - 2016 On
d1	1	0.009543	0.005407	1.76	0.0810	Binary Variable - January
d2	1	0.004027	0.005390	0.75	0.4569	Binary Variable - February
d3	1	0.015322	0.005365	2.86	0.0053	Binary Variable - March
d4	1	0.006517	0.005344	1.22	0.2259	Binary Variable - April
d5	1	0.008750	0.005327	1.64	0.1039	Binary Variable - May
d6	1	0.005648	0.005313	1.06	0.2906	Binary Variable - June
d7	1	0.003926	0.005303	0.74	0.4610	Binary Variable - July

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
d8	1	0.008269	0.005296	1.56	0.1219	Binary Variable - August
d9	1	0.004065	0.005294	0.77	0.4446	Binary Variable - September
d10	1	0.004521	0.005285	0.86	0.3946	Binary Variable - October
d11	1	0.004233	0.005280	0.80	0.4248	Binary Variable - November

Durbin-Watson	1.772943
Number of Observations	108
First-Order Autocorrelation	0.110421

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

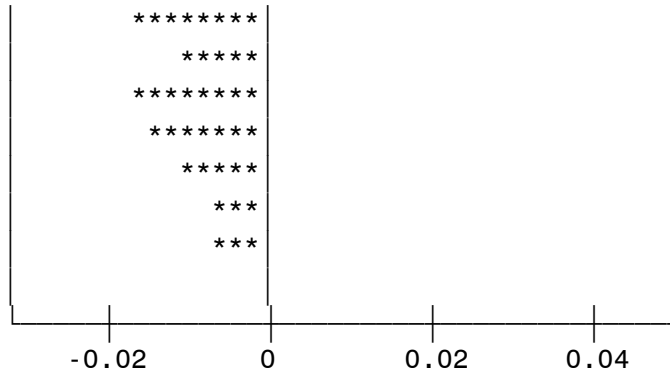
Trend		Residual Values
		Sum
2010.000000	***	-0.006214
2010.0833333	***	-0.005095
2010.1666667	*	-0.001591
2010.2500000	****	-0.008276
2010.3333333	*****	-0.014942
2010.4166667	**	-0.003014
2010.5000000	****	-0.007752
2010.5833333	*****	0.015809
2010.6666667	****	-0.008595
2010.7500000	**	0.004852
2010.8333333	***	-0.005374
2010.9166667	***	-0.006623
2011.0000000	*****	-0.024797
2011.0833333	*****	-0.029048
2011.1666667	*****	0.050569
2011.2500000	**	0.003846
2011.3333333	*	0.002284
2011.4166667	*	-0.001068
2011.5000000	*	0.001325
2011.5833333	**	0.004778
2011.6666667	*****	0.011680
2011.7500000	****	0.008854
2011.8333333	***	0.005744
2011.9166667	***	0.005538
2012.0000000	*****	0.018956
2012.0833333	***	0.006943
2012.1666667	***	-0.005724
2012.2500000	*	-0.001374
2012.3333333	****	-0.007055
2012.4166667		-0.000191
2012.5000000	***	-0.005026
2012.5833333		0.000584
2012.6666667	***	0.005944
2012.7500000	*	-0.001010
2012.8333333	***	-0.005203
2012.9166667	*	-0.001334
2013.0000000	**	0.003148
2013.0833333	**	-0.004019
2013.1666667	*****	-0.009486
2013.2500000	**	-0.004134
2013.3333333	***	-0.006730
2013.4166667	*****	0.010397
2013.5000000	**	0.003563
2013.5833333	*	-0.001141
2013.6666667	*	0.002703
2013.7500000	*	-0.001219
2013.8333333	*	0.001809
2013.9166667	***	0.006713
2014.0000000	**	-0.003152

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

2014.0833333		-0.000067
2014.1666667	****	-0.007591
2014.2500000	**	-0.004326
2014.3333333	**	-0.003815
2014.4166667	*	-0.001079
2014.5000000	****	0.008548
2014.5833333	*	0.002813
2014.6666667	**	0.004587
2014.7500000		0.000651
2014.8333333	**	0.003686
2014.9166667	*****	-0.011317
2015.0000000	*****	0.011062
2015.0833333	**	0.004481
2015.1666667	*	-0.001973
2015.2500000		-0.000857
2015.3333333	**	-0.003470
2015.4166667	***	0.005540
2015.5000000	**	0.003743
2015.5833333	**	-0.004137
2015.6666667		0.000738
2015.7500000	*	-0.001158
2015.8333333	*	-0.002315
2015.9166667		-0.000592
2016.0000000	*	0.001209
2016.0833333	*	0.001039
2016.1666667	**	-0.003231
2016.2500000	*****	-0.011871
2016.3333333	*	-0.001676
2016.4166667	*	0.002096
2016.5000000	**	0.003424
2016.5833333		0.000813
2016.6666667	*	0.002494
2016.7500000	**	0.003773
2016.8333333	***	0.006858
2016.9166667	*****	0.012822
2017.0000000	****	0.008186
2017.0833333	*****	0.029062
2017.1666667		0.000569
2017.2500000	*	0.001524
2017.3333333	*	0.001029
2017.4166667	*	0.002661
2017.5000000	*	0.001835
2017.5833333	**	-0.003990
2017.6666667	***	-0.005596
2017.7500000	**	-0.004300
2017.8333333		-0.000101
2017.9166667		0.000476
2018.0000000	****	-0.008398
2018.0833333	**	-0.003296
2018.1666667	*****	-0.021544
2018.2500000	*****	0.025468
2018.3333333	*****	0.034375

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
MODEL RESIDUALS

2018.416667	*****	-0.015342
2018.500000	*****	-0.009660
2018.583333	*****	-0.015528
2018.666667	*****	-0.013953
2018.750000	*****	-0.010442
2018.833333	***	-0.005104
2018.916667	***	-0.005682



Residual Values

YEAR	CUSTOMERS	GROWTH RATE	BASE CUSTOMERS	ADD FACTOR
1998	1139.75	.	1139.75	0
1999	1140.667	0.1	1140.67	0
2000	1139.75	-0.1	1139.75	0
2001	1133.417	-0.6	1133.42	0
2002	1126.917	-0.6	1126.92	0
2003	1116.833	-0.9	1116.83	0
2004	1104.667	-1.1	1104.67	0
2005	1084.333	-1.8	1084.33	0
2006	1066.167	-1.7	1066.17	0
2007	1045.083	-2.0	1045.08	0
2008	1016.75	-2.7	1016.75	0
2009	1003.583	-1.3	1003.58	0
2010	984.4167	-1.9	984.42	0
2011	983.75	-0.1	983.75	0
2012	974.75	-0.9	974.75	0
2013	970.25	-0.5	970.25	0
2014	964.4167	-0.6	964.42	0
2015	953.3333	-1.1	953.33	0
2016	940.6667	-1.3	940.67	0
2017	934.25	-0.7	934.25	0
2018	920.6667	-1.5	920.67	0
2019	902.9298	-1.9	916.93	-14
2020	895.6054	-0.8	909.61	-14
2021	888.3432	-0.8	902.34	-14
2022	881.1424	-0.8	895.14	-14
2023	874.0027	-0.8	888.00	-14
2024	866.9232	-0.8	880.92	-14
2025	859.9036	-0.8	873.90	-14
2026	852.9436	-0.8	866.94	-14
2027	846.0425	-0.8	860.04	-14
2028	839.1993	-0.8	853.20	-14
2029	832.4142	-0.8	846.41	-14
2030	825.6863	-0.8	839.69	-14
2031	819.015	-0.8	833.02	-14
2032	812.4001	-0.8	826.40	-14
2033	805.8409	-0.8	819.84	-14
2034	799.3369	-0.8	813.34	-14
2035	792.8877	-0.8	806.89	-14
2036	786.4928	-0.8	800.49	-14
2037	780.1516	-0.8	794.15	-14
2038	773.864	-0.8	787.86	-14
2039	767.6288	-0.8	781.63	-14
2040	761.4461	-0.8	775.45	-14
2041	755.3153	-0.8	769.32	-14
2042	749.2362	-0.8	763.24	-14
2043	743.2078	-0.8	757.21	-14
2044	737.23	-0.8	751.23	-14
2045	731.3022	-0.8	745.30	-14
2046	725.4242	-0.8	739.42	-14

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
INDUSTRIAL CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE	BASE CUSTOMERS	ADD FACTOR
2047	719.5953	-0.8	733.595	-14
2048	713.8153	-0.8	727.815	-14
2049	708.0834	-0.8	722.083	-14
2050	702.3994	-0.8	716.399	-14
2051	696.7631	-0.8	710.763	-14
2052	691.1738	-0.8	705.174	-14
2053	685.631	-0.8	699.631	-14
2054	680.1347	-0.8	694.135	-14

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.500000
cu_imm	Other Retail Customers	339.3134921

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
1	1998	1	461
2	1998	2	321
3	1998	3	324
4	1998	4	326
5	1998	5	323
6	1998	6	328
7	1998	7	325
8	1998	8	323
9	1998	9	328
10	1998	10	323
11	1998	11	318
12	1998	12	321
13	1999	1	319
14	1999	2	319
15	1999	3	324
16	1999	4	319
17	1999	5	319
18	1999	6	324
19	1999	7	320
20	1999	8	324
21	1999	9	324
22	1999	10	327
23	1999	11	326
24	1999	12	323
25	2000	1	326
26	2000	2	328
27	2000	3	325
28	2000	4	326
29	2000	5	325
30	2000	6	324
31	2000	7	324
32	2000	8	324
33	2000	9	324
34	2000	10	324
35	2000	11	324
36	2000	12	325
37	2001	1	325
38	2001	2	325
39	2001	3	325
40	2001	4	325
41	2001	5	326
42	2001	6	326
43	2001	7	333
44	2001	8	328
45	2001	9	323
46	2001	10	336
47	2001	11	331
48	2001	12	332
49	2002	1	331
50	2002	2	330

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
51	2002	3	339
52	2002	4	331
53	2002	5	332
54	2002	6	335
55	2002	7	335
56	2002	8	335
57	2002	9	336
58	2002	10	336
59	2002	11	335
60	2002	12	335
61	2003	1	335
62	2003	2	334
63	2003	3	336
64	2003	4	335
65	2003	5	334
66	2003	6	336
67	2003	7	335
68	2003	8	335
69	2003	9	337
70	2003	10	337
71	2003	11	337
72	2003	12	337
73	2004	1	337
74	2004	2	336
75	2004	3	339
76	2004	4	337
77	2004	5	337
78	2004	6	345
79	2004	7	338
80	2004	8	338
81	2004	9	339
82	2004	10	338
83	2004	11	342
84	2004	12	339
85	2005	1	359
86	2005	2	342
87	2005	3	340
88	2005	4	344
89	2005	5	343
90	2005	6	341
91	2005	7	341
92	2005	8	342
93	2005	9	344
94	2005	10	342
95	2005	11	341
96	2005	12	343
97	2006	1	342
98	2006	2	341
99	2006	3	342
100	2006	4	349

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
101	2006	5	343
102	2006	6	342
103	2006	7	342
104	2006	8	340
105	2006	9	342
106	2006	10	341
107	2006	11	341
108	2006	12	341
109	2007	1	340
110	2007	2	339
111	2007	3	341
112	2007	4	343
113	2007	5	348
114	2007	6	348
115	2007	7	348
116	2007	8	349
117	2007	9	349
118	2007	10	350
119	2007	11	351
120	2007	12	349
121	2008	1	349
122	2008	2	351
123	2008	3	350
124	2008	4	349
125	2008	5	348
126	2008	6	348
127	2008	7	348
128	2008	8	347
129	2008	9	346
130	2008	10	345
131	2008	11	345
132	2008	12	341
133	2009	1	347
134	2009	2	343
135	2009	3	345
136	2009	4	343
137	2009	5	347
138	2009	6	346
139	2009	7	346
140	2009	8	343
141	2009	9	343
142	2009	10	342
143	2009	11	342
144	2009	12	342
145	2010	1	341
146	2010	2	339
147	2010	3	347
148	2010	4	344
149	2010	5	343
150	2010	6	341

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
151	2010	7	342
152	2010	8	345
153	2010	9	340
154	2010	10	341
155	2010	11	342
156	2010	12	339
157	2011	1	339
158	2011	2	334
159	2011	3	348
160	2011	4	340
161	2011	5	340
162	2011	6	339
163	2011	7	339
164	2011	8	341
165	2011	9	339
166	2011	10	339
167	2011	11	339
168	2011	12	339
169	2012	1	340
170	2012	2	339
171	2012	3	339
172	2012	4	339
173	2012	5	341
174	2012	6	338
175	2012	7	345
176	2012	8	341
177	2012	9	341
178	2012	10	341
179	2012	11	341
180	2012	12	341
181	2013	1	340
182	2013	2	339
183	2013	3	341
184	2013	4	341
185	2013	5	340
186	2013	6	340
187	2013	7	340
188	2013	8	340
189	2013	9	340
190	2013	10	357
191	2013	11	341
192	2013	12	342
193	2014	1	341
194	2014	2	341
195	2014	3	339
196	2014	4	340
197	2014	5	341
198	2014	6	341
199	2014	7	341
200	2014	8	342

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
201	2014	9	342
202	2014	10	343
203	2014	11	343
204	2014	12	342
205	2015	1	344
206	2015	2	343
207	2015	3	343
208	2015	4	343
209	2015	5	343
210	2015	6	343
211	2015	7	343
212	2015	8	343
213	2015	9	342
214	2015	10	342
215	2015	11	343
216	2015	12	342
217	2016	1	342
218	2016	2	341
219	2016	3	343
220	2016	4	341
221	2016	5	343
222	2016	6	343
223	2016	7	343
224	2016	8	343
225	2016	9	343
226	2016	10	343
227	2016	11	343
228	2016	12	344
229	2017	1	344
230	2017	2	344
231	2017	3	344
232	2017	4	344
233	2017	5	344
234	2017	6	344
235	2017	7	344
236	2017	8	344
237	2017	9	344
238	2017	10	344
239	2017	11	344
240	2017	12	346
241	2018	1	345
242	2018	2	344
243	2018	3	346
244	2018	4	219
245	2018	5	514
246	2018	6	345
247	2018	7	345
248	2018	8	345
249	2018	9	345
250	2018	10	345

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
251	2018	11	345
252	2018	12	345
253	2019	1	.
254	2019	2	.
255	2019	3	.
256	2019	4	.
257	2019	5	.
258	2019	6	.
259	2019	7	.
260	2019	8	.
261	2019	9	.
262	2019	10	.
263	2019	11	.
264	2019	12	.
265	2020	1	.
266	2020	2	.
267	2020	3	.
268	2020	4	.
269	2020	5	.
270	2020	6	.
271	2020	7	.
272	2020	8	.
273	2020	9	.
274	2020	10	.
275	2020	11	.
276	2020	12	.
277	2021	1	.
278	2021	2	.
279	2021	3	.
280	2021	4	.
281	2021	5	.
282	2021	6	.
283	2021	7	.
284	2021	8	.
285	2021	9	.
286	2021	10	.
287	2021	11	.
288	2021	12	.
289	2022	1	.
290	2022	2	.
291	2022	3	.
292	2022	4	.
293	2022	5	.
294	2022	6	.
295	2022	7	.
296	2022	8	.
297	2022	9	.
298	2022	10	.
299	2022	11	.
300	2022	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
301	2023	1	.
302	2023	2	.
303	2023	3	.
304	2023	4	.
305	2023	5	.
306	2023	6	.
307	2023	7	.
308	2023	8	.
309	2023	9	.
310	2023	10	.
311	2023	11	.
312	2023	12	.
313	2024	1	.
314	2024	2	.
315	2024	3	.
316	2024	4	.
317	2024	5	.
318	2024	6	.
319	2024	7	.
320	2024	8	.
321	2024	9	.
322	2024	10	.
323	2024	11	.
324	2024	12	.
325	2025	1	.
326	2025	2	.
327	2025	3	.
328	2025	4	.
329	2025	5	.
330	2025	6	.
331	2025	7	.
332	2025	8	.
333	2025	9	.
334	2025	10	.
335	2025	11	.
336	2025	12	.
337	2026	1	.
338	2026	2	.
339	2026	3	.
340	2026	4	.
341	2026	5	.
342	2026	6	.
343	2026	7	.
344	2026	8	.
345	2026	9	.
346	2026	10	.
347	2026	11	.
348	2026	12	.
349	2027	1	.
350	2027	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
351	2027	3	.
352	2027	4	.
353	2027	5	.
354	2027	6	.
355	2027	7	.
356	2027	8	.
357	2027	9	.
358	2027	10	.
359	2027	11	.
360	2027	12	.
361	2028	1	.
362	2028	2	.
363	2028	3	.
364	2028	4	.
365	2028	5	.
366	2028	6	.
367	2028	7	.
368	2028	8	.
369	2028	9	.
370	2028	10	.
371	2028	11	.
372	2028	12	.
373	2029	1	.
374	2029	2	.
375	2029	3	.
376	2029	4	.
377	2029	5	.
378	2029	6	.
379	2029	7	.
380	2029	8	.
381	2029	9	.
382	2029	10	.
383	2029	11	.
384	2029	12	.
385	2030	1	.
386	2030	2	.
387	2030	3	.
388	2030	4	.
389	2030	5	.
390	2030	6	.
391	2030	7	.
392	2030	8	.
393	2030	9	.
394	2030	10	.
395	2030	11	.
396	2030	12	.
397	2031	1	.
398	2031	2	.
399	2031	3	.
400	2031	4	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
401	2031	5	.
402	2031	6	.
403	2031	7	.
404	2031	8	.
405	2031	9	.
406	2031	10	.
407	2031	11	.
408	2031	12	.
409	2032	1	.
410	2032	2	.
411	2032	3	.
412	2032	4	.
413	2032	5	.
414	2032	6	.
415	2032	7	.
416	2032	8	.
417	2032	9	.
418	2032	10	.
419	2032	11	.
420	2032	12	.
421	2033	1	.
422	2033	2	.
423	2033	3	.
424	2033	4	.
425	2033	5	.
426	2033	6	.
427	2033	7	.
428	2033	8	.
429	2033	9	.
430	2033	10	.
431	2033	11	.
432	2033	12	.
433	2034	1	.
434	2034	2	.
435	2034	3	.
436	2034	4	.
437	2034	5	.
438	2034	6	.
439	2034	7	.
440	2034	8	.
441	2034	9	.
442	2034	10	.
443	2034	11	.
444	2034	12	.
445	2035	1	.
446	2035	2	.
447	2035	3	.
448	2035	4	.
449	2035	5	.
450	2035	6	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
451	2035	7	.
452	2035	8	.
453	2035	9	.
454	2035	10	.
455	2035	11	.
456	2035	12	.
457	2036	1	.
458	2036	2	.
459	2036	3	.
460	2036	4	.
461	2036	5	.
462	2036	6	.
463	2036	7	.
464	2036	8	.
465	2036	9	.
466	2036	10	.
467	2036	11	.
468	2036	12	.
469	2037	1	.
470	2037	2	.
471	2037	3	.
472	2037	4	.
473	2037	5	.
474	2037	6	.
475	2037	7	.
476	2037	8	.
477	2037	9	.
478	2037	10	.
479	2037	11	.
480	2037	12	.
481	2038	1	.
482	2038	2	.
483	2038	3	.
484	2038	4	.
485	2038	5	.
486	2038	6	.
487	2038	7	.
488	2038	8	.
489	2038	9	.
490	2038	10	.
491	2038	11	.
492	2038	12	.
493	2039	1	.
494	2039	2	.
495	2039	3	.
496	2039	4	.
497	2039	5	.
498	2039	6	.
499	2039	7	.
500	2039	8	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
501	2039	9	.
502	2039	10	.
503	2039	11	.
504	2039	12	.
505	2040	1	.
506	2040	2	.
507	2040	3	.
508	2040	4	.
509	2040	5	.
510	2040	6	.
511	2040	7	.
512	2040	8	.
513	2040	9	.
514	2040	10	.
515	2040	11	.
516	2040	12	.
517	2041	1	.
518	2041	2	.
519	2041	3	.
520	2041	4	.
521	2041	5	.
522	2041	6	.
523	2041	7	.
524	2041	8	.
525	2041	9	.
526	2041	10	.
527	2041	11	.
528	2041	12	.
529	2042	1	.
530	2042	2	.
531	2042	3	.
532	2042	4	.
533	2042	5	.
534	2042	6	.
535	2042	7	.
536	2042	8	.
537	2042	9	.
538	2042	10	.
539	2042	11	.
540	2042	12	.
541	2043	1	.
542	2043	2	.
543	2043	3	.
544	2043	4	.
545	2043	5	.
546	2043	6	.
547	2043	7	.
548	2043	8	.
549	2043	9	.
550	2043	10	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
551	2043	11	.
552	2043	12	.
553	2044	1	.
554	2044	2	.
555	2044	3	.
556	2044	4	.
557	2044	5	.
558	2044	6	.
559	2044	7	.
560	2044	8	.
561	2044	9	.
562	2044	10	.
563	2044	11	.
564	2044	12	.
565	2045	1	.
566	2045	2	.
567	2045	3	.
568	2045	4	.
569	2045	5	.
570	2045	6	.
571	2045	7	.
572	2045	8	.
573	2045	9	.
574	2045	10	.
575	2045	11	.
576	2045	12	.
577	2046	1	.
578	2046	2	.
579	2046	3	.
580	2046	4	.
581	2046	5	.
582	2046	6	.
583	2046	7	.
584	2046	8	.
585	2046	9	.
586	2046	10	.
587	2046	11	.
588	2046	12	.
589	2047	1	.
590	2047	2	.
591	2047	3	.
592	2047	4	.
593	2047	5	.
594	2047	6	.
595	2047	7	.
596	2047	8	.
597	2047	9	.
598	2047	10	.
599	2047	11	.
600	2047	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
601	2048	1	.
602	2048	2	.
603	2048	3	.
604	2048	4	.
605	2048	5	.
606	2048	6	.
607	2048	7	.
608	2048	8	.
609	2048	9	.
610	2048	10	.
611	2048	11	.
612	2048	12	.
613	2049	1	.
614	2049	2	.
615	2049	3	.
616	2049	4	.
617	2049	5	.
618	2049	6	.
619	2049	7	.
620	2049	8	.
621	2049	9	.
622	2049	10	.
623	2049	11	.
624	2049	12	.
625	2050	1	.
626	2050	2	.
627	2050	3	.
628	2050	4	.
629	2050	5	.
630	2050	6	.
631	2050	7	.
632	2050	8	.
633	2050	9	.
634	2050	10	.
635	2050	11	.
636	2050	12	.
637	2051	1	.
638	2051	2	.
639	2051	3	.
640	2051	4	.
641	2051	5	.
642	2051	6	.
643	2051	7	.
644	2051	8	.
645	2051	9	.
646	2051	10	.
647	2051	11	.
648	2051	12	.
649	2052	1	.
650	2052	2	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ENDOGENOUS VARIABLES

Obs	YEAR	MONTH	cu_imm
651	2052	3	.
652	2052	4	.
653	2052	5	.
654	2052	6	.
655	2052	7	.
656	2052	8	.
657	2052	9	.
658	2052	10	.
659	2052	11	.
660	2052	12	.
661	2053	1	.
662	2053	2	.
663	2053	3	.
664	2053	4	.
665	2053	5	.
666	2053	6	.
667	2053	7	.
668	2053	8	.
669	2053	9	.
670	2053	10	.
671	2053	11	.
672	2053	12	.
673	2054	1	.
674	2054	2	.
675	2054	3	.
676	2054	4	.
677	2054	5	.
678	2054	6	.
679	2054	7	.
680	2054	8	.
681	2054	9	.
682	2054	10	.
683	2054	11	.
684	2054	12	.

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	Year	2026.00
MONTH	Month	6.5000000
N_IMM	Service Area Population	327.0986335
gdp_imm	Service Area Gross Regional Product	13707.24
d04on	Binary Variable - 2004 On	0.8947368
d07on	Binary Variable - 2007 On	0.8421053
oct13	Binary Variable - October 2013	0.0014620
nov13	Binary Variable - November 2013	0.0014620
jan98	Binary Variable - January 1998	0.0014620
d12on	Binary Variable - 2012 On	0.7543860
d17on	Binary Variable - 2017 On	0.6666667
may18	Binary Variable - Myay 2018	0.0014620
apr18	Binary Variable - April 2018	0.0014620

OTHER ULTIMATE CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
101	2006	5	349.110	11907.26	1	0	0	0	0	0	0	0	0
102	2006	6	349.057	11923.56	1	0	0	0	0	0	0	0	0
103	2006	7	349.012	11941.24	1	0	0	0	0	0	0	0	0
104	2006	8	348.973	11960.46	1	0	0	0	0	0	0	0	0
105	2006	9	348.943	11980.31	1	0	0	0	0	0	0	0	0
106	2006	10	348.917	12000.82	1	0	0	0	0	0	0	0	0
107	2006	11	348.897	12021.70	1	0	0	0	0	0	0	0	0
108	2006	12	348.884	12042.66	1	0	0	0	0	0	0	0	0
109	2007	1	348.874	12063.76	1	1	0	0	0	0	0	0	0
110	2007	2	348.868	12083.38	1	1	0	0	0	0	0	0	0
111	2007	3	348.866	12102.27	1	1	0	0	0	0	0	0	0
112	2007	4	348.866	12120.78	1	1	0	0	0	0	0	0	0
113	2007	5	348.870	12137.96	1	1	0	0	0	0	0	0	0
114	2007	6	348.876	12153.54	1	1	0	0	0	0	0	0	0
115	2007	7	348.881	12167.17	1	1	0	0	0	0	0	0	0
116	2007	8	348.890	12178.15	1	1	0	0	0	0	0	0	0
117	2007	9	348.897	12184.69	1	1	0	0	0	0	0	0	0
118	2007	10	348.902	12185.45	1	1	0	0	0	0	0	0	0
119	2007	11	348.905	12179.03	1	1	0	0	0	0	0	0	0
120	2007	12	348.903	12163.82	1	1	0	0	0	0	0	0	0
121	2008	1	348.897	12137.91	1	1	0	0	0	0	0	0	0
122	2008	2	348.883	12101.39	1	1	0	0	0	0	0	0	0
123	2008	3	348.863	12051.94	1	1	0	0	0	0	0	0	0
124	2008	4	348.835	11987.24	1	1	0	0	0	0	0	0	0
125	2008	5	348.795	11906.29	1	1	0	0	0	0	0	0	0
126	2008	6	348.745	11807.78	1	1	0	0	0	0	0	0	0
127	2008	7	348.682	11690.27	1	1	0	0	0	0	0	0	0
128	2008	8	348.607	11553.14	1	1	0	0	0	0	0	0	0
129	2008	9	348.521	11405.41	1	1	0	0	0	0	0	0	0
130	2008	10	348.426	11249.74	1	1	0	0	0	0	0	0	0
131	2008	11	348.323	11091.04	1	1	0	0	0	0	0	0	0
132	2008	12	348.211	10934.14	1	1	0	0	0	0	0	0	0
133	2009	1	348.092	10781.46	1	1	0	0	0	0	0	0	0
134	2009	2	347.976	10647.02	1	1	0	0	0	0	0	0	0
135	2009	3	347.855	10527.98	1	1	0	0	0	0	0	0	0
136	2009	4	347.729	10425.30	1	1	0	0	0	0	0	0	0
137	2009	5	347.601	10348.46	1	1	0	0	0	0	0	0	0
138	2009	6	347.475	10301.99	1	1	0	0	0	0	0	0	0
139	2009	7	347.349	10290.73	1	1	0	0	0	0	0	0	0
140	2009	8	347.225	10315.12	1	1	0	0	0	0	0	0	0
141	2009	9	347.106	10369.64	1	1	0	0	0	0	0	0	0
142	2009	10	346.993	10449.41	1	1	0	0	0	0	0	0	0
143	2009	11	346.884	10548.98	1	1	0	0	0	0	0	0	0
144	2009	12	346.782	10663.34	1	1	0	0	0	0	0	0	0
145	2010	1	346.687	10789.24	1	1	0	0	0	0	0	0	0
146	2010	2	346.602	10913.19	1	1	0	0	0	0	0	0	0
147	2010	3	346.527	11036.37	1	1	0	0	0	0	0	0	0
148	2010	4	346.459	11157.97	1	1	0	0	0	0	0	0	0
149	2010	5	346.402	11268.47	1	1	0	0	0	0	0	0	0
150	2010	6	346.356	11362.81	1	1	0	0	0	0	0	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
151	2010	7	346.324	11435.87	1	1	0	0	0	0	0	0	0
152	2010	8	346.302	11486.83	1	1	0	0	0	0	0	0	0
153	2010	9	346.290	11516.05	1	1	0	0	0	0	0	0	0
154	2010	10	346.284	11526.73	1	1	0	0	0	0	0	0	0
155	2010	11	346.279	11521.42	1	1	0	0	0	0	0	0	0
156	2010	12	346.276	11502.29	1	1	0	0	0	0	0	0	0
157	2011	1	346.269	11471.24	1	1	0	0	0	0	0	0	0
158	2011	2	346.258	11433.07	1	1	0	0	0	0	0	0	0
159	2011	3	346.238	11388.51	1	1	0	0	0	0	0	0	0
160	2011	4	346.206	11338.15	1	1	0	0	0	0	0	0	0
161	2011	5	346.158	11285.69	1	1	0	0	0	0	0	0	0
162	2011	6	346.095	11233.47	1	1	0	0	0	0	0	0	0
163	2011	7	346.010	11183.79	1	1	0	0	0	0	0	0	0
164	2011	8	345.904	11137.16	1	1	0	0	0	0	0	0	0
165	2011	9	345.782	11095.24	1	1	0	0	0	0	0	0	0
166	2011	10	345.645	11057.33	1	1	0	0	0	0	0	0	0
167	2011	11	345.497	11023.43	1	1	0	0	0	0	0	0	0
168	2011	12	345.338	10993.62	1	1	0	0	0	0	0	0	0
169	2012	1	345.172	10967.54	1	1	0	0	0	1	0	0	0
170	2012	2	345.010	10946.36	1	1	0	0	0	1	0	0	0
171	2012	3	344.846	10929.30	1	1	0	0	0	1	0	0	0
172	2012	4	344.683	10916.13	1	1	0	0	0	1	0	0	0
173	2012	5	344.526	10907.29	1	1	0	0	0	1	0	0	0
174	2012	6	344.378	10902.75	1	1	0	0	0	1	0	0	0
175	2012	7	344.241	10902.61	1	1	0	0	0	1	0	0	0
176	2012	8	344.115	10906.73	1	1	0	0	0	1	0	0	0
177	2012	9	344.005	10914.61	1	1	0	0	0	1	0	0	0
178	2012	10	343.906	10925.88	1	1	0	0	0	1	0	0	0
179	2012	11	343.821	10940.10	1	1	0	0	0	1	0	0	0
180	2012	12	343.747	10956.89	1	1	0	0	0	1	0	0	0
181	2013	1	343.683	10976.13	1	1	0	0	0	1	0	0	0
182	2013	2	343.632	10996.09	1	1	0	0	0	1	0	0	0
183	2013	3	343.592	11017.31	1	1	0	0	0	1	0	0	0
184	2013	4	343.561	11040.13	1	1	0	0	0	1	0	0	0
185	2013	5	343.540	11063.47	1	1	0	0	0	1	0	0	0
186	2013	6	343.529	11086.91	1	1	0	0	0	1	0	0	0
187	2013	7	343.527	11110.04	1	1	0	0	0	1	0	0	0
188	2013	8	343.533	11132.95	1	1	0	0	0	1	0	0	0
189	2013	9	343.544	11154.78	1	1	0	0	0	1	0	0	0
190	2013	10	343.558	11175.79	1	1	1	0	0	1	0	0	0
191	2013	11	343.573	11195.86	1	1	0	1	0	1	0	0	0
192	2013	12	343.584	11214.87	1	1	0	0	0	1	0	0	0
193	2014	1	343.590	11233.00	1	1	0	0	0	1	0	0	0
194	2014	2	343.591	11249.03	1	1	0	0	0	1	0	0	0
195	2014	3	343.580	11263.72	1	1	0	0	0	1	0	0	0
196	2014	4	343.558	11277.45	1	1	0	0	0	1	0	0	0
197	2014	5	343.520	11289.54	1	1	0	0	0	1	0	0	0
198	2014	6	343.465	11299.90	1	1	0	0	0	1	0	0	0
199	2014	7	343.389	11308.41	1	1	0	0	0	1	0	0	0
200	2014	8	343.293	11315.32	1	1	0	0	0	1	0	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
201	2014	9	343.179	11320.77	1	1	0	0	0	1	0	0	0
202	2014	10	343.052	11325.29	1	1	0	0	0	1	0	0	0
203	2014	11	342.914	11329.28	1	1	0	0	0	1	0	0	0
204	2014	12	342.767	11333.14	1	1	0	0	0	1	0	0	0
205	2015	1	342.613	11337.34	1	1	0	0	0	1	0	0	0
206	2015	2	342.464	11341.97	1	1	0	0	0	1	0	0	0
207	2015	3	342.317	11347.60	1	1	0	0	0	1	0	0	0
208	2015	4	342.168	11354.84	1	1	0	0	0	1	0	0	0
209	2015	5	342.026	11363.93	1	1	0	0	0	1	0	0	0
210	2015	6	341.891	11375.25	1	1	0	0	0	1	0	0	0
211	2015	7	341.771	11389.21	1	1	0	0	0	1	0	0	0
212	2015	8	341.663	11406.08	1	1	0	0	0	1	0	0	0
213	2015	9	341.571	11424.97	1	1	0	0	0	1	0	0	0
214	2015	10	341.493	11445.75	1	1	0	0	0	1	0	0	0
215	2015	11	341.427	11468.00	1	1	0	0	0	1	0	0	0
216	2015	12	341.375	11491.35	1	1	0	0	0	1	0	0	0
217	2016	1	341.337	11515.79	1	1	0	0	0	1	0	0	0
218	2016	2	341.311	11539.73	1	1	0	0	0	1	0	0	0
219	2016	3	341.295	11563.58	1	1	0	0	0	1	0	0	0
220	2016	4	341.294	11587.34	1	1	0	0	0	1	0	0	0
221	2016	5	341.303	11610.21	1	1	0	0	0	1	0	0	0
222	2016	6	341.324	11631.82	1	1	0	0	0	1	0	0	0
223	2016	7	341.357	11651.76	1	1	0	0	0	1	0	0	0
224	2016	8	341.400	11670.21	1	1	0	0	0	1	0	0	0
225	2016	9	341.451	11686.72	1	1	0	0	0	1	0	0	0
226	2016	10	341.508	11701.72	1	1	0	0	0	1	0	0	0
227	2016	11	341.571	11715.42	1	1	0	0	0	1	0	0	0
228	2016	12	341.635	11727.94	1	1	0	0	0	1	0	0	0
229	2017	1	341.703	11739.63	1	1	0	0	0	1	1	0	0
230	2017	2	341.765	11749.95	1	1	0	0	0	1	1	0	0
231	2017	3	341.825	11759.61	1	1	0	0	0	1	1	0	0
232	2017	4	341.882	11769.08	1	1	0	0	0	1	1	0	0
233	2017	5	341.934	11778.16	1	1	0	0	0	1	1	0	0
234	2017	6	341.976	11787.03	1	1	0	0	0	1	1	0	0
235	2017	7	342.010	11795.83	1	1	0	0	0	1	1	0	0
236	2017	8	342.032	11804.90	1	1	0	0	0	1	1	0	0
237	2017	9	342.043	11814.15	1	1	0	0	0	1	1	0	0
238	2017	10	342.045	11823.93	1	1	0	0	0	1	1	0	0
239	2017	11	342.037	11834.45	1	1	0	0	0	1	1	0	0
240	2017	12	342.019	11845.91	1	1	0	0	0	1	1	0	0
241	2018	1	341.992	11858.73	1	1	0	0	0	1	1	0	0
242	2018	2	341.958	11872.21	1	1	0	0	0	1	1	0	0
243	2018	3	341.918	11887.16	1	1	0	0	0	1	1	0	0
244	2018	4	341.869	11904.33	1	1	0	0	0	1	1	0	1
245	2018	5	341.810	11923.46	1	1	0	0	0	1	1	1	0
246	2018	6	341.747	11944.74	1	1	0	0	0	1	1	0	0
247	2018	7	341.677	11968.37	1	1	0	0	0	1	1	0	0
248	2018	8	341.600	11994.57	1	1	0	0	0	1	1	0	0
249	2018	9	341.520	12021.89	1	1	0	0	0	1	1	0	0
250	2018	10	341.433	12050.11	1	1	0	0	0	1	1	0	0

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Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
251	2018	11	341.343	12078.59	1	1	0	0	0	1	1	0	0
252	2018	12	341.250	12106.69	1	1	0	0	0	1	1	0	0
253	2019	1	341.150	12134.21	1	1	0	0	0	1	1	0	0
254	2019	2	341.051	12158.83	1	1	0	0	0	1	1	0	0
255	2019	3	340.951	12181.29	1	1	0	0	0	1	1	0	0
256	2019	4	340.844	12201.67	1	1	0	0	0	1	1	0	0
257	2019	5	340.735	12218.51	1	1	0	0	0	1	1	0	0
258	2019	6	340.625	12231.20	1	1	0	0	0	1	1	0	0
259	2019	7	340.513	12239.10	1	1	0	0	0	1	1	0	0
260	2019	8	340.400	12242.32	1	1	0	0	0	1	1	0	0
261	2019	9	340.286	12241.47	1	1	0	0	0	1	1	0	0
262	2019	10	340.173	12237.41	1	1	0	0	0	1	1	0	0
263	2019	11	340.059	12230.96	1	1	0	0	0	1	1	0	0
264	2019	12	339.946	12222.88	1	1	0	0	0	1	1	0	0
265	2020	1	339.828	12213.83	1	1	0	0	0	1	1	0	0
266	2020	2	339.716	12205.05	1	1	0	0	0	1	1	0	0
267	2020	3	339.604	12197.00	1	1	0	0	0	1	1	0	0
268	2020	4	339.489	12190.33	1	1	0	0	0	1	1	0	0
269	2020	5	339.375	12186.00	1	1	0	0	0	1	1	0	0
270	2020	6	339.261	12184.76	1	1	0	0	0	1	1	0	0
271	2020	7	339.147	12187.41	1	1	0	0	0	1	1	0	0
272	2020	8	339.033	12194.27	1	1	0	0	0	1	1	0	0
273	2020	9	338.922	12204.80	1	1	0	0	0	1	1	0	0
274	2020	10	338.809	12218.72	1	1	0	0	0	1	1	0	0
275	2020	11	338.698	12235.63	1	1	0	0	0	1	1	0	0
276	2020	12	338.587	12255.17	1	1	0	0	0	1	1	0	0
277	2021	1	338.473	12277.31	1	1	0	0	0	1	1	0	0
278	2021	2	338.366	12300.15	1	1	0	0	0	1	1	0	0
279	2021	3	338.258	12324.42	1	1	0	0	0	1	1	0	0
280	2021	4	338.146	12350.59	1	1	0	0	0	1	1	0	0
281	2021	5	338.035	12377.51	1	1	0	0	0	1	1	0	0
282	2021	6	337.921	12404.79	1	1	0	0	0	1	1	0	0
283	2021	7	337.808	12432.07	1	1	0	0	0	1	1	0	0
284	2021	8	337.693	12459.53	1	1	0	0	0	1	1	0	0
285	2021	9	337.580	12486.15	1	1	0	0	0	1	1	0	0
286	2021	10	337.464	12512.24	1	1	0	0	0	1	1	0	0
287	2021	11	337.350	12537.70	1	1	0	0	0	1	1	0	0
288	2021	12	337.235	12562.39	1	1	0	0	0	1	1	0	0
289	2022	1	337.119	12586.58	1	1	0	0	0	1	1	0	0
290	2022	2	337.008	12608.65	1	1	0	0	0	1	1	0	0
291	2022	3	336.896	12629.64	1	1	0	0	0	1	1	0	0
292	2022	4	336.782	12650.13	1	1	0	0	0	1	1	0	0
293	2022	5	336.667	12669.25	1	1	0	0	0	1	1	0	0
294	2022	6	336.553	12686.89	1	1	0	0	0	1	1	0	0
295	2022	7	336.439	12702.92	1	1	0	0	0	1	1	0	0
296	2022	8	336.324	12717.62	1	1	0	0	0	1	1	0	0
297	2022	9	336.210	12730.75	1	1	0	0	0	1	1	0	0
298	2022	10	336.097	12742.78	1	1	0	0	0	1	1	0	0
299	2022	11	335.983	12753.95	1	1	0	0	0	1	1	0	0
300	2022	12	335.869	12764.48	1	1	0	0	0	1	1	0	0

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Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
301	2023	1	335.754	12774.78	1	1	0	0	0	1	1	0	0
302	2023	2	335.645	12784.42	1	1	0	0	0	1	1	0	0
303	2023	3	335.533	12794.12	1	1	0	0	0	1	1	0	0
304	2023	4	335.416	12804.45	1	1	0	0	0	1	1	0	0
305	2023	5	335.300	12815.29	1	1	0	0	0	1	1	0	0
306	2023	6	335.183	12826.90	1	1	0	0	0	1	1	0	0
307	2023	7	335.064	12839.48	1	1	0	0	0	1	1	0	0
308	2023	8	334.942	12853.33	1	1	0	0	0	1	1	0	0
309	2023	9	334.820	12867.84	1	1	0	0	0	1	1	0	0
310	2023	10	334.698	12883.11	1	1	0	0	0	1	1	0	0
311	2023	11	334.575	12898.97	1	1	0	0	0	1	1	0	0
312	2023	12	334.452	12915.26	1	1	0	0	0	1	1	0	0
313	2024	1	334.327	12932.11	1	1	0	0	0	1	1	0	0
314	2024	2	334.204	12948.55	1	1	0	0	0	1	1	0	0
315	2024	3	334.084	12964.98	1	1	0	0	0	1	1	0	0
316	2024	4	333.959	12981.51	1	1	0	0	0	1	1	0	0
317	2024	5	333.837	12997.72	1	1	0	0	0	1	1	0	0
318	2024	6	333.712	13013.47	1	1	0	0	0	1	1	0	0
319	2024	7	333.591	13028.60	1	1	0	0	0	1	1	0	0
320	2024	8	333.468	13043.30	1	1	0	0	0	1	1	0	0
321	2024	9	333.347	13057.14	1	1	0	0	0	1	1	0	0
322	2024	10	333.227	13070.44	1	1	0	0	0	1	1	0	0
323	2024	11	333.108	13083.26	1	1	0	0	0	1	1	0	0
324	2024	12	332.989	13095.65	1	1	0	0	0	1	1	0	0
325	2025	1	332.868	13107.87	1	1	0	0	0	1	1	0	0
326	2025	2	332.754	13119.21	1	1	0	0	0	1	1	0	0
327	2025	3	332.639	13130.33	1	1	0	0	0	1	1	0	0
328	2025	4	332.522	13141.64	1	1	0	0	0	1	1	0	0
329	2025	5	332.404	13152.84	1	1	0	0	0	1	1	0	0
330	2025	6	332.286	13163.99	1	1	0	0	0	1	1	0	0
331	2025	7	332.168	13175.13	1	1	0	0	0	1	1	0	0
332	2025	8	332.049	13186.50	1	1	0	0	0	1	1	0	0
333	2025	9	331.931	13197.72	1	1	0	0	0	1	1	0	0
334	2025	10	331.814	13208.98	1	1	0	0	0	1	1	0	0
335	2025	11	331.697	13220.29	1	1	0	0	0	1	1	0	0
336	2025	12	331.579	13231.65	1	1	0	0	0	1	1	0	0
337	2026	1	331.461	13243.23	1	1	0	0	0	1	1	0	0
338	2026	2	331.348	13254.31	1	1	0	0	0	1	1	0	0
339	2026	3	331.236	13265.43	1	1	0	0	0	1	1	0	0
340	2026	4	331.119	13276.97	1	1	0	0	0	1	1	0	0
341	2026	5	331.005	13288.57	1	1	0	0	0	1	1	0	0
342	2026	6	330.889	13300.22	1	1	0	0	0	1	1	0	0
343	2026	7	330.775	13311.93	1	1	0	0	0	1	1	0	0
344	2026	8	330.659	13323.91	1	1	0	0	0	1	1	0	0
345	2026	9	330.545	13335.80	1	1	0	0	0	1	1	0	0
346	2026	10	330.432	13347.82	1	1	0	0	0	1	1	0	0
347	2026	11	330.320	13360.02	1	1	0	0	0	1	1	0	0
348	2026	12	330.208	13372.42	1	1	0	0	0	1	1	0	0
349	2027	1	330.093	13385.26	1	1	0	0	0	1	1	0	0
350	2027	2	329.986	13397.74	1	1	0	0	0	1	1	0	0

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Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
351	2027	3	329.877	13410.50	1	1	0	0	0	1	1	0	0
352	2027	4	329.767	13424.02	1	1	0	0	0	1	1	0	0
353	2027	5	329.655	13437.91	1	1	0	0	0	1	1	0	0
354	2027	6	329.544	13452.19	1	1	0	0	0	1	1	0	0
355	2027	7	329.434	13466.91	1	1	0	0	0	1	1	0	0
356	2027	8	329.322	13482.28	1	1	0	0	0	1	1	0	0
357	2027	9	329.211	13497.78	1	1	0	0	0	1	1	0	0
358	2027	10	329.101	13513.57	1	1	0	0	0	1	1	0	0
359	2027	11	328.991	13529.60	1	1	0	0	0	1	1	0	0
360	2027	12	328.880	13545.80	1	1	0	0	0	1	1	0	0
361	2028	1	328.766	13562.39	1	1	0	0	0	1	1	0	0
362	2028	2	328.658	13578.50	1	1	0	0	0	1	1	0	0
363	2028	3	328.548	13594.60	1	1	0	0	0	1	1	0	0
364	2028	4	328.437	13610.91	1	1	0	0	0	1	1	0	0
365	2028	5	328.324	13627.08	1	1	0	0	0	1	1	0	0
366	2028	6	328.211	13643.08	1	1	0	0	0	1	1	0	0
367	2028	7	328.099	13658.82	1	1	0	0	0	1	1	0	0
368	2028	8	327.983	13674.55	1	1	0	0	0	1	1	0	0
369	2028	9	327.869	13689.75	1	1	0	0	0	1	1	0	0
370	2028	10	327.756	13704.70	1	1	0	0	0	1	1	0	0
371	2028	11	327.640	13719.41	1	1	0	0	0	1	1	0	0
372	2028	12	327.525	13733.88	1	1	0	0	0	1	1	0	0
373	2029	1	327.406	13748.36	1	1	0	0	0	1	1	0	0
374	2029	2	327.293	13761.94	1	1	0	0	0	1	1	0	0
375	2029	3	327.179	13775.33	1	1	0	0	0	1	1	0	0
376	2029	4	327.062	13788.98	1	1	0	0	0	1	1	0	0
377	2029	5	326.942	13802.45	1	1	0	0	0	1	1	0	0
378	2029	6	326.822	13815.75	1	1	0	0	0	1	1	0	0
379	2029	7	326.702	13828.89	1	1	0	0	0	1	1	0	0
380	2029	8	326.578	13842.10	1	1	0	0	0	1	1	0	0
381	2029	9	326.456	13854.97	1	1	0	0	0	1	1	0	0
382	2029	10	326.334	13867.76	1	1	0	0	0	1	1	0	0
383	2029	11	326.211	13880.47	1	1	0	0	0	1	1	0	0
384	2029	12	326.089	13893.14	1	1	0	0	0	1	1	0	0
385	2030	1	325.965	13906.00	1	1	0	0	0	1	1	0	0
386	2030	2	325.847	13918.25	1	1	0	0	0	1	1	0	0
387	2030	3	325.730	13930.52	1	1	0	0	0	1	1	0	0
388	2030	4	325.607	13943.27	1	1	0	0	0	1	1	0	0
389	2030	5	325.488	13956.10	1	1	0	0	0	1	1	0	0
390	2030	6	325.368	13969.04	1	1	0	0	0	1	1	0	0
391	2030	7	325.250	13982.10	1	1	0	0	0	1	1	0	0
392	2030	8	325.132	13995.53	1	1	0	0	0	1	1	0	0
393	2030	9	325.017	14008.86	1	1	0	0	0	1	1	0	0
394	2030	10	324.903	14022.30	1	1	0	0	0	1	1	0	0
395	2030	11	324.788	14035.85	1	1	0	0	0	1	1	0	0
396	2030	12	324.674	14049.48	1	1	0	0	0	1	1	0	0
397	2031	1	324.560	14063.41	1	1	0	0	0	1	1	0	0
398	2031	2	324.450	14076.72	1	1	0	0	0	1	1	0	0
399	2031	3	324.342	14090.08	1	1	0	0	0	1	1	0	0
400	2031	4	324.230	14103.92	1	1	0	0	0	1	1	0	0

OTHER ULTIMATE CUSTOMERS

EXOGENOUS VARIABLES

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
401	2031	5	324.116	14117.78	1	1	0	0	0	1	1	0	0
402	2031	6	324.003	14131.65	1	1	0	0	0	1	1	0	0
403	2031	7	323.889	14145.51	1	1	0	0	0	1	1	0	0
404	2031	8	323.774	14159.59	1	1	0	0	0	1	1	0	0
405	2031	9	323.659	14173.45	1	1	0	0	0	1	1	0	0
406	2031	10	323.544	14187.34	1	1	0	0	0	1	1	0	0
407	2031	11	323.429	14201.25	1	1	0	0	0	1	1	0	0
408	2031	12	323.313	14215.21	1	1	0	0	0	1	1	0	0
409	2032	1	323.196	14229.46	1	1	0	0	0	1	1	0	0
410	2032	2	323.082	14243.32	1	1	0	0	0	1	1	0	0
411	2032	3	322.969	14257.27	1	1	0	0	0	1	1	0	0
412	2032	4	322.856	14271.55	1	1	0	0	0	1	1	0	0
413	2032	5	322.741	14285.94	1	1	0	0	0	1	1	0	0
414	2032	6	322.628	14300.45	1	1	0	0	0	1	1	0	0
415	2032	7	322.514	14315.11	1	1	0	0	0	1	1	0	0
416	2032	8	322.399	14330.14	1	1	0	0	0	1	1	0	0
417	2032	9	322.286	14345.06	1	1	0	0	0	1	1	0	0
418	2032	10	322.174	14360.09	1	1	0	0	0	1	1	0	0
419	2032	11	322.062	14375.22	1	1	0	0	0	1	1	0	0
420	2032	12	321.952	14390.43	1	1	0	0	0	1	1	0	0
421	2033	1	321.839	14405.96	1	1	0	0	0	1	1	0	0
422	2033	2	321.731	14420.79	1	1	0	0	0	1	1	0	0
423	2033	3	321.624	14435.66	1	1	0	0	0	1	1	0	0
424	2033	4	321.513	14451.06	1	1	0	0	0	1	1	0	0
425	2033	5	321.402	14466.47	1	1	0	0	0	1	1	0	0
426	2033	6	321.292	14481.87	1	1	0	0	0	1	1	0	0
427	2033	7	321.180	14497.27	1	1	0	0	0	1	1	0	0
428	2033	8	321.068	14512.89	1	1	0	0	0	1	1	0	0
429	2033	9	320.954	14528.25	1	1	0	0	0	1	1	0	0
430	2033	10	320.843	14543.61	1	1	0	0	0	1	1	0	0
431	2033	11	320.732	14558.97	1	1	0	0	0	1	1	0	0
432	2033	12	320.620	14574.34	1	1	0	0	0	1	1	0	0
433	2034	1	320.505	14589.98	1	1	0	0	0	1	1	0	0
434	2034	2	320.399	14604.89	1	1	0	0	0	1	1	0	0
435	2034	3	320.291	14619.83	1	1	0	0	0	1	1	0	0
436	2034	4	320.179	14635.32	1	1	0	0	0	1	1	0	0
437	2034	5	320.069	14650.86	1	1	0	0	0	1	1	0	0
438	2034	6	319.956	14666.45	1	1	0	0	0	1	1	0	0
439	2034	7	319.846	14682.11	1	1	0	0	0	1	1	0	0
440	2034	8	319.733	14698.08	1	1	0	0	0	1	1	0	0
441	2034	9	319.623	14713.84	1	1	0	0	0	1	1	0	0
442	2034	10	319.513	14729.60	1	1	0	0	0	1	1	0	0
443	2034	11	319.403	14745.36	1	1	0	0	0	1	1	0	0
444	2034	12	319.292	14761.09	1	1	0	0	0	1	1	0	0
445	2035	1	319.180	14777.02	1	1	0	0	0	1	1	0	0
446	2035	2	319.072	14792.11	1	1	0	0	0	1	1	0	0
447	2035	3	318.964	14807.11	1	1	0	0	0	1	1	0	0
448	2035	4	318.852	14822.50	1	1	0	0	0	1	1	0	0
449	2035	5	318.740	14837.75	1	1	0	0	0	1	1	0	0
450	2035	6	318.627	14852.84	1	1	0	0	0	1	1	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
451	2035	7	318.512	14867.75	1	1	0	0	0	1	1	0	0
452	2035	8	318.395	14882.70	1	1	0	0	0	1	1	0	0
453	2035	9	318.278	14897.24	1	1	0	0	0	1	1	0	0
454	2035	10	318.161	14911.62	1	1	0	0	0	1	1	0	0
455	2035	11	318.042	14925.84	1	1	0	0	0	1	1	0	0
456	2035	12	317.925	14939.93	1	1	0	0	0	1	1	0	0
457	2036	1	317.802	14954.12	1	1	0	0	0	1	1	0	0
458	2036	2	317.685	14967.75	1	1	0	0	0	1	1	0	0
459	2036	3	317.565	14981.28	1	1	0	0	0	1	1	0	0
460	2036	4	317.442	14994.95	1	1	0	0	0	1	1	0	0
461	2036	5	317.319	15008.56	1	1	0	0	0	1	1	0	0
462	2036	6	317.196	15022.10	1	1	0	0	0	1	1	0	0
463	2036	7	317.073	15035.60	1	1	0	0	0	1	1	0	0
464	2036	8	316.944	15049.29	1	1	0	0	0	1	1	0	0
465	2036	9	316.820	15062.72	1	1	0	0	0	1	1	0	0
466	2036	10	316.695	15076.14	1	1	0	0	0	1	1	0	0
467	2036	11	316.568	15089.54	1	1	0	0	0	1	1	0	0
468	2036	12	316.442	15102.94	1	1	0	0	0	1	1	0	0
469	2037	1	316.313	15116.55	1	1	0	0	0	1	1	0	0
470	2037	2	316.191	15129.51	1	1	0	0	0	1	1	0	0
471	2037	3	316.069	15142.49	1	1	0	0	0	1	1	0	0
472	2037	4	315.942	15155.92	1	1	0	0	0	1	1	0	0
473	2037	5	315.817	15169.38	1	1	0	0	0	1	1	0	0
474	2037	6	315.694	15182.88	1	1	0	0	0	1	1	0	0
475	2037	7	315.568	15196.41	1	1	0	0	0	1	1	0	0
476	2037	8	315.443	15210.21	1	1	0	0	0	1	1	0	0
477	2037	9	315.320	15223.82	1	1	0	0	0	1	1	0	0
478	2037	10	315.198	15237.46	1	1	0	0	0	1	1	0	0
479	2037	11	315.076	15251.13	1	1	0	0	0	1	1	0	0
480	2037	12	314.954	15264.81	1	1	0	0	0	1	1	0	0
481	2038	1	314.830	15278.73	1	1	0	0	0	1	1	0	0
482	2038	2	314.712	15291.99	1	1	0	0	0	1	1	0	0
483	2038	3	314.595	15305.25	1	1	0	0	0	1	1	0	0
484	2038	4	314.473	15318.95	1	1	0	0	0	1	1	0	0
485	2038	5	314.352	15332.64	1	1	0	0	0	1	1	0	0
486	2038	6	314.229	15346.32	1	1	0	0	0	1	1	0	0
487	2038	7	314.107	15359.99	1	1	0	0	0	1	1	0	0
488	2038	8	313.982	15373.85	1	1	0	0	0	1	1	0	0
489	2038	9	313.859	15387.48	1	1	0	0	0	1	1	0	0
490	2038	10	313.736	15401.10	1	1	0	0	0	1	1	0	0
491	2038	11	313.613	15414.73	1	1	0	0	0	1	1	0	0
492	2038	12	313.489	15428.37	1	1	0	0	0	1	1	0	0
493	2039	1	313.363	15442.25	1	1	0	0	0	1	1	0	0
494	2039	2	313.243	15455.48	1	1	0	0	0	1	1	0	0
495	2039	3	313.124	15468.75	1	1	0	0	0	1	1	0	0
496	2039	4	312.999	15482.50	1	1	0	0	0	1	1	0	0
497	2039	5	312.875	15496.31	1	1	0	0	0	1	1	0	0
498	2039	6	312.753	15510.17	1	1	0	0	0	1	1	0	0
499	2039	7	312.628	15524.10	1	1	0	0	0	1	1	0	0
500	2039	8	312.503	15538.31	1	1	0	0	0	1	1	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
501	2039	9	312.379	15552.33	1	1	0	0	0	1	1	0	0
502	2039	10	312.254	15566.38	1	1	0	0	0	1	1	0	0
503	2039	11	312.132	15580.43	1	1	0	0	0	1	1	0	0
504	2039	12	312.009	15594.46	1	1	0	0	0	1	1	0	0
505	2040	1	311.882	15608.69	1	1	0	0	0	1	1	0	0
506	2040	2	311.761	15622.41	1	1	0	0	0	1	1	0	0
507	2040	3	311.640	15636.06	1	1	0	0	0	1	1	0	0
508	2040	4	311.517	15649.84	1	1	0	0	0	1	1	0	0
509	2040	5	311.394	15663.52	1	1	0	0	0	1	1	0	0
510	2040	6	311.270	15677.08	1	1	0	0	0	1	1	0	0
511	2040	7	311.146	15690.48	1	1	0	0	0	1	1	0	0
512	2040	8	311.022	15703.96	1	1	0	0	0	1	1	0	0
513	2040	9	310.898	15717.09	1	1	0	0	0	1	1	0	0
514	2040	10	310.775	15730.11	1	1	0	0	0	1	1	0	0
515	2040	11	310.651	15743.03	1	1	0	0	0	1	1	0	0
516	2040	12	310.527	15755.88	1	1	0	0	0	1	1	0	0
517	2041	1	310.402	15768.87	1	1	0	0	0	1	1	0	0
518	2041	2	310.281	15781.20	1	1	0	0	0	1	1	0	0
519	2041	3	310.160	15793.49	1	1	0	0	0	1	1	0	0
520	2041	4	310.034	15806.20	1	1	0	0	0	1	1	0	0
521	2041	5	309.909	15818.91	1	1	0	0	0	1	1	0	0
522	2041	6	309.783	15831.64	1	1	0	0	0	1	1	0	0
523	2041	7	309.656	15844.41	1	1	0	0	0	1	1	0	0
524	2041	8	309.525	15857.44	1	1	0	0	0	1	1	0	0
525	2041	9	309.396	15870.29	1	1	0	0	0	1	1	0	0
526	2041	10	309.267	15883.17	1	1	0	0	0	1	1	0	0
527	2041	11	309.138	15896.04	1	1	0	0	0	1	1	0	0
528	2041	12	309.008	15908.92	1	1	0	0	0	1	1	0	0
529	2042	1	308.875	15921.99	1	1	0	0	0	1	1	0	0
530	2042	2	308.748	15934.40	1	1	0	0	0	1	1	0	0
531	2042	3	308.620	15946.77	1	1	0	0	0	1	1	0	0
532	2042	4	308.486	15959.51	1	1	0	0	0	1	1	0	0
533	2042	5	308.352	15972.18	1	1	0	0	0	1	1	0	0
534	2042	6	308.217	15984.77	1	1	0	0	0	1	1	0	0
535	2042	7	308.082	15997.28	1	1	0	0	0	1	1	0	0
536	2042	8	307.943	16009.90	1	1	0	0	0	1	1	0	0
537	2042	9	307.807	16022.23	1	1	0	0	0	1	1	0	0
538	2042	10	307.668	16034.48	1	1	0	0	0	1	1	0	0
539	2042	11	307.530	16046.66	1	1	0	0	0	1	1	0	0
540	2042	12	307.390	16058.77	1	1	0	0	0	1	1	0	0
541	2043	1	307.247	16071.03	1	1	0	0	0	1	1	0	0
542	2043	2	307.111	16082.65	1	1	0	0	0	1	1	0	0
543	2043	3	306.975	16094.22	1	1	0	0	0	1	1	0	0
544	2043	4	306.831	16106.16	1	1	0	0	0	1	1	0	0
545	2043	5	306.689	16118.06	1	1	0	0	0	1	1	0	0
546	2043	6	306.545	16129.95	1	1	0	0	0	1	1	0	0
547	2043	7	306.400	16141.82	1	1	0	0	0	1	1	0	0
548	2043	8	306.254	16153.88	1	1	0	0	0	1	1	0	0
549	2043	9	306.107	16165.72	1	1	0	0	0	1	1	0	0
550	2043	10	305.961	16177.55	1	1	0	0	0	1	1	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
551	2043	11	305.815	16189.35	1	1	0	0	0	1	1	0	0
552	2043	12	305.667	16201.12	1	1	0	0	0	1	1	0	0
553	2044	1	305.518	16213.06	1	1	0	0	0	1	1	0	0
554	2044	2	305.372	16224.58	1	1	0	0	0	1	1	0	0
555	2044	3	305.226	16236.05	1	1	0	0	0	1	1	0	0
556	2044	4	305.079	16247.68	1	1	0	0	0	1	1	0	0
557	2044	5	304.930	16259.26	1	1	0	0	0	1	1	0	0
558	2044	6	304.781	16270.80	1	1	0	0	0	1	1	0	0
559	2044	7	304.632	16282.27	1	1	0	0	0	1	1	0	0
560	2044	8	304.480	16293.88	1	1	0	0	0	1	1	0	0
561	2044	9	304.331	16305.26	1	1	0	0	0	1	1	0	0
562	2044	10	304.182	16316.61	1	1	0	0	0	1	1	0	0
563	2044	11	304.033	16327.92	1	1	0	0	0	1	1	0	0
564	2044	12	303.884	16339.21	1	1	0	0	0	1	1	0	0
565	2045	1	303.731	16350.67	1	1	0	0	0	1	1	0	0
566	2045	2	303.587	16361.57	1	1	0	0	0	1	1	0	0
567	2045	3	303.443	16372.47	1	1	0	0	0	1	1	0	0
568	2045	4	303.293	16383.75	1	1	0	0	0	1	1	0	0
569	2045	5	303.143	16395.05	1	1	0	0	0	1	1	0	0
570	2045	6	302.993	16406.37	1	1	0	0	0	1	1	0	0
571	2045	7	302.843	16417.72	1	1	0	0	0	1	1	0	0
572	2045	8	302.691	16429.29	1	1	0	0	0	1	1	0	0
573	2045	9	302.541	16440.71	1	1	0	0	0	1	1	0	0
574	2045	10	302.391	16452.14	1	1	0	0	0	1	1	0	0
575	2045	11	302.240	16463.60	1	1	0	0	0	1	1	0	0
576	2045	12	302.089	16475.07	1	1	0	0	0	1	1	0	0
577	2046	1	301.936	16486.74	1	1	0	0	0	1	1	0	0
578	2046	2	301.790	16497.85	1	1	0	0	0	1	1	0	0
579	2046	3	301.645	16508.97	1	1	0	0	0	1	1	0	0
580	2046	4	301.494	16520.45	1	1	0	0	0	1	1	0	0
581	2046	5	301.342	16531.92	1	1	0	0	0	1	1	0	0
582	2046	6	301.191	16543.38	1	1	0	0	0	1	1	0	0
583	2046	7	301.041	16554.83	1	1	0	0	0	1	1	0	0
584	2046	8	300.888	16566.44	1	1	0	0	0	1	1	0	0
585	2046	9	300.736	16577.85	1	1	0	0	0	1	1	0	0
586	2046	10	300.584	16589.25	1	1	0	0	0	1	1	0	0
587	2046	11	300.434	16600.64	1	1	0	0	0	1	1	0	0
588	2046	12	300.282	16612.03	1	1	0	0	0	1	1	0	0
589	2047	1	300.128	16623.62	1	1	0	0	0	1	1	0	0
590	2047	2	299.983	16634.65	1	1	0	0	0	1	1	0	0
591	2047	3	299.837	16645.69	1	1	0	0	0	1	1	0	0
592	2047	4	299.686	16657.12	1	1	0	0	0	1	1	0	0
593	2047	5	299.534	16668.57	1	1	0	0	0	1	1	0	0
594	2047	6	299.384	16680.05	1	1	0	0	0	1	1	0	0
595	2047	7	299.233	16691.56	1	1	0	0	0	1	1	0	0
596	2047	8	299.081	16703.29	1	1	0	0	0	1	1	0	0
597	2047	9	298.931	16714.88	1	1	0	0	0	1	1	0	0
598	2047	10	298.781	16726.50	1	1	0	0	0	1	1	0	0
599	2047	11	298.632	16738.18	1	1	0	0	0	1	1	0	0
600	2047	12	298.483	16749.90	1	1	0	0	0	1	1	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
601	2048	1	298.331	16761.88	1	1	0	0	0	1	1	0	0
602	2048	2	298.185	16773.53	1	1	0	0	0	1	1	0	0
603	2048	3	298.039	16785.24	1	1	0	0	0	1	1	0	0
604	2048	4	297.892	16797.22	1	1	0	0	0	1	1	0	0
605	2048	5	297.744	16809.27	1	1	0	0	0	1	1	0	0
606	2048	6	297.598	16821.40	1	1	0	0	0	1	1	0	0
607	2048	7	297.450	16833.62	1	1	0	0	0	1	1	0	0
608	2048	8	297.303	16846.12	1	1	0	0	0	1	1	0	0
609	2048	9	297.157	16858.52	1	1	0	0	0	1	1	0	0
610	2048	10	297.012	16871.01	1	1	0	0	0	1	1	0	0
611	2048	11	296.868	16883.61	1	1	0	0	0	1	1	0	0
612	2048	12	296.723	16896.31	1	1	0	0	0	1	1	0	0
613	2049	1	296.545	16901.37	1	1	0	0	0	1	1	0	0
614	2049	2	296.398	16913.66	1	1	0	0	0	1	1	0	0
615	2049	3	296.252	16926.05	1	1	0	0	0	1	1	0	0
616	2049	4	296.109	16938.58	1	1	0	0	0	1	1	0	0
617	2049	5	295.965	16951.24	1	1	0	0	0	1	1	0	0
618	2049	6	295.823	16964.03	1	1	0	0	0	1	1	0	0
619	2049	7	295.678	16976.97	1	1	0	0	0	1	1	0	0
620	2049	8	295.536	16990.25	1	1	0	0	0	1	1	0	0
621	2049	9	295.394	17003.47	1	1	0	0	0	1	1	0	0
622	2049	10	295.254	17016.85	1	1	0	0	0	1	1	0	0
623	2049	11	295.115	17030.38	1	1	0	0	0	1	1	0	0
624	2049	12	294.974	17044.07	1	1	0	0	0	1	1	0	0
625	2050	1	294.771	17042.12	1	1	0	0	0	1	1	0	0
626	2050	2	294.623	17055.04	1	1	0	0	0	1	1	0	0
627	2050	3	294.477	17068.13	1	1	0	0	0	1	1	0	0
628	2050	4	294.338	17081.22	1	1	0	0	0	1	1	0	0
629	2050	5	294.198	17094.49	1	1	0	0	0	1	1	0	0
630	2050	6	294.060	17107.96	1	1	0	0	0	1	1	0	0
631	2050	7	293.918	17121.62	1	1	0	0	0	1	1	0	0
632	2050	8	293.780	17135.70	1	1	0	0	0	1	1	0	0
633	2050	9	293.642	17149.76	1	1	0	0	0	1	1	0	0
634	2050	10	293.507	17164.03	1	1	0	0	0	1	1	0	0
635	2050	11	293.373	17178.51	1	1	0	0	0	1	1	0	0
636	2050	12	293.236	17193.20	1	1	0	0	0	1	1	0	0
637	2051	1	293.008	17184.13	1	1	0	0	0	1	1	0	0
638	2051	2	292.859	17197.70	1	1	0	0	0	1	1	0	0
639	2051	3	292.713	17211.48	1	1	0	0	0	1	1	0	0
640	2051	4	292.578	17225.14	1	1	0	0	0	1	1	0	0
641	2051	5	292.441	17239.04	1	1	0	0	0	1	1	0	0
642	2051	6	292.307	17253.19	1	1	0	0	0	1	1	0	0
643	2051	7	292.168	17267.59	1	1	0	0	0	1	1	0	0
644	2051	8	292.036	17282.48	1	1	0	0	0	1	1	0	0
645	2051	9	291.901	17297.39	1	1	0	0	0	1	1	0	0
646	2051	10	291.771	17312.57	1	1	0	0	0	1	1	0	0
647	2051	11	291.642	17328.00	1	1	0	0	0	1	1	0	0
648	2051	12	291.508	17343.72	1	1	0	0	0	1	1	0	0
649	2052	1	291.256	17327.41	1	1	0	0	0	1	1	0	0
650	2052	2	291.106	17341.64	1	1	0	0	0	1	1	0	0

Obs	YEAR	MONTH	N_IMM	gdp_imm	d04on	d07on	oct13	nov13	jan98	d12on	d17on	may18	apr18
651	2052	3	290.960	17356.14	1	1	0	0	0	1	1	0	0
652	2052	4	290.828	17370.37	1	1	0	0	0	1	1	0	0
653	2052	5	290.696	17384.90	1	1	0	0	0	1	1	0	0
654	2052	6	290.566	17399.74	1	1	0	0	0	1	1	0	0
655	2052	7	290.429	17414.90	1	1	0	0	0	1	1	0	0
656	2052	8	290.302	17430.60	1	1	0	0	0	1	1	0	0
657	2052	9	290.171	17446.37	1	1	0	0	0	1	1	0	0
658	2052	10	290.046	17462.47	1	1	0	0	0	1	1	0	0
659	2052	11	289.921	17478.88	1	1	0	0	0	1	1	0	0
660	2052	12	289.792	17495.63	1	1	0	0	0	1	1	0	0
661	2053	1	289.515	17471.98	1	1	0	0	0	1	1	0	0
662	2053	2	289.364	17486.88	1	1	0	0	0	1	1	0	0
663	2053	3	289.218	17502.09	1	1	0	0	0	1	1	0	0
664	2053	4	289.090	17516.91	1	1	0	0	0	1	1	0	0
665	2053	5	288.962	17532.08	1	1	0	0	0	1	1	0	0
666	2053	6	288.835	17547.63	1	1	0	0	0	1	1	0	0
667	2053	7	288.701	17563.54	1	1	0	0	0	1	1	0	0
668	2053	8	288.579	17580.08	1	1	0	0	0	1	1	0	0
669	2053	9	288.452	17596.71	1	1	0	0	0	1	1	0	0
670	2053	10	288.331	17613.76	1	1	0	0	0	1	1	0	0
671	2053	11	288.211	17631.16	1	1	0	0	0	1	1	0	0
672	2053	12	288.085	17648.96	1	1	0	0	0	1	1	0	0
673	2054	1	287.785	17617.84	1	1	0	0	0	1	1	0	0
674	2054	2	287.633	17633.42	1	1	0	0	0	1	1	0	0
675	2054	3	287.487	17649.37	1	1	0	0	0	1	1	0	0
676	2054	4	287.363	17664.78	1	1	0	0	0	1	1	0	0
677	2054	5	287.238	17680.60	1	1	0	0	0	1	1	0	0
678	2054	6	287.115	17696.86	1	1	0	0	0	1	1	0	0
679	2054	7	286.985	17713.54	1	1	0	0	0	1	1	0	0
680	2054	8	286.866	17730.92	1	1	0	0	0	1	1	0	0
681	2054	9	286.743	17748.44	1	1	0	0	0	1	1	0	0
682	2054	10	286.627	17766.44	1	1	0	0	0	1	1	0	0
683	2054	11	286.512	17784.84	1	1	0	0	0	1	1	0	0
684	2054	12	286.390	17803.71	1	1	0	0	0	1	1	0	0

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model		cu_imm
Dependent Variable		cu_imm
Label	Other Retail Customers	

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	71641.68	7164.168	482.21	<.0001
Error	241	3580.557	14.85708		
Corrected Total	251	75222.23			

Root MSE	3.85449	R-Square	0.95240
Dependent Mean	339.31349	Adj R-Sq	0.95043
Coeff Var	1.13597		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	257.6197	13.44219	19.17	<.0001	Intercept
ngdpindx	1	71.86620	13.68516	5.25	<.0001	Service Area Population and Gross Regional Product Index
jan98	1	136.4189	3.941211	34.61	<.0001	Binary Variable - January 1998
d04on	1	11.90902	0.832127	14.31	<.0001	Binary Variable - 2004 On
d07on	1	4.182480	0.882280	4.74	<.0001	Binary Variable - 2007 On
d12on	1	-1.55151	0.723238	-2.15	0.0329	Binary Variable - 2012 On
oct13	1	15.60459	3.887715	4.01	<.0001	Binary Variable - October 2013
nov13	1	-0.45188	3.887639	-0.12	0.9076	Binary Variable - November 2013
d17on	1	1.250538	1.019558	1.23	0.2212	Binary Variable - 2017 On
apr18	1	-125.606	3.941134	-31.87	<.0001	Binary Variable - April 2018
may18	1	169.3164	3.941205	42.96	<.0001	Binary Variable - Myay 2018

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Durbin-Watson	0.741652
Number of Observations	252
First-Order Autocorrelation	0.629168

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 MODEL RESIDUALS

Trend		Residual Values Sum
1998.000000		0.00000
1998.0833333	*****	-3.55462
1998.1666667	*	-0.55482
1998.2500000	***	1.41085
1998.3333333	***	-1.66511
1998.4166667	*****	3.21177
1998.5000000		0.03484
1998.5833333	****	-2.19923
1998.6666667	*****	2.52516
1998.7500000	*****	-2.78761
1998.8333333	*****	-8.12853
1998.9166667	*****	-5.48928
1999.0000000	*****	-7.74496
1999.0833333	*****	-8.15289
1999.1666667	*****	-3.56320
1999.2500000	*****	-8.98069
1999.3333333	*****	-9.38113
1999.4166667	*****	-4.75428
1999.5000000	*****	-9.09050
1999.5833333	*****	-5.38821
1999.6666667	*****	-5.63709
1999.7500000	*****	-2.84121
1999.8333333	*****	-4.00027
1999.9166667	*****	-7.11352
2000.0000000	*****	-4.06131
2000.0833333	****	-2.12947
2000.1666667	*****	-5.15854
2000.2500000	*****	-4.14697
2000.3333333	*****	-5.09109
2000.4166667	*****	-5.98804
2000.5000000	*****	-5.83561
2000.5833333	*****	-5.63399
2000.6666667	*****	-5.39832
2000.7500000	*****	-5.13491
2000.8333333	*****	-4.85324
2000.9166667	*****	-3.56270
2001.0000000	*****	-3.14542
2001.0833333	*****	-2.91881
2001.1666667	*****	-2.71588
2001.2500000	*****	-2.53771
2001.3333333	***	-1.39985
2001.4166667	***	-1.30881
2001.5000000	*****	5.72759
2001.5833333	*	0.70930
2001.6666667	*****	-4.35508
2001.7500000	*****	8.54212
2001.8333333	*****	3.41030
2001.9166667	*****	4.25763
2002.0000000	*****	3.21185

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 MODEL RESIDUALS

2002.0833333		****	2.00299
2002.1666667		*****	10.79143
2002.2500000		*****	2.57958
2002.3333333		*****	3.38467
2002.4166667		*****	6.21742
2002.5000000		*****	6.08744
2002.5833333		*****	5.99662
2002.6666667		*****	6.94397
2002.7500000		*****	6.92262
2002.8333333		*****	5.92755
2002.9166667		*****	5.95387
2003.0000000		*****	6.11861
2003.0833333		*****	5.12474
2003.1666667		*****	7.13083
2003.2500000		*****	6.13363
2003.3333333		*****	5.12961
2003.4166667		*****	7.11612
2003.5000000		*****	6.09027
2003.5833333		*****	6.05078
2003.6666667		*****	8.00217
2003.7500000		*****	7.94595
2003.8333333		*****	7.88601
2003.9166667		*****	7.82460
2004.0000000		*****	-4.02399
2004.0833333	*****	*****	-5.12534
2004.1666667		****	-2.22653
2004.2500000		*****	-4.32523
2004.3333333		*****	-4.41451
2004.4166667		*****	3.51041
2004.5000000		*****	-3.54576
2004.5833333		*****	-3.58203
2004.6666667		*****	-2.59869
2004.7500000		*****	-3.59853
2004.8333333		*	0.41651
2004.9166667		*****	-2.55512
2005.0000000		*****	17.60512
2005.0833333		*	0.60512
2005.1666667		***	-1.39488
2005.2500000		*****	2.60512
2005.3333333		***	1.60512
2005.4166667		*	-0.39488
2005.5000000		*	-0.39488
2005.5833333		*	0.60512
2005.6666667		*****	2.60512
2005.7500000		*	0.60512
2005.8333333		*	-0.39488
2005.9166667		***	1.60512
2006.0000000		*	0.72490
2006.0833333		*	-0.32203
2006.1666667		*	0.62401
2006.2500000		*****	7.56320
2006.3333333		***	1.49842

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 MODEL RESIDUALS

2006.4166667		*	0.43218
2006.5000000		*	0.36603
2006.5833333	***		-1.69953
2006.6666667			0.23842
2006.7500000	**		-0.82009
2006.8333333	**		-0.87435
2006.9166667	**		-0.92373
2007.0000000	*****		-6.03159
2007.0833333	*****		-7.11491
2007.1666667	*****		-5.19822
2007.2500000	*****		-3.28170
2007.3333333	***		1.63984
2007.4166667	***		1.56962
2007.5000000	***		1.51061
2007.5833333	*****		2.46518
2007.6666667	*****		2.43990
2007.7500000	*****		3.43837
2007.8333333	*****		4.46489
2007.9166667	*****		2.52437
2008.0000000	*****		2.74111
2008.0833333	*****		4.82891
2008.1666667	*****		3.95484
2008.2500000	*****		3.12697
2008.3333333	*****		2.35119
2008.4166667	*****		2.63344
2008.5000000	*****		2.97992
2008.5833333	*****		2.39296
2008.6666667	****		1.84543
2008.7500000	***		1.32831
2008.8333333	****		1.82646
2008.9166667	***		-1.67504
2009.0000000	*****		4.93847
2009.0833333	***		1.33498
2009.1666667	*****		3.68391
2009.2500000	****		1.98297
2009.3333333	*****		6.20515
2009.4166667	*****		5.33814
2009.5000000	*****		5.36873
2009.5833333	*****		2.29590
2009.6666667	****		2.13672
2009.7500000	**		0.90557
2009.8333333	*		0.61941
2009.9166667	*		0.29319
2010.0000000	**		-0.94127
2010.0833333	*****		-3.33196
2010.1666667	*****		4.27686
2010.2500000	**		0.88853
2010.3333333	*		-0.46616
2010.4166667	*****		-2.76967
2010.5000000	****		-2.00514
2010.5833333	**		0.83111
2010.6666667	*****		-4.26144

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 MODEL RESIDUALS

2010.750000	*****	-3.29257
2010.833333	*****	-2.26951
2010.916667	*****	-5.19920
2011.000000	*****	-4.96736
2011.083333	*****	-9.87424
2011.166667	*****	4.23761
2011.250000	*****	-3.63264
2011.333333	*****	-3.49343
2011.416667	*****	-4.34996
2011.500000	*****	-4.20705
2011.583333	****	-2.06574
2011.666667	*****	-3.93114
2011.750000	*****	-3.80172
2011.833333	*****	-3.67787
2011.916667	*****	-3.56006
2012.000000	**	-0.77551
2012.083333	***	-1.71802
2012.166667	***	-1.67435
2012.250000	***	-1.64358
2012.333333	*	0.37477
2012.416667	*****	-2.61760
2012.500000	*****	4.38031
2012.583333	*	0.36949
2012.666667	*	0.35154
2012.750000	*	0.32761
2012.833333	*	0.29879
2012.916667	*	0.26645
2013.000000	*	-0.64912
2013.083333	***	-1.72776
2013.166667		0.18702
2013.250000		0.09494
2013.333333	**	-0.99848
2013.416667	**	-1.08992
2013.500000	**	-1.17659
2013.583333	***	-1.25797
2013.666667	***	-1.33058
2013.750000		0.00000
2013.833333		0.00000
2013.916667	*	0.50078
2014.000000	*	-0.41882
2014.083333	*	-0.49106
2014.166667	*****	-2.55970
2014.250000	***	-1.62531
2014.333333	*	-0.68304
2014.416667	*	-0.73039
2014.500000	**	-0.76511
2014.583333		0.21266
2014.666667		0.20277
2014.750000	**	1.20266
2014.833333	**	1.21096
2014.916667		0.22609
2015.000000	*****	2.36468

2015.0833333	***	1.34236
2015.1666667	***	1.31512
2015.2500000	***	1.28220
2015.3333333	**	1.24424
2015.4166667	**	1.20219
2015.5000000	**	1.15551
2015.5833333	**	1.10432
2015.6666667		0.05148
2015.7500000		-0.00287
2015.8333333	**	0.94283
2015.9166667		-0.11061
2016.0000000		-0.04599
2016.0833333	**	-1.13962
2016.1666667	**	0.76430
2016.2500000	***	-1.33413
2016.3333333	*	0.57039
2016.4166667	*	0.48097
2016.5000000	*	0.40033
2016.5833333	*	0.32890
2016.6666667	*	0.26879
2016.7500000		0.21839
2016.8333333		0.17719
2016.9166667	**	1.14513
2017.0000000		-0.01304
2017.0833333		-0.07455
2017.1666667		-0.13559
2017.2500000		-0.19678
2017.3333333	*	-0.25497
2017.4166667	*	-0.30798
2017.5000000	*	-0.35494
2017.5833333	*	-0.39571
2017.6666667	*	-0.42962
2017.7500000	*	-0.45839
2017.8333333	*	-0.48248
2017.9166667	***	1.49732
2018.0000000	*	0.59607
2018.0833333	*	-0.46530
2018.1666667	***	1.46772
2018.2500000		0.00000
2018.3333333		0.00000
2018.4166667		0.23640
2018.5000000		0.15505
2018.5833333		0.07246
2018.6666667		-0.00685
2018.7500000		-0.08222
2018.8333333		-0.15205
2018.9166667		-0.21453



Residual Values

INDIANA MICHIGAN COMPANY - MICHIGAN
 OTHER ULTIMATE CUSTOMERS
 ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
1998	335.083	.
1999	322.333	-3.8
2000	324.917	0.8
2001	327.917	0.9
2002	334.167	1.9
2003	335.667	0.4
2004	338.750	0.9
2005	343.500	1.4
2006	342.167	-0.4
2007	346.250	1.2
2008	347.250	0.3
2009	344.083	-0.9
2010	342.000	-0.6
2011	339.667	-0.7
2012	340.500	0.2
2013	341.750	0.4
2014	341.333	-0.1
2015	342.833	0.4
2016	342.667	0.0
2017	344.167	0.4
2018	348.583	1.3
2019	345.433	-0.9
2020	345.278	0.0
2021	345.785	0.1
2022	346.459	0.2
2023	346.777	0.1
2024	347.173	0.1
2025	347.487	0.1
2026	347.760	0.1
2027	348.093	0.1
2028	348.526	0.1
2029	348.905	0.1
2030	349.227	0.1
2031	349.579	0.1
2032	349.954	0.1
2033	350.366	0.1
2034	350.791	0.1
2035	351.215	0.1
2036	351.582	0.1
2037	351.918	0.1
2038	352.263	0.1
2039	352.610	0.1
2040	352.961	0.1
2041	353.279	0.1
2042	353.580	0.1
2043	353.849	0.1
2044	354.094	0.1
2045	354.324	0.1
2046	354.554	0.1

INDIANA MICHIGAN POWER COMPANY - MICHIGAN
OTHER ULTIMATE CUSTOMERS
ACTUAL AND FORECAST

YEAR	CUSTOMERS	GROWTH RATE
2047	354.785	0.1
2048	355.033	0.1
2049	355.286	0.1
2050	355.544	0.1
2051	355.808	0.1
2052	356.076	0.1
2053	356.350	0.1
2054	356.629	0.1

LONG-TERM RESIDENTIAL ENERGY

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	FebD06on	JanD06on
2005	1	1,222,104,189.70	493.29	0.00	688.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	1,104,677,456.17	558.02	0.00	612.51	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	3	1,027,179,471.54	443.31	0.00	598.16	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	4	864,178,503.18	237.30	3.05	602.04	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	5	737,439,247.43	97.97	35.65	570.76	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	6	842,535,974.44	16.30	277.10	591.16	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	7	1,154,990,162.86	0.00	899.96	579.78	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	8	1,166,756,969.35	0.00	1,012.78	543.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2005	9	1,042,947,645.99	0.00	620.31	581.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2005	10	808,878,202.76	13.48	287.70	581.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2005	11	770,586,960.83	118.72	23.28	588.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2005	12	1,113,492,084.97	421.38	0.00	661.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	1	1,261,765,924.71	445.93	0.00	690.61	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2006	2	1,029,995,482.57	365.88	0.00	610.78	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2006	3	1,010,864,730.82	408.76	0.00	598.27	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	4	827,744,586.94	230.01	3.15	575.19	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	5	708,201,048.18	48.98	6.08	586.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	6	851,210,986.07	18.97	274.13	591.55	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	7	1,020,497,358.73	0.00	636.14	569.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	8	1,168,596,592.07	0.00	952.82	553.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2006	9	940,085,420.20	1.08	395.10	579.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2006	10	715,642,943.38	37.29	36.31	569.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2006	11	850,916,498.38	195.22	3.33	595.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2006	12	1,079,823,341.38	287.31	0.00	666.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	1	1,171,404,713.32	328.47	0.00	684.96	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2007	2	1,256,888,620.08	596.68	0.00	622.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2007	3	1,120,964,281.52	546.88	0.21	598.88	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	4	867,673,200.49	205.16	13.15	596.12	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	5	757,499,019.57	77.90	66.27	579.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	6	893,106,273.56	5.37	470.16	584.42	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	7	1,050,550,772.61	0.00	689.42	571.04	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	8	1,101,282,504.46	0.00	816.24	555.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2007	9	1,066,945,212.77	0.95	682.48	580.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	FebD06on	JanD06on
2016	1	1,104,782,673.75	384.58	0.00	658.72	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2016	2	1,053,799,146.75	534.21	0.00	589.40	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2016	3	890,847,862.62	365.38	0.00	581.30	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	4	769,544,117.50	195.77	0.00	588.33	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	5	653,378,542.33	79.20	5.66	561.72	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	6	814,516,167.53	14.03	411.08	583.12	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	7	983,451,672.82	0.00	689.89	567.80	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	8	1,112,863,207.36	0.00	1,021.10	547.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2016	9	1,019,460,491.29	0.00	767.89	571.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2016	10	757,062,372.30	4.77	298.12	569.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2016	11	658,408,576.19	77.97	50.04	572.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2016	12	994,599,588.76	347.48	2.00	654.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	1	1,192,338,328.23	523.91	0.00	654.33	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2017	2	943,631,609.48	398.12	0.00	577.03	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2017	3	831,195,351.09	304.08	0.00	567.68	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	4	751,266,213.88	214.52	12.62	569.56	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	5	634,798,535.61	55.92	83.39	549.99	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	6	751,357,978.08	10.98	319.24	569.73	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	7	945,008,229.94	0.00	699.48	568.22	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	8	959,416,870.51	0.00	653.70	545.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2017	9	810,189,291.52	0.00	313.47	563.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2017	10	754,252,784.64	2.57	329.88	564.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2017	11	705,255,103.73	152.51	35.45	560.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2017	12	981,875,558.94	325.99	0.00	644.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	1	1,280,620,437.65	663.24	0.00	648.48	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2018	2	1,029,745,458.34	550.22	0.00	571.37	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2018	3	894,667,193.36	379.42	0.00	565.92	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	4	866,926,581.40	334.70	1.27	575.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	5	687,187,443.53	114.87	70.61	555.54	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	6	855,072,297.46	1.21	560.73	572.67	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	7	1,040,131,574.87	0.00	898.08	554.71	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	8	982,338,864.91	0.00	753.34	543.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2018	9	984,976,662.13	0.00	773.64	559.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	FebD06on	JanD06on
2027	1		490.38	0.00	613.18	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2027	2		523.71	0.00	543.66	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2027	3		420.70	0.95	536.14	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	4		234.75	7.90	537.83	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	5		74.70	55.64	528.83	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	6		10.46	299.54	542.51	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	7		0.13	692.05	532.84	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	8		0.00	726.72	511.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2027	9		0.46	512.50	530.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2027	10		25.73	153.64	525.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2027	11		137.14	14.67	527.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2027	12		327.49	0.19	595.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	1		487.83	0.00	612.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2028	2		521.00	0.00	542.85	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2028	3		418.53	0.95	535.41	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	4		233.54	7.93	537.20	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	5		74.31	55.82	528.30	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	6		10.40	300.48	542.07	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	7		0.13	694.23	532.47	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	8		0.00	729.00	511.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2028	9		0.46	514.11	530.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2028	10		25.60	154.12	524.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2028	11		136.43	14.71	526.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2028	12		325.87	0.19	595.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	1		485.27	0.00	613.16	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2029	2		518.29	0.00	543.76	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2029	3		416.39	0.95	536.34	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	4		232.37	7.96	538.21	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	5		73.95	56.05	529.33	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	6		10.35	301.76	543.16	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	7		0.13	697.22	533.59	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	8		0.00	732.19	512.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2029	9		0.46	516.38	531.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	FebD06on	JanD06on
2038	1		467.24	0.00	620.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2038	2		499.04	0.00	550.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2038	3		400.93	1.01	543.70	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	4		223.74	8.39	546.44	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	5		71.20	59.07	538.43	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	6		9.97	318.01	553.64	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	7		0.12	734.77	544.49	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	8		0.00	771.62	522.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2038	9		0.44	544.19	541.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2038	10		24.54	163.15	534.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2038	11		130.78	15.58	535.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2038	12		312.51	0.20	603.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	1		465.97	0.00	622.45	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2039	2		497.68	0.00	552.64	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2039	3		399.83	1.01	545.73	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	4		223.13	8.44	548.53	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	5		71.01	59.43	540.56	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	6		9.94	319.92	555.89	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	7		0.12	739.18	546.76	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2039	8		0.00	776.26	524.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2039	9		0.44	547.47	543.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2039	10		24.47	164.13	536.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2039	11		130.43	15.67	537.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2039	12		311.75	0.20	606.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	1		465.01	0.00	622.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2040	2		496.68	0.00	553.14	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2040	3		399.03	1.02	546.32	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	4		222.68	8.49	549.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	5		70.86	59.79	541.43	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	6		9.92	321.89	557.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	7		0.12	743.72	547.93	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2040	8		0.00	781.02	525.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2040	9		0.44	550.82	544.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	FebD06on	JanD06on
2049	1		457.32	0.00	640.18	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2049	2		488.42	0.00	568.88	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2049	3		392.37	1.07	562.26	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2049	4		218.94	8.90	565.85	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2049	5		69.67	62.64	558.47	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2049	6		9.75	337.18	575.34	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2049	7		0.12	779.01	566.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2049	8		0.00	818.01	543.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2049	9		0.43	576.86	562.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2049	10		24.00	172.93	553.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2049	11		127.89	16.51	553.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2049	12		305.38	0.21	623.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	1		456.74	0.00	642.78	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2050	2		487.79	0.00	571.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2050	3		391.86	1.07	564.57	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	4		218.65	8.94	568.22	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	5		69.57	62.93	560.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	6		9.74	338.77	577.80	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	7		0.12	782.65	568.94	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	8		0.00	821.81	545.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2050	9		0.43	579.52	564.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2050	10		23.96	173.72	556.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2050	11		127.69	16.58	555.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2050	12		304.89	0.21	625.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	1		457.83	0.00	645.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2051	2		488.96	0.00	573.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2051	3		392.79	1.08	566.75	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	4		219.17	8.99	570.45	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	5		69.74	63.30	563.08	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	6		9.76	340.72	580.16	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	7		0.12	787.14	571.31	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2051	8		0.00	826.51	548.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2051	9		0.43	582.82	566.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2013	4	0.00	0.00	0.00	0.00	0.00	0	0
2013	5	0.00	0.00	1.00	0.00	0.00	0	0
2013	6	0.00	0.00	1.00	0.00	0.00	0	0
2013	7	0.00	1.00	1.00	0.00	0.00	0	0
2013	8	0.00	0.00	1.00	0.00	0.00	0	0
2013	9	0.00	0.00	1.00	0.00	0.00	0	0
2013	10	0.00	0.00	1.00	0.00	0.00	0	0
2013	11	0.00	0.00	1.00	0.00	0.00	0	0
2013	12	0.00	0.00	1.00	0.00	0.00	0	0
2014	1	0.00	0.00	1.00	0.00	0.00	0	0
2014	2	0.00	0.00	1.00	0.00	0.00	0	0
2014	3	0.00	0.00	1.00	0.00	0.00	0	0
2014	4	0.00	0.00	1.00	0.00	0.00	0	0
2014	5	0.00	0.00	1.00	0.00	0.00	0	0
2014	6	0.00	0.00	1.00	0.00	0.00	0	0
2014	7	0.00	1.00	1.00	0.00	0.00	0	0
2014	8	0.00	0.00	1.00	0.00	0.00	0	0
2014	9	0.00	0.00	1.00	0.00	0.00	0	0
2014	10	0.00	0.00	1.00	0.00	0.00	0	0
2014	11	0.00	0.00	1.00	0.00	0.00	0	0
2014	12	0.00	0.00	1.00	0.00	0.00	0	0
2015	1	0.00	0.00	1.00	0.00	1.00	0	0
2015	2	0.00	0.00	1.00	0.00	1.00	0	0
2015	3	0.00	0.00	1.00	0.00	1.00	0	0
2015	4	0.00	0.00	1.00	0.00	1.00	0	0
2015	5	0.00	0.00	1.00	0.00	1.00	0	0
2015	6	0.00	0.00	1.00	0.00	1.00	0	0
2015	7	0.00	1.00	1.00	0.00	1.00	0	0
2015	8	0.00	0.00	1.00	0.00	1.00	0	0
2015	9	0.00	0.00	1.00	0.00	1.00	0	0
2015	10	0.00	0.00	1.00	0.00	1.00	0	0
2015	11	0.00	0.00	1.00	0.00	1.00	0	0
2015	12	0.00	0.00	1.00	0.00	1.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2016	1	0.00	0.00	1.00	0.00	1.00	0	0
2016	2	0.00	0.00	1.00	0.00	1.00	0	0
2016	3	0.00	0.00	1.00	0.00	1.00	0	0
2016	4	0.00	0.00	1.00	0.00	1.00	0	0
2016	5	0.00	0.00	1.00	0.00	1.00	0	0
2016	6	0.00	0.00	1.00	0.00	1.00	0	0
2016	7	0.00	1.00	1.00	0.00	1.00	0	0
2016	8	0.00	0.00	1.00	0.00	1.00	0	0
2016	9	0.00	0.00	1.00	0.00	1.00	0	0
2016	10	0.00	0.00	1.00	0.00	1.00	0	0
2016	11	0.00	0.00	1.00	1.00	1.00	0	0
2016	12	0.00	0.00	1.00	1.00	1.00	0	0
2017	1	0.00	0.00	1.00	1.00	1.00	0	0
2017	2	0.00	0.00	1.00	1.00	1.00	0	0
2017	3	0.00	0.00	1.00	1.00	1.00	0	0
2017	4	0.00	0.00	1.00	1.00	1.00	0	0
2017	5	0.00	0.00	1.00	1.00	1.00	0	0
2017	6	0.00	0.00	1.00	1.00	1.00	0	0
2017	7	0.00	1.00	1.00	1.00	1.00	0	0
2017	8	0.00	0.00	1.00	1.00	1.00	0	0
2017	9	0.00	0.00	1.00	1.00	1.00	0	0
2017	10	0.00	0.00	1.00	1.00	1.00	0	0
2017	11	0.00	0.00	1.00	1.00	1.00	0	0
2017	12	0.00	0.00	1.00	1.00	1.00	0	0
2018	1	0.00	0.00	1.00	1.00	1.00	0	0
2018	2	0.00	0.00	1.00	1.00	1.00	0	0
2018	3	0.00	0.00	1.00	1.00	1.00	0	0
2018	4	0.00	0.00	1.00	1.00	1.00	0	0
2018	5	0.00	0.00	1.00	1.00	1.00	0	0
2018	6	0.00	0.00	1.00	1.00	1.00	0	0
2018	7	0.00	1.00	1.00	1.00	1.00	0	0
2018	8	0.00	0.00	1.00	1.00	1.00	0	0
2018	9	0.00	0.00	1.00	1.00	1.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2018	10	0.00	0.00	1.00	1.00	1.00	0	0
2018	11	0.00	0.00	1.00	1.00	1.00	0	0
2018	12	0.00	0.00	1.00	1.00	1.00	0	0
2019	1	0.00	0.00	1.00	1.00	1.00	0	0
2019	2	0.00	0.00	1.00	1.00	1.00	0	1
2019	3	0.00	0.00	1.00	1.00	1.00	0	1
2019	4	0.00	0.00	1.00	1.00	1.00	0	1
2019	5	0.00	0.00	1.00	1.00	1.00	0	1
2019	6	0.00	0.00	1.00	1.00	1.00	0	1
2019	7	0.00	1.00	1.00	1.00	1.00	0	1
2019	8	0.00	0.00	1.00	1.00	1.00	0	1
2019	9	0.00	0.00	1.00	1.00	1.00	0	1
2019	10	0.00	0.00	1.00	1.00	1.00	0	1
2019	11	0.00	0.00	1.00	1.00	1.00	0	1
2019	12	0.00	0.00	1.00	1.00	1.00	0	1
2020	1	0.00	0.00	1.00	1.00	1.00	0	1
2020	2	0.00	0.00	1.00	1.00	1.00	0	1
2020	3	0.00	0.00	1.00	1.00	1.00	0	1
2020	4	0.00	0.00	1.00	1.00	1.00	0	1
2020	5	0.00	0.00	1.00	1.00	1.00	0	1
2020	6	0.00	0.00	1.00	1.00	1.00	0	1
2020	7	0.00	1.00	1.00	1.00	1.00	0	1
2020	8	0.00	0.00	1.00	1.00	1.00	0	1
2020	9	0.00	0.00	1.00	1.00	1.00	0	1
2020	10	0.00	0.00	1.00	1.00	1.00	0	1
2020	11	0.00	0.00	1.00	1.00	1.00	0	1
2020	12	0.00	0.00	1.00	1.00	1.00	0	1
2021	1	0.00	0.00	1.00	1.00	1.00	0	1
2021	2	0.00	0.00	1.00	1.00	1.00	0	1
2021	3	0.00	0.00	1.00	1.00	1.00	0	1
2021	4	0.00	0.00	1.00	1.00	1.00	0	1
2021	5	0.00	0.00	1.00	1.00	1.00	0	1
2021	6	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2021	7	0.00	1.00	1.00	1.00	1.00	0	1
2021	8	0.00	0.00	1.00	1.00	1.00	0	1
2021	9	0.00	0.00	1.00	1.00	1.00	0	1
2021	10	0.00	0.00	1.00	1.00	1.00	0	1
2021	11	0.00	0.00	1.00	1.00	1.00	0	1
2021	12	0.00	0.00	1.00	1.00	1.00	0	1
2022	1	0.00	0.00	1.00	1.00	1.00	0	1
2022	2	0.00	0.00	1.00	1.00	1.00	0	1
2022	3	0.00	0.00	1.00	1.00	1.00	0	1
2022	4	0.00	0.00	1.00	1.00	1.00	0	1
2022	5	0.00	0.00	1.00	1.00	1.00	0	1
2022	6	0.00	0.00	1.00	1.00	1.00	0	1
2022	7	0.00	1.00	1.00	1.00	1.00	0	1
2022	8	0.00	0.00	1.00	1.00	1.00	0	1
2022	9	0.00	0.00	1.00	1.00	1.00	0	1
2022	10	0.00	0.00	1.00	1.00	1.00	0	1
2022	11	0.00	0.00	1.00	1.00	1.00	0	1
2022	12	0.00	0.00	1.00	1.00	1.00	0	1
2023	1	0.00	0.00	1.00	1.00	1.00	0	1
2023	2	0.00	0.00	1.00	1.00	1.00	0	1
2023	3	0.00	0.00	1.00	1.00	1.00	0	1
2023	4	0.00	0.00	1.00	1.00	1.00	0	1
2023	5	0.00	0.00	1.00	1.00	1.00	0	1
2023	6	0.00	0.00	1.00	1.00	1.00	0	1
2023	7	0.00	1.00	1.00	1.00	1.00	0	1
2023	8	0.00	0.00	1.00	1.00	1.00	0	1
2023	9	0.00	0.00	1.00	1.00	1.00	0	1
2023	10	0.00	0.00	1.00	1.00	1.00	0	1
2023	11	0.00	0.00	1.00	1.00	1.00	0	1
2023	12	0.00	0.00	1.00	1.00	1.00	0	1
2024	1	0.00	0.00	1.00	1.00	1.00	0	1
2024	2	0.00	0.00	1.00	1.00	1.00	0	1
2024	3	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2024	4	0.00	0.00	1.00	1.00	1.00	0	1
2024	5	0.00	0.00	1.00	1.00	1.00	0	1
2024	6	0.00	0.00	1.00	1.00	1.00	0	1
2024	7	0.00	1.00	1.00	1.00	1.00	0	1
2024	8	0.00	0.00	1.00	1.00	1.00	0	1
2024	9	0.00	0.00	1.00	1.00	1.00	0	1
2024	10	0.00	0.00	1.00	1.00	1.00	0	1
2024	11	0.00	0.00	1.00	1.00	1.00	0	1
2024	12	0.00	0.00	1.00	1.00	1.00	0	1
2025	1	0.00	0.00	1.00	1.00	1.00	0	1
2025	2	0.00	0.00	1.00	1.00	1.00	0	1
2025	3	0.00	0.00	1.00	1.00	1.00	0	1
2025	4	0.00	0.00	1.00	1.00	1.00	0	1
2025	5	0.00	0.00	1.00	1.00	1.00	0	1
2025	6	0.00	0.00	1.00	1.00	1.00	0	1
2025	7	0.00	1.00	1.00	1.00	1.00	0	1
2025	8	0.00	0.00	1.00	1.00	1.00	0	1
2025	9	0.00	0.00	1.00	1.00	1.00	0	1
2025	10	0.00	0.00	1.00	1.00	1.00	0	1
2025	11	0.00	0.00	1.00	1.00	1.00	0	1
2025	12	0.00	0.00	1.00	1.00	1.00	0	1
2026	1	0.00	0.00	1.00	1.00	1.00	0	1
2026	2	0.00	0.00	1.00	1.00	1.00	0	1
2026	3	0.00	0.00	1.00	1.00	1.00	0	1
2026	4	0.00	0.00	1.00	1.00	1.00	0	1
2026	5	0.00	0.00	1.00	1.00	1.00	0	1
2026	6	0.00	0.00	1.00	1.00	1.00	0	1
2026	7	0.00	1.00	1.00	1.00	1.00	0	1
2026	8	0.00	0.00	1.00	1.00	1.00	0	1
2026	9	0.00	0.00	1.00	1.00	1.00	0	1
2026	10	0.00	0.00	1.00	1.00	1.00	0	1
2026	11	0.00	0.00	1.00	1.00	1.00	0	1
2026	12	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2027	1	0.00	0.00	1.00	1.00	1.00	0	1
2027	2	0.00	0.00	1.00	1.00	1.00	0	1
2027	3	0.00	0.00	1.00	1.00	1.00	0	1
2027	4	0.00	0.00	1.00	1.00	1.00	0	1
2027	5	0.00	0.00	1.00	1.00	1.00	0	1
2027	6	0.00	0.00	1.00	1.00	1.00	0	1
2027	7	0.00	1.00	1.00	1.00	1.00	0	1
2027	8	0.00	0.00	1.00	1.00	1.00	0	1
2027	9	0.00	0.00	1.00	1.00	1.00	0	1
2027	10	0.00	0.00	1.00	1.00	1.00	0	1
2027	11	0.00	0.00	1.00	1.00	1.00	0	1
2027	12	0.00	0.00	1.00	1.00	1.00	0	1
2028	1	0.00	0.00	1.00	1.00	1.00	0	1
2028	2	0.00	0.00	1.00	1.00	1.00	0	1
2028	3	0.00	0.00	1.00	1.00	1.00	0	1
2028	4	0.00	0.00	1.00	1.00	1.00	0	1
2028	5	0.00	0.00	1.00	1.00	1.00	0	1
2028	6	0.00	0.00	1.00	1.00	1.00	0	1
2028	7	0.00	1.00	1.00	1.00	1.00	0	1
2028	8	0.00	0.00	1.00	1.00	1.00	0	1
2028	9	0.00	0.00	1.00	1.00	1.00	0	1
2028	10	0.00	0.00	1.00	1.00	1.00	0	1
2028	11	0.00	0.00	1.00	1.00	1.00	0	1
2028	12	0.00	0.00	1.00	1.00	1.00	0	1
2029	1	0.00	0.00	1.00	1.00	1.00	0	1
2029	2	0.00	0.00	1.00	1.00	1.00	0	1
2029	3	0.00	0.00	1.00	1.00	1.00	0	1
2029	4	0.00	0.00	1.00	1.00	1.00	0	1
2029	5	0.00	0.00	1.00	1.00	1.00	0	1
2029	6	0.00	0.00	1.00	1.00	1.00	0	1
2029	7	0.00	1.00	1.00	1.00	1.00	0	1
2029	8	0.00	0.00	1.00	1.00	1.00	0	1
2029	9	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2029	10	0.00	0.00	1.00	1.00	1.00	0	1
2029	11	0.00	0.00	1.00	1.00	1.00	0	1
2029	12	0.00	0.00	1.00	1.00	1.00	0	1
2030	1	0.00	0.00	1.00	1.00	1.00	0	1
2030	2	0.00	0.00	1.00	1.00	1.00	0	1
2030	3	0.00	0.00	1.00	1.00	1.00	0	1
2030	4	0.00	0.00	1.00	1.00	1.00	0	1
2030	5	0.00	0.00	1.00	1.00	1.00	0	1
2030	6	0.00	0.00	1.00	1.00	1.00	0	1
2030	7	0.00	1.00	1.00	1.00	1.00	0	1
2030	8	0.00	0.00	1.00	1.00	1.00	0	1
2030	9	0.00	0.00	1.00	1.00	1.00	0	1
2030	10	0.00	0.00	1.00	1.00	1.00	0	1
2030	11	0.00	0.00	1.00	1.00	1.00	0	1
2030	12	0.00	0.00	1.00	1.00	1.00	0	1
2031	1	0.00	0.00	1.00	1.00	1.00	0	1
2031	2	0.00	0.00	1.00	1.00	1.00	0	1
2031	3	0.00	0.00	1.00	1.00	1.00	0	1
2031	4	0.00	0.00	1.00	1.00	1.00	0	1
2031	5	0.00	0.00	1.00	1.00	1.00	0	1
2031	6	0.00	0.00	1.00	1.00	1.00	0	1
2031	7	0.00	1.00	1.00	1.00	1.00	0	1
2031	8	0.00	0.00	1.00	1.00	1.00	0	1
2031	9	0.00	0.00	1.00	1.00	1.00	0	1
2031	10	0.00	0.00	1.00	1.00	1.00	0	1
2031	11	0.00	0.00	1.00	1.00	1.00	0	1
2031	12	0.00	0.00	1.00	1.00	1.00	0	1
2032	1	0.00	0.00	1.00	1.00	1.00	0	1
2032	2	0.00	0.00	1.00	1.00	1.00	0	1
2032	3	0.00	0.00	1.00	1.00	1.00	0	1
2032	4	0.00	0.00	1.00	1.00	1.00	0	1
2032	5	0.00	0.00	1.00	1.00	1.00	0	1
2032	6	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2032	7	0.00	1.00	1.00	1.00	1.00	0	1
2032	8	0.00	0.00	1.00	1.00	1.00	0	1
2032	9	0.00	0.00	1.00	1.00	1.00	0	1
2032	10	0.00	0.00	1.00	1.00	1.00	0	1
2032	11	0.00	0.00	1.00	1.00	1.00	0	1
2032	12	0.00	0.00	1.00	1.00	1.00	0	1
2033	1	0.00	0.00	1.00	1.00	1.00	0	1
2033	2	0.00	0.00	1.00	1.00	1.00	0	1
2033	3	0.00	0.00	1.00	1.00	1.00	0	1
2033	4	0.00	0.00	1.00	1.00	1.00	0	1
2033	5	0.00	0.00	1.00	1.00	1.00	0	1
2033	6	0.00	0.00	1.00	1.00	1.00	0	1
2033	7	0.00	1.00	1.00	1.00	1.00	0	1
2033	8	0.00	0.00	1.00	1.00	1.00	0	1
2033	9	0.00	0.00	1.00	1.00	1.00	0	1
2033	10	0.00	0.00	1.00	1.00	1.00	0	1
2033	11	0.00	0.00	1.00	1.00	1.00	0	1
2033	12	0.00	0.00	1.00	1.00	1.00	0	1
2034	1	0.00	0.00	1.00	1.00	1.00	0	1
2034	2	0.00	0.00	1.00	1.00	1.00	0	1
2034	3	0.00	0.00	1.00	1.00	1.00	0	1
2034	4	0.00	0.00	1.00	1.00	1.00	0	1
2034	5	0.00	0.00	1.00	1.00	1.00	0	1
2034	6	0.00	0.00	1.00	1.00	1.00	0	1
2034	7	0.00	1.00	1.00	1.00	1.00	0	1
2034	8	0.00	0.00	1.00	1.00	1.00	0	1
2034	9	0.00	0.00	1.00	1.00	1.00	0	1
2034	10	0.00	0.00	1.00	1.00	1.00	0	1
2034	11	0.00	0.00	1.00	1.00	1.00	0	1
2034	12	0.00	0.00	1.00	1.00	1.00	0	1
2035	1	0.00	0.00	1.00	1.00	1.00	0	1
2035	2	0.00	0.00	1.00	1.00	1.00	0	1
2035	3	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2035	4	0.00	0.00	1.00	1.00	1.00	0	1
2035	5	0.00	0.00	1.00	1.00	1.00	0	1
2035	6	0.00	0.00	1.00	1.00	1.00	0	1
2035	7	0.00	1.00	1.00	1.00	1.00	0	1
2035	8	0.00	0.00	1.00	1.00	1.00	0	1
2035	9	0.00	0.00	1.00	1.00	1.00	0	1
2035	10	0.00	0.00	1.00	1.00	1.00	0	1
2035	11	0.00	0.00	1.00	1.00	1.00	0	1
2035	12	0.00	0.00	1.00	1.00	1.00	0	1
2036	1	0.00	0.00	1.00	1.00	1.00	0	1
2036	2	0.00	0.00	1.00	1.00	1.00	0	1
2036	3	0.00	0.00	1.00	1.00	1.00	0	1
2036	4	0.00	0.00	1.00	1.00	1.00	0	1
2036	5	0.00	0.00	1.00	1.00	1.00	0	1
2036	6	0.00	0.00	1.00	1.00	1.00	0	1
2036	7	0.00	1.00	1.00	1.00	1.00	0	1
2036	8	0.00	0.00	1.00	1.00	1.00	0	1
2036	9	0.00	0.00	1.00	1.00	1.00	0	1
2036	10	0.00	0.00	1.00	1.00	1.00	0	1
2036	11	0.00	0.00	1.00	1.00	1.00	0	1
2036	12	0.00	0.00	1.00	1.00	1.00	0	1
2037	1	0.00	0.00	1.00	1.00	1.00	0	1
2037	2	0.00	0.00	1.00	1.00	1.00	0	1
2037	3	0.00	0.00	1.00	1.00	1.00	0	1
2037	4	0.00	0.00	1.00	1.00	1.00	0	1
2037	5	0.00	0.00	1.00	1.00	1.00	0	1
2037	6	0.00	0.00	1.00	1.00	1.00	0	1
2037	7	0.00	1.00	1.00	1.00	1.00	0	1
2037	8	0.00	0.00	1.00	1.00	1.00	0	1
2037	9	0.00	0.00	1.00	1.00	1.00	0	1
2037	10	0.00	0.00	1.00	1.00	1.00	0	1
2037	11	0.00	0.00	1.00	1.00	1.00	0	1
2037	12	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2038	1	0.00	0.00	1.00	1.00	1.00	0	1
2038	2	0.00	0.00	1.00	1.00	1.00	0	1
2038	3	0.00	0.00	1.00	1.00	1.00	0	1
2038	4	0.00	0.00	1.00	1.00	1.00	0	1
2038	5	0.00	0.00	1.00	1.00	1.00	0	1
2038	6	0.00	0.00	1.00	1.00	1.00	0	1
2038	7	0.00	1.00	1.00	1.00	1.00	0	1
2038	8	0.00	0.00	1.00	1.00	1.00	0	1
2038	9	0.00	0.00	1.00	1.00	1.00	0	1
2038	10	0.00	0.00	1.00	1.00	1.00	0	1
2038	11	0.00	0.00	1.00	1.00	1.00	0	1
2038	12	0.00	0.00	1.00	1.00	1.00	0	1
2039	1	0.00	0.00	1.00	1.00	1.00	0	1
2039	2	0.00	0.00	1.00	1.00	1.00	0	1
2039	3	0.00	0.00	1.00	1.00	1.00	0	1
2039	4	0.00	0.00	1.00	1.00	1.00	0	1
2039	5	0.00	0.00	1.00	1.00	1.00	0	1
2039	6	0.00	0.00	1.00	1.00	1.00	0	1
2039	7	0.00	1.00	1.00	1.00	1.00	0	1
2039	8	0.00	0.00	1.00	1.00	1.00	0	1
2039	9	0.00	0.00	1.00	1.00	1.00	0	1
2039	10	0.00	0.00	1.00	1.00	1.00	0	1
2039	11	0.00	0.00	1.00	1.00	1.00	0	1
2039	12	0.00	0.00	1.00	1.00	1.00	0	1
2040	1	0.00	0.00	1.00	1.00	1.00	0	1
2040	2	0.00	0.00	1.00	1.00	1.00	0	1
2040	3	0.00	0.00	1.00	1.00	1.00	0	1
2040	4	0.00	0.00	1.00	1.00	1.00	0	1
2040	5	0.00	0.00	1.00	1.00	1.00	0	1
2040	6	0.00	0.00	1.00	1.00	1.00	0	1
2040	7	0.00	1.00	1.00	1.00	1.00	0	1
2040	8	0.00	0.00	1.00	1.00	1.00	0	1
2040	9	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2040	10	0.00	0.00	1.00	1.00	1.00	0	1
2040	11	0.00	0.00	1.00	1.00	1.00	0	1
2040	12	0.00	0.00	1.00	1.00	1.00	0	1
2041	1	0.00	0.00	1.00	1.00	1.00	0	1
2041	2	0.00	0.00	1.00	1.00	1.00	0	1
2041	3	0.00	0.00	1.00	1.00	1.00	0	1
2041	4	0.00	0.00	1.00	1.00	1.00	0	1
2041	5	0.00	0.00	1.00	1.00	1.00	0	1
2041	6	0.00	0.00	1.00	1.00	1.00	0	1
2041	7	0.00	1.00	1.00	1.00	1.00	0	1
2041	8	0.00	0.00	1.00	1.00	1.00	0	1
2041	9	0.00	0.00	1.00	1.00	1.00	0	1
2041	10	0.00	0.00	1.00	1.00	1.00	0	1
2041	11	0.00	0.00	1.00	1.00	1.00	0	1
2041	12	0.00	0.00	1.00	1.00	1.00	0	1
2042	1	0.00	0.00	1.00	1.00	1.00	0	1
2042	2	0.00	0.00	1.00	1.00	1.00	0	1
2042	3	0.00	0.00	1.00	1.00	1.00	0	1
2042	4	0.00	0.00	1.00	1.00	1.00	0	1
2042	5	0.00	0.00	1.00	1.00	1.00	0	1
2042	6	0.00	0.00	1.00	1.00	1.00	0	1
2042	7	0.00	1.00	1.00	1.00	1.00	0	1
2042	8	0.00	0.00	1.00	1.00	1.00	0	1
2042	9	0.00	0.00	1.00	1.00	1.00	0	1
2042	10	0.00	0.00	1.00	1.00	1.00	0	1
2042	11	0.00	0.00	1.00	1.00	1.00	0	1
2042	12	0.00	0.00	1.00	1.00	1.00	0	1
2043	1	0.00	0.00	1.00	1.00	1.00	0	1
2043	2	0.00	0.00	1.00	1.00	1.00	0	1
2043	3	0.00	0.00	1.00	1.00	1.00	0	1
2043	4	0.00	0.00	1.00	1.00	1.00	0	1
2043	5	0.00	0.00	1.00	1.00	1.00	0	1
2043	6	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2043	7	0.00	1.00	1.00	1.00	1.00	0	1
2043	8	0.00	0.00	1.00	1.00	1.00	0	1
2043	9	0.00	0.00	1.00	1.00	1.00	0	1
2043	10	0.00	0.00	1.00	1.00	1.00	0	1
2043	11	0.00	0.00	1.00	1.00	1.00	0	1
2043	12	0.00	0.00	1.00	1.00	1.00	0	1
2044	1	0.00	0.00	1.00	1.00	1.00	0	1
2044	2	0.00	0.00	1.00	1.00	1.00	0	1
2044	3	0.00	0.00	1.00	1.00	1.00	0	1
2044	4	0.00	0.00	1.00	1.00	1.00	0	1
2044	5	0.00	0.00	1.00	1.00	1.00	0	1
2044	6	0.00	0.00	1.00	1.00	1.00	0	1
2044	7	0.00	1.00	1.00	1.00	1.00	0	1
2044	8	0.00	0.00	1.00	1.00	1.00	0	1
2044	9	0.00	0.00	1.00	1.00	1.00	0	1
2044	10	0.00	0.00	1.00	1.00	1.00	0	1
2044	11	0.00	0.00	1.00	1.00	1.00	0	1
2044	12	0.00	0.00	1.00	1.00	1.00	0	1
2045	1	0.00	0.00	1.00	1.00	1.00	0	1
2045	2	0.00	0.00	1.00	1.00	1.00	0	1
2045	3	0.00	0.00	1.00	1.00	1.00	0	1
2045	4	0.00	0.00	1.00	1.00	1.00	0	1
2045	5	0.00	0.00	1.00	1.00	1.00	0	1
2045	6	0.00	0.00	1.00	1.00	1.00	0	1
2045	7	0.00	1.00	1.00	1.00	1.00	0	1
2045	8	0.00	0.00	1.00	1.00	1.00	0	1
2045	9	0.00	0.00	1.00	1.00	1.00	0	1
2045	10	0.00	0.00	1.00	1.00	1.00	0	1
2045	11	0.00	0.00	1.00	1.00	1.00	0	1
2045	12	0.00	0.00	1.00	1.00	1.00	0	1
2046	1	0.00	0.00	1.00	1.00	1.00	0	1
2046	2	0.00	0.00	1.00	1.00	1.00	0	1
2046	3	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2046	4	0.00	0.00	1.00	1.00	1.00	0	1
2046	5	0.00	0.00	1.00	1.00	1.00	0	1
2046	6	0.00	0.00	1.00	1.00	1.00	0	1
2046	7	0.00	1.00	1.00	1.00	1.00	0	1
2046	8	0.00	0.00	1.00	1.00	1.00	0	1
2046	9	0.00	0.00	1.00	1.00	1.00	0	1
2046	10	0.00	0.00	1.00	1.00	1.00	0	1
2046	11	0.00	0.00	1.00	1.00	1.00	0	1
2046	12	0.00	0.00	1.00	1.00	1.00	0	1
2047	1	0.00	0.00	1.00	1.00	1.00	0	1
2047	2	0.00	0.00	1.00	1.00	1.00	0	1
2047	3	0.00	0.00	1.00	1.00	1.00	0	1
2047	4	0.00	0.00	1.00	1.00	1.00	0	1
2047	5	0.00	0.00	1.00	1.00	1.00	0	1
2047	6	0.00	0.00	1.00	1.00	1.00	0	1
2047	7	0.00	1.00	1.00	1.00	1.00	0	1
2047	8	0.00	0.00	1.00	1.00	1.00	0	1
2047	9	0.00	0.00	1.00	1.00	1.00	0	1
2047	10	0.00	0.00	1.00	1.00	1.00	0	1
2047	11	0.00	0.00	1.00	1.00	1.00	0	1
2047	12	0.00	0.00	1.00	1.00	1.00	0	1
2048	1	0.00	0.00	1.00	1.00	1.00	0	1
2048	2	0.00	0.00	1.00	1.00	1.00	0	1
2048	3	0.00	0.00	1.00	1.00	1.00	0	1
2048	4	0.00	0.00	1.00	1.00	1.00	0	1
2048	5	0.00	0.00	1.00	1.00	1.00	0	1
2048	6	0.00	0.00	1.00	1.00	1.00	0	1
2048	7	0.00	1.00	1.00	1.00	1.00	0	1
2048	8	0.00	0.00	1.00	1.00	1.00	0	1
2048	9	0.00	0.00	1.00	1.00	1.00	0	1
2048	10	0.00	0.00	1.00	1.00	1.00	0	1
2048	11	0.00	0.00	1.00	1.00	1.00	0	1
2048	12	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2049	1	0.00	0.00	1.00	1.00	1.00	0	1
2049	2	0.00	0.00	1.00	1.00	1.00	0	1
2049	3	0.00	0.00	1.00	1.00	1.00	0	1
2049	4	0.00	0.00	1.00	1.00	1.00	0	1
2049	5	0.00	0.00	1.00	1.00	1.00	0	1
2049	6	0.00	0.00	1.00	1.00	1.00	0	1
2049	7	0.00	1.00	1.00	1.00	1.00	0	1
2049	8	0.00	0.00	1.00	1.00	1.00	0	1
2049	9	0.00	0.00	1.00	1.00	1.00	0	1
2049	10	0.00	0.00	1.00	1.00	1.00	0	1
2049	11	0.00	0.00	1.00	1.00	1.00	0	1
2049	12	0.00	0.00	1.00	1.00	1.00	0	1
2050	1	0.00	0.00	1.00	1.00	1.00	0	1
2050	2	0.00	0.00	1.00	1.00	1.00	0	1
2050	3	0.00	0.00	1.00	1.00	1.00	0	1
2050	4	0.00	0.00	1.00	1.00	1.00	0	1
2050	5	0.00	0.00	1.00	1.00	1.00	0	1
2050	6	0.00	0.00	1.00	1.00	1.00	0	1
2050	7	0.00	1.00	1.00	1.00	1.00	0	1
2050	8	0.00	0.00	1.00	1.00	1.00	0	1
2050	9	0.00	0.00	1.00	1.00	1.00	0	1
2050	10	0.00	0.00	1.00	1.00	1.00	0	1
2050	11	0.00	0.00	1.00	1.00	1.00	0	1
2050	12	0.00	0.00	1.00	1.00	1.00	0	1
2051	1	0.00	0.00	1.00	1.00	1.00	0	1
2051	2	0.00	0.00	1.00	1.00	1.00	0	1
2051	3	0.00	0.00	1.00	1.00	1.00	0	1
2051	4	0.00	0.00	1.00	1.00	1.00	0	1
2051	5	0.00	0.00	1.00	1.00	1.00	0	1
2051	6	0.00	0.00	1.00	1.00	1.00	0	1
2051	7	0.00	1.00	1.00	1.00	1.00	0	1
2051	8	0.00	0.00	1.00	1.00	1.00	0	1
2051	9	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2051	10	0.00	0.00	1.00	1.00	1.00	0	1
2051	11	0.00	0.00	1.00	1.00	1.00	0	1
2051	12	0.00	0.00	1.00	1.00	1.00	0	1
2052	1	0.00	0.00	1.00	1.00	1.00	0	1
2052	2	0.00	0.00	1.00	1.00	1.00	0	1
2052	3	0.00	0.00	1.00	1.00	1.00	0	1
2052	4	0.00	0.00	1.00	1.00	1.00	0	1
2052	5	0.00	0.00	1.00	1.00	1.00	0	1
2052	6	0.00	0.00	1.00	1.00	1.00	0	1
2052	7	0.00	1.00	1.00	1.00	1.00	0	1
2052	8	0.00	0.00	1.00	1.00	1.00	0	1
2052	9	0.00	0.00	1.00	1.00	1.00	0	1
2052	10	0.00	0.00	1.00	1.00	1.00	0	1
2052	11	0.00	0.00	1.00	1.00	1.00	0	1
2052	12	0.00	0.00	1.00	1.00	1.00	0	1
2053	1	0.00	0.00	1.00	1.00	1.00	0	1
2053	2	0.00	0.00	1.00	1.00	1.00	0	1
2053	3	0.00	0.00	1.00	1.00	1.00	0	1
2053	4	0.00	0.00	1.00	1.00	1.00	0	1
2053	5	0.00	0.00	1.00	1.00	1.00	0	1
2053	6	0.00	0.00	1.00	1.00	1.00	0	1
2053	7	0.00	1.00	1.00	1.00	1.00	0	1
2053	8	0.00	0.00	1.00	1.00	1.00	0	1
2053	9	0.00	0.00	1.00	1.00	1.00	0	1
2053	10	0.00	0.00	1.00	1.00	1.00	0	1
2053	11	0.00	0.00	1.00	1.00	1.00	0	1
2053	12	0.00	0.00	1.00	1.00	1.00	0	1
2054	1	0.00	0.00	1.00	1.00	1.00	0	1
2054	2	0.00	0.00	1.00	1.00	1.00	0	1
2054	3	0.00	0.00	1.00	1.00	1.00	0	1
2054	4	0.00	0.00	1.00	1.00	1.00	0	1
2054	5	0.00	0.00	1.00	1.00	1.00	0	1
2054	6	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Input Data

Year	Month	11-Sep	DJuly10on	may13on	nov16on	d15onjan	XMissing	YMissing
2054	7	0.00	1.00	1.00	1.00	1.00	0	1
2054	8	0.00	0.00	1.00	1.00	1.00	0	1
2054	9	0.00	0.00	1.00	1.00	1.00	0	1
2054	10	0.00	0.00	1.00	1.00	1.00	0	1
2054	11	0.00	0.00	1.00	1.00	1.00	0	1
2054	12	0.00	0.00	1.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Coefficients

Variable	Coefficient	StdErr	T-Stat	P-Value	Definition
ResidentialVars.XHeat	803178.377	30566.722	26.276	0.00%	Residential Heating Component
ResidentialVars.XCool	419379.181	15860.296	26.442	0.00%	Residential Cooling Component
ResidentialVars.XOther	1237836.030	18005.106	68.749	0.00%	Residential Other Component
BinaryVars.Jan	-26836043.219	20483580.689	-1.310	19.22%	January
BinaryVars.Feb	-93206930.047	21267304.333	-4.383	0.00%	February
BinaryVars.Mar	-42943296.803	8623171.645	-4.980	0.00%	March
BinaryVars.Apr	-52314474.761	7795529.411	-6.711	0.00%	April
BinaryVars.May	-54056699.220	10212027.678	-5.293	0.00%	May
BinaryVars.Jun	-34161473.077	13172204.391	-2.593	1.05%	June
BinaryVars.Jul	38300889.549	17409485.491	2.200	2.94%	July
BinaryVars.Aug	62705250.234	17286596.936	3.627	0.04%	August
BinaryVars.Sep	41367420.053	14856206.165	2.785	0.61%	September
BinaryVars.Oct	-32696042.522	11691579.909	-2.797	0.59%	October
BinaryVars.Nov	-48348607.839	7852800.117	-6.157	0.00%	November
BinaryVars.FebD06on	81106126.706	19830077.474	4.090	0.01%	Binary Variable - 2006 On February
BinaryVars.JanD06on	93391920.719	19972580.607	4.676	0.00%	Binary Variable - 2006 On January
BinaryVars.Sep11	-25897142.503	18026491.621	-1.437	15.30%	Binary Variable -September 2011
BinaryVars.DJuly10on	-11694704.199	9833345.349	-1.189	23.62%	Binary Variable - 2010 On July
BinaryVars.may13on	-34592820.987	6799202.009	-5.088	0.00%	Binary Variable - May 2013 On
BinaryVars.nov16on	-9275907.902	7675603.888	-1.208	22.88%	Binary Variable - November 2016 On
BinaryVars.d15onjan	-34248252.641	8312921.231	-4.120	0.01%	Binary Variable - 2015 On January
MA(1)	0.436	0.079	5.546	0.00%	Moving Average Term

Indiana Michigan Power Company - Indiana
Long-Term Residential Model Statistics

Model Statistics		Forecast Statistics	
Iterations	15	Forecast Observations	0
Adjusted Observations	169	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	147	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.991	Avg. Forecast Error	0.00
Adjusted R-Squared	0.989	Mean % Error	0.00%
AIC	33.649	Root Mean-Square Error	0.00
BIC	34.056	Theil's Inequality Coefficient	0.0000
F-Statistic	#NA	-- Bias Proportion	0.00%
Prob (F-Statistic)	#NA	-- Variance Proportion	0.00%
Log-Likelihood	-3,061.11	-- Covariance Proportion	0.00%
Model Sum of Squares	5,688,003,842,838,250,000.00		
Sum of Squared Errors	53,485,832,370,829,600.00		
Mean Squared Error	363,849,199,801,562.00		
Std. Error of Regression	19,074,831.58		
Mean Abs. Dev. (MAD)	13,830,381.68		
Mean Abs. % Err. (MAPE)	1.44%		
Durbin-Watson Statistic	1.688		
Durbin-H Statistic	#NA		
Ljung-Box Statistic	49.05		
Prob (Ljung-Box)	0.0019		
Skewness	0.114		
Kurtosis	3.664		
Jarque-Bera	3.470		
Prob (Jarque-Bera)	0.1764		

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2005	1	1,222,104,189.704	396,198,242.132	0.000	852,741,990.791	-26,836,043.219	0.000	0.000
2005	2	1,113,165,486.138	448,187,887.202	0.000	758,184,528.986	0.000	-93,206,930.047	0.000
2005	3	1,049,838,537.833	356,058,947.081	0.000	740,425,589.620	0.000	0.000	-42,943,296.803
2005	4	874,896,248.058	190,594,998.100	1,278,747.409	745,221,458.387	0.000	0.000	0.000
2005	5	741,416,189.496	78,685,118.504	14,951,617.013	706,511,515.594	0.000	0.000	0.000
2005	6	825,169,245.341	13,094,176.449	116,208,625.854	731,762,762.912	0.000	0.000	0.000
2005	7	1,140,975,022.266	0.000	377,426,232.466	717,672,075.946	0.000	0.000	0.000
2005	8	1,166,699,150.056	0.000	424,738,394.848	673,141,731.785	0.000	0.000	0.000
2005	9	1,021,728,428.211	0.000	260,144,670.330	720,191,115.528	0.000	0.000	0.000
2005	10	827,677,034.792	10,826,837.617	120,653,333.206	719,636,525.231	0.000	0.000	0.000
2005	11	777,257,078.835	95,350,266.504	9,761,707.196	728,694,258.269	0.000	0.000	0.000
2005	12	1,154,039,585.340	338,441,786.309	0.000	818,507,480.054	0.000	0.000	0.000
2006	1	1,261,886,705.867	358,157,319.190	0.000	854,861,395.999	-26,836,043.219	0.000	0.000
2006	2	1,037,762,674.500	293,867,831.311	0.000	756,048,334.451	0.000	-93,206,930.047	0.000
2006	3	1,022,540,221.683	328,307,425.884	0.000	740,564,346.144	0.000	0.000	-42,943,296.803
2006	4	840,643,037.269	184,742,155.772	1,321,414.700	711,987,097.958	0.000	0.000	0.000
2006	5	707,584,598.967	39,341,439.355	2,551,177.391	725,375,324.946	0.000	0.000	0.000
2006	6	828,556,821.741	15,237,998.908	114,964,180.583	732,247,203.954	0.000	0.000	0.000
2006	7	1,020,087,328.526	0.000	266,784,712.584	705,119,383.681	0.000	0.000	0.000
2006	8	1,147,209,166.746	0.000	399,590,775.997	684,734,274.548	0.000	0.000	0.000
2006	9	934,629,414.994	871,431.342	165,698,653.969	717,362,151.815	0.000	0.000	0.000
2006	10	720,201,234.314	29,953,017.207	15,229,338.693	705,334,867.870	0.000	0.000	0.000
2006	11	844,952,391.779	156,794,340.239	1,394,481.890	737,100,623.963	0.000	0.000	0.000
2006	12	1,058,444,078.486	230,762,040.260	0.000	825,080,337.959	0.000	0.000	0.000
2007	1	1,187,573,030.176	263,821,530.048	0.000	847,869,425.476	-26,836,043.219	0.000	0.000
2007	2	1,230,136,811.212	479,243,220.306	0.000	770,047,439.589	0.000	-93,206,930.047	0.000
2007	3	1,149,376,550.296	439,243,027.017	87,708.791	741,319,268.188	0.000	0.000	-42,943,296.803
2007	4	843,488,917.348	164,779,293.863	5,515,363.276	737,902,914.387	0.000	0.000	0.000
2007	5	763,826,276.299	62,569,007.680	27,790,777.507	716,973,369.527	0.000	0.000	0.000
2007	6	887,977,158.517	4,309,255.714	197,174,993.066	723,414,498.727	0.000	0.000	0.000
2007	7	1,036,514,748.443	0.000	289,127,808.336	706,848,595.583	0.000	0.000	0.000
2007	8	1,098,867,050.017	0.000	342,314,737.116	687,724,179.515	0.000	0.000	0.000
2007	9	1,047,856,457.441	760,354.572	286,216,127.127	718,458,870.889	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2007	10	856,492,148.316	7,737,468.366	141,985,264.609	731,138,440.394	0.000	0.000	0.000
2007	11	808,354,281.526	93,427,205.312	29,871,936.869	738,477,872.757	0.000	0.000	0.000
2007	12	1,117,816,766.989	297,118,928.095	0.000	819,483,483.132	0.000	0.000	0.000
2008	1	1,289,994,672.521	370,648,940.631	0.000	853,348,642.849	-26,836,043.219	0.000	0.000
2008	2	1,198,419,752.762	442,612,545.395	0.000	760,147,015.296	0.000	-93,206,930.047	0.000
2008	3	1,132,934,704.855	420,171,854.061	0.000	745,289,950.180	0.000	0.000	-42,943,296.803
2008	4	898,996,692.724	221,051,546.324	329,387.455	728,986,352.579	0.000	0.000	0.000
2008	5	728,132,724.907	53,639,114.078	12,963,124.391	707,488,232.730	0.000	0.000	0.000
2008	6	829,411,159.800	12,415,548.758	128,549,444.038	728,307,351.788	0.000	0.000	0.000
2008	7	993,303,983.299	16,015.779	249,276,107.542	712,774,955.781	0.000	0.000	0.000
2008	8	1,054,618,926.643	0.000	314,340,091.450	677,405,319.195	0.000	0.000	0.000
2008	9	978,491,514.078	0.000	233,524,077.815	706,383,178.314	0.000	0.000	0.000
2008	10	747,698,152.127	14,107,642.250	63,103,472.968	712,877,729.952	0.000	0.000	0.000
2008	11	810,828,260.177	113,533,186.881	4,093,761.899	735,678,929.105	0.000	0.000	0.000
2008	12	1,165,368,765.190	340,890,462.176	0.000	823,873,432.701	0.000	0.000	0.000
2009	1	1,366,353,596.131	443,641,035.357	0.000	849,430,080.938	-26,836,043.219	0.000	0.000
2009	2	1,295,302,173.583	524,479,644.393	0.000	758,900,477.828	0.000	-93,206,930.047	0.000
2009	3	1,001,745,280.454	315,276,626.104	0.000	731,333,461.078	0.000	0.000	-42,943,296.803
2009	4	855,170,111.433	161,958,842.170	711,449.460	727,142,417.781	0.000	0.000	0.000
2009	5	754,052,729.630	62,456,437.514	35,588,716.032	703,839,668.087	0.000	0.000	0.000
2009	6	764,397,824.722	6,735,228.245	89,661,158.760	709,904,829.374	0.000	0.000	0.000
2009	7	1,009,192,698.610	0.000	253,907,702.688	716,124,607.924	0.000	0.000	0.000
2009	8	920,835,464.502	0.000	204,106,505.531	667,014,041.837	0.000	0.000	0.000
2009	9	889,372,502.812	0.000	146,371,368.795	703,919,872.120	0.000	0.000	0.000
2009	10	773,579,034.636	36,139,462.198	44,377,249.227	727,677,991.826	0.000	0.000	0.000
2009	11	773,188,131.066	98,174,798.591	0.000	719,610,321.353	0.000	0.000	0.000
2009	12	1,061,749,118.757	228,805,737.851	0.000	819,407,085.544	0.000	0.000	0.000
2010	1	1,342,200,878.630	428,888,643.245	0.000	835,367,589.512	-26,836,043.219	0.000	0.000
2010	2	1,196,173,924.788	444,044,666.789	0.000	737,588,064.212	0.000	-93,206,930.047	0.000
2010	3	1,000,899,351.174	330,536,369.066	0.000	705,359,471.236	0.000	0.000	-42,943,296.803
2010	4	809,350,039.793	112,075,125.778	11,030,249.876	730,474,814.527	0.000	0.000	0.000
2010	5	690,530,491.901	26,267,496.576	25,541,758.919	698,140,245.268	0.000	0.000	0.000
2010	6	918,633,824.452	5,373,397.250	235,010,845.744	712,418,384.864	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2010	7	1,142,793,236.851	0.000	422,494,889.089	696,872,492.318	0.000	0.000	0.000
2010	8	1,222,202,151.817	0.000	475,921,388.630	679,609,983.131	0.000	0.000	0.000
2010	9	1,032,837,300.812	0.000	290,251,637.615	700,934,701.243	0.000	0.000	0.000
2010	10	764,776,326.548	12,333,637.029	84,467,690.654	695,145,533.695	0.000	0.000	0.000
2010	11	754,549,353.877	95,309,198.698	7,562,064.779	711,896,021.407	0.000	0.000	0.000
2010	12	1,121,968,768.788	311,551,881.527	0.000	808,693,362.705	0.000	0.000	0.000
2011	1	1,349,159,531.726	459,177,507.045	0.000	827,553,241.205	-26,836,043.219	0.000	0.000
2011	2	1,258,744,877.263	502,019,737.783	0.000	758,350,901.416	0.000	-93,206,930.047	0.000
2011	3	993,806,457.268	335,019,257.695	0.000	709,045,755.229	0.000	0.000	-42,943,296.803
2011	4	836,855,841.694	196,680,701.722	2,735,028.555	688,244,043.364	0.000	0.000	0.000
2011	5	760,531,411.352	60,617,430.051	22,302,615.284	731,606,887.575	0.000	0.000	0.000
2011	6	920,496,781.727	8,488,852.829	202,194,628.974	736,154,293.392	0.000	0.000	0.000
2011	7	1,100,034,271.708	0.000	374,796,005.230	709,261,027.093	0.000	0.000	0.000
2011	8	1,295,517,634.671	0.000	538,701,521.529	697,754,538.964	0.000	0.000	0.000
2011	9	976,125,474.856	1,303,753.720	252,978,635.197	715,288,458.305	0.000	0.000	0.000
2011	10	726,352,133.950	15,582,178.356	33,907,993.642	711,730,356.280	0.000	0.000	0.000
2011	11	743,161,561.793	87,837,491.679	1,047,981.671	706,161,056.305	0.000	0.000	0.000
2011	12	1,035,297,687.185	208,880,508.899	0.000	818,768,045.425	0.000	0.000	0.000
2012	1	1,233,591,569.453	314,148,056.777	0.000	845,225,586.205	-26,836,043.219	0.000	0.000
2012	2	1,082,053,424.372	359,053,249.890	0.000	743,220,727.429	0.000	-93,206,930.047	0.000
2012	3	955,529,250.024	252,783,760.522	8,616,743.893	742,312,271.915	0.000	0.000	-42,943,296.803
2012	4	790,829,878.493	66,757,292.685	27,788,000.611	752,910,221.150	0.000	0.000	0.000
2012	5	737,936,642.056	50,590,878.910	35,625,042.611	725,908,756.758	0.000	0.000	0.000
2012	6	901,105,310.456	1,686,267.407	202,284,366.236	737,525,170.948	0.000	0.000	0.000
2012	7	1,233,109,542.132	158,875.924	487,446,668.306	722,379,411.621	0.000	0.000	0.000
2012	8	1,184,192,348.770	0.000	425,282,205.316	703,981,668.430	0.000	0.000	0.000
2012	9	979,001,369.137	1,091,284.182	208,872,741.680	721,533,223.202	0.000	0.000	0.000
2012	10	734,274,773.525	36,177,637.409	30,760,347.781	716,132,555.681	0.000	0.000	0.000
2012	11	819,085,337.903	134,034,653.089	3,010,184.238	740,674,665.138	0.000	0.000	0.000
2012	12	1,023,889,750.500	226,837,272.455	0.000	805,746,883.050	0.000	0.000	0.000
2013	1	1,243,061,235.140	356,352,703.817	0.000	829,913,523.847	-26,836,043.219	0.000	0.000
2013	2	1,128,214,593.346	410,414,664.245	0.000	742,167,045.761	0.000	-93,206,930.047	0.000
2013	3	1,064,455,493.139	367,090,776.677	0.000	737,527,846.721	0.000	0.000	-42,943,296.803

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2013	4	938,015,296.082	249,091,916.270	0.000	729,563,654.598	0.000	0.000	0.000
2013	5	709,658,093.012	63,917,350.437	28,519,912.326	706,866,973.318	0.000	0.000	0.000
2013	6	826,011,637.077	6,576,515.014	151,933,825.019	725,154,851.422	0.000	0.000	0.000
2013	7	990,535,739.690	0.000	308,192,582.520	701,686,641.106	0.000	0.000	0.000
2013	8	964,210,860.864	0.000	243,704,834.239	689,175,028.701	0.000	0.000	0.000
2013	9	952,493,190.612	305,896.010	239,194,770.933	710,326,460.079	0.000	0.000	0.000
2013	10	738,117,923.003	10,262,387.977	86,739,442.910	703,998,529.514	0.000	0.000	0.000
2013	11	777,237,611.171	127,401,235.681	7,768,178.525	722,945,900.479	0.000	0.000	0.000
2013	12	1,090,143,639.141	319,189,033.376	0.000	801,206,955.896	0.000	0.000	0.000
2014	1	1,363,273,924.986	474,757,736.465	0.000	852,819,160.304	-26,836,043.219	0.000	0.000
2014	2	1,286,462,918.028	582,551,553.932	0.000	735,844,110.271	0.000	-93,206,930.047	0.000
2014	3	1,163,959,043.006	505,957,287.268	0.000	733,037,605.392	0.000	0.000	-42,943,296.803
2014	4	890,480,874.296	260,748,726.612	0.000	721,194,584.007	0.000	0.000	0.000
2014	5	726,712,249.573	63,859,891.460	20,239,031.223	727,806,541.077	0.000	0.000	0.000
2014	6	821,809,170.102	12,971,182.072	155,892,993.850	724,561,389.779	0.000	0.000	0.000
2014	7	994,466,015.724	0.000	292,349,129.204	712,188,019.507	0.000	0.000	0.000
2014	8	880,414,049.625	0.000	186,513,261.285	682,981,456.168	0.000	0.000	0.000
2014	9	948,482,717.455	830,795.338	233,785,266.328	715,794,249.145	0.000	0.000	0.000
2014	10	676,998,351.933	23,062,615.685	24,299,114.115	704,765,038.852	0.000	0.000	0.000
2014	11	778,818,050.586	140,242,509.569	466,407.643	717,861,939.519	0.000	0.000	0.000
2014	12	1,110,567,205.609	333,349,395.985	0.000	817,902,294.622	0.000	0.000	0.000
2015	1	1,252,053,715.329	427,123,905.253	0.000	824,501,587.848	-26,836,043.219	0.000	0.000
2015	2	1,154,986,989.208	513,285,056.926	0.000	726,758,966.079	0.000	-93,206,930.047	0.000
2015	3	1,140,854,551.324	532,794,314.620	0.000	724,736,084.451	0.000	0.000	-42,943,296.803
2015	4	826,788,616.230	218,527,676.500	0.000	739,289,766.661	0.000	0.000	0.000
2015	5	692,378,250.541	58,065,185.880	39,862,622.630	714,860,624.429	0.000	0.000	0.000
2015	6	778,224,422.880	5,856,784.432	164,500,833.154	714,002,286.070	0.000	0.000	0.000
2015	7	889,567,535.286	41,864.068	215,825,895.489	715,757,247.373	0.000	0.000	0.000
2015	8	976,057,185.322	0.000	303,511,475.235	676,311,410.931	0.000	0.000	0.000
2015	9	921,084,218.628	0.000	237,416,392.421	712,952,301.580	0.000	0.000	0.000
2015	10	688,739,526.594	11,176,951.027	78,303,630.140	705,257,953.022	0.000	0.000	0.000
2015	11	679,647,784.005	72,421,628.796	2,072,272.880	712,815,523.766	0.000	0.000	0.000
2015	12	962,078,793.216	202,384,363.390	0.000	832,674,473.284	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2016	1	1,113,179,349.418	308,889,753.879	0.000	815,390,893.987	-26,836,043.219	0.000	0.000
2016	2	1,074,048,913.916	429,069,329.639	0.000	729,584,312.164	0.000	-93,206,930.047	0.000
2016	3	892,394,665.609	293,464,505.205	0.000	719,548,012.222	0.000	0.000	-42,943,296.803
2016	4	763,669,544.933	157,240,531.211	0.000	728,259,318.283	0.000	0.000	0.000
2016	5	640,968,031.360	63,608,617.749	2,373,644.147	695,320,899.146	0.000	0.000	0.000
2016	6	807,881,637.627	11,272,134.421	172,397,192.884	721,801,065.511	0.000	0.000	0.000
2016	7	952,829,237.663	0.000	289,325,685.453	702,844,283.932	0.000	0.000	0.000
2016	8	1,113,771,201.380	0.000	428,226,377.390	678,322,335.223	0.000	0.000	0.000
2016	9	1,001,708,478.479	0.000	322,035,163.097	707,543,059.846	0.000	0.000	0.000
2016	10	740,233,721.161	3,827,959.540	125,025,392.976	705,173,589.596	0.000	0.000	0.000
2016	11	672,563,248.359	62,624,387.643	20,985,155.555	708,078,193.995	0.000	0.000	0.000
2016	12	1,005,282,075.107	279,085,372.130	837,842.107	809,650,482.935	0.000	0.000	0.000
2017	1	1,214,528,352.800	420,792,866.160	0.000	809,956,572.363	-26,836,043.219	0.000	0.000
2017	2	934,131,254.294	319,760,645.831	0.000	714,268,266.066	0.000	-93,206,930.047	0.000
2017	3	830,007,654.335	244,234,355.245	0.000	702,689,272.453	0.000	0.000	-42,943,296.803
2017	4	752,700,260.696	172,298,155.940	5,293,483.405	705,021,973.061	0.000	0.000	0.000
2017	5	627,885,263.488	44,914,358.682	34,973,561.694	680,796,592.826	0.000	0.000	0.000
2017	6	738,669,296.921	8,815,635.109	133,882,909.828	705,233,455.340	0.000	0.000	0.000
2017	7	950,732,714.503	0.000	293,349,441.992	703,358,932.020	0.000	0.000	0.000
2017	8	931,452,740.345	0.000	274,147,425.121	675,214,217.347	0.000	0.000	0.000
2017	9	804,129,021.627	0.000	131,461,662.636	697,218,230.910	0.000	0.000	0.000
2017	10	731,089,878.752	2,061,487.297	138,346,519.508	698,851,246.772	0.000	0.000	0.000
2017	11	714,297,364.587	122,489,417.742	14,868,608.237	693,300,658.809	0.000	0.000	0.000
2017	12	977,581,802.801	261,830,955.481	0.000	797,812,301.019	0.000	0.000	0.000
2018	1	1,325,727,848.854	532,698,702.912	0.000	802,717,200.540	-26,836,043.219	0.000	0.000
2018	2	1,039,292,510.125	441,924,609.859	0.000	707,262,725.075	0.000	-93,206,930.047	0.000
2018	3	880,034,367.593	304,743,499.806	0.000	700,515,821.375	0.000	0.000	-42,943,296.803
2018	4	857,810,336.124	268,823,809.072	533,766.444	712,500,993.182	0.000	0.000	0.000
2018	5	681,345,736.031	92,261,867.206	29,613,024.517	687,667,778.940	0.000	0.000	0.000
2018	6	835,278,957.936	975,010.793	235,156,868.889	708,877,226.305	0.000	0.000	0.000
2018	7	1,020,406,192.396	0.000	376,636,809.432	686,645,803.507	0.000	0.000	0.000
2018	8	982,396,141.680	0.000	315,935,041.050	673,268,100.945	0.000	0.000	0.000
2018	9	980,609,965.774	0.000	324,449,219.748	692,935,293.136	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2018	10	757,809,701.851	20,201,429.819	161,726,417.397	684,790,010.809	0.000	0.000	0.000
2018	11	751,796,574.040	156,764,152.032	22,786,032.954	699,605,987.985	0.000	0.000	0.000
2018	12	1,012,821,471.391	311,142,715.933	0.000	779,641,943.806	0.000	0.000	0.000
2019	1	1,102,628,419.813	317,591,129.033	0.000	794,709,027.272	-26,836,043.219	0.000	0.000
2019	2	1,045,288,075.915	450,079,476.729	0.000	704,461,434.249	0.000	-93,206,930.047	0.000
2019	3	934,707,769.284	361,414,603.839	405,084.242	693,948,359.536	0.000	0.000	-42,943,296.803
2019	4	769,672,065.451	201,620,299.700	3,378,401.232	695,104,820.810	0.000	0.000	0.000
2019	5	638,180,163.746	64,139,988.802	23,783,748.294	682,430,107.401	0.000	0.000	0.000
2019	6	723,723,250.191	8,976,763.745	128,001,884.493	699,023,056.560	0.000	0.000	0.000
2019	7	930,024,169.149	111,444.795	295,644,164.845	685,779,355.689	0.000	0.000	0.000
2019	8	953,568,354.555	0.000	310,342,745.798	658,637,340.054	0.000	0.000	0.000
2019	9	865,821,644.782	396,156.556	218,766,247.631	683,408,802.072	0.000	0.000	0.000
2019	10	654,165,054.056	22,049,433.268	65,555,161.892	677,373,482.949	0.000	0.000	0.000
2019	11	678,568,511.259	117,453,974.214	6,255,213.448	681,324,912.966	0.000	0.000	0.000
2019	12	972,340,284.276	280,107,531.545	80,807.673	770,268,926.588	0.000	0.000	0.000
2020	1	1,191,668,258.097	415,774,337.708	0.000	787,455,024.419	-26,836,043.219	0.000	0.000
2020	2	1,051,174,848.712	443,869,086.999	0.000	697,523,546.584	0.000	-93,206,930.047	0.000
2020	3	922,986,497.533	356,440,540.660	401,350.917	687,204,884.289	0.000	0.000	-42,943,296.803
2020	4	760,191,800.978	198,829,797.668	3,347,012.589	688,446,447.013	0.000	0.000	0.000
2020	5	630,634,358.246	63,249,916.950	23,561,938.666	675,996,183.381	0.000	0.000	0.000
2020	6	715,913,244.035	8,851,801.874	126,805,630.799	692,534,265.969	0.000	0.000	0.000
2020	7	921,007,220.173	109,896.559	292,893,494.002	679,514,625.793	0.000	0.000	0.000
2020	8	944,691,958.640	0.000	307,483,300.048	652,620,389.888	0.000	0.000	0.000
2020	9	857,539,602.136	390,723.688	216,778,533.768	677,119,906.157	0.000	0.000	0.000
2020	10	646,947,316.034	21,751,113.242	64,971,498.324	671,037,728.521	0.000	0.000	0.000
2020	11	670,495,600.345	115,891,295.156	6,200,777.424	674,869,117.134	0.000	0.000	0.000
2020	12	960,463,339.659	276,123,178.008	80,047.146	762,377,096.035	0.000	0.000	0.000
2021	1	1,178,737,675.143	410,564,377.113	0.000	779,734,402.060	-26,836,043.219	0.000	0.000
2021	2	1,038,912,882.616	438,349,055.163	0.000	690,781,612.324	0.000	-93,206,930.047	0.000
2021	3	912,046,330.538	352,042,846.607	398,361.455	680,665,400.809	0.000	0.000	-42,943,296.803
2021	4	751,310,727.001	196,391,820.058	3,322,369.939	682,027,993.296	0.000	0.000	0.000
2021	5	623,536,920.582	62,480,502.653	23,391,065.399	669,839,033.280	0.000	0.000	0.000
2021	6	708,772,453.929	8,745,429.757	125,905,982.531	686,399,496.248	0.000	0.000	0.000

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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2021	7	913,100,011.328	108,594.598	290,866,999.168	673,635,213.742	0.000	0.000	0.000
2021	8	937,004,167.339	0.000	305,408,715.038	647,007,183.598	0.000	0.000	0.000
2021	9	850,283,112.014	386,220.938	215,353,859.626	671,292,592.927	0.000	0.000	0.000
2021	10	640,434,731.748	21,504,443.518	64,556,653.039	665,186,659.242	0.000	0.000	0.000
2021	11	663,189,278.949	114,592,685.960	6,162,136.339	668,900,046.019	0.000	0.000	0.000
2021	12	952,325,956.523	273,721,304.309	79,712.615	756,641,921.130	0.000	0.000	0.000
2022	1	1,170,732,106.551	407,570,990.600	0.000	774,722,219.981	-26,836,043.219	0.000	0.000
2022	2	1,031,495,967.504	435,227,737.832	0.000	686,486,014.543	0.000	-93,206,930.047	0.000
2022	3	905,493,700.676	349,585,125.400	397,444.959	676,571,408.651	0.000	0.000	-42,943,296.803
2022	4	746,055,465.317	195,055,949.729	3,315,234.244	678,115,737.635	0.000	0.000	0.000
2022	5	619,367,364.695	62,059,994.622	23,342,347.738	666,138,703.085	0.000	0.000	0.000
2022	6	704,797,271.067	8,687,049.926	125,647,867.813	682,740,807.935	0.000	0.000	0.000
2022	7	909,003,856.840	107,872.983	290,275,047.808	670,131,732.229	0.000	0.000	0.000
2022	8	932,993,228.824	0.000	304,782,994.474	643,621,965.647	0.000	0.000	0.000
2022	9	846,234,125.098	383,633.737	214,897,701.059	667,702,351.779	0.000	0.000	0.000
2022	10	636,401,762.334	21,357,936.071	64,412,597.730	661,444,252.586	0.000	0.000	0.000
2022	11	658,435,176.314	113,798,241.979	6,147,641.564	664,954,882.141	0.000	0.000	0.000
2022	12	945,741,088.443	271,785,695.212	79,514.383	751,992,860.378	0.000	0.000	0.000
2023	1	1,163,372,579.466	404,542,708.393	0.000	770,390,975.104	-26,836,043.219	0.000	0.000
2023	2	1,024,405,827.065	431,947,892.140	0.000	682,675,719.797	0.000	-93,206,930.047	0.000
2023	3	899,136,730.109	346,934,163.656	396,631.652	672,866,213.133	0.000	0.000	-42,943,296.803
2023	4	740,971,774.637	193,578,078.061	3,308,339.335	674,516,813.531	0.000	0.000	0.000
2023	5	615,456,343.891	61,594,122.717	23,294,361.714	662,741,540.212	0.000	0.000	0.000
2023	6	701,122,204.245	8,622,107.405	125,390,821.096	679,387,730.352	0.000	0.000	0.000
2023	7	905,213,316.522	107,071.927	289,684,332.216	666,932,708.559	0.000	0.000	0.000
2023	8	929,301,947.543	0.000	304,169,120.160	640,544,558.680	0.000	0.000	0.000
2023	9	842,584,955.598	380,829.483	214,473,743.369	664,479,944.223	0.000	0.000	0.000
2023	10	632,848,235.733	21,204,918.186	64,291,675.701	658,164,665.898	0.000	0.000	0.000
2023	11	654,246,154.223	112,998,775.154	6,136,664.632	661,576,303.806	0.000	0.000	0.000
2023	12	939,617,108.321	269,773,724.315	79,346.542	747,881,018.994	0.000	0.000	0.000
2024	1	1,156,622,894.601	401,546,245.114	0.000	766,637,753.517	-26,836,043.219	0.000	0.000
2024	2	1,018,067,081.409	428,806,342.844	0.000	679,478,523.436	0.000	-93,206,930.047	0.000
2024	3	893,553,676.945	344,417,012.625	396,179.557	669,800,763.096	0.000	0.000	-42,943,296.803

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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2024	4	736,569,588.121	192,160,794.802	3,304,405.845	671,535,843.766	0.000	0.000	0.000
2024	5	612,138,643.562	61,139,714.815	23,265,857.876	659,906,751.622	0.000	0.000	0.000
2024	6	698,102,975.947	8,558,138.857	125,236,214.146	676,587,077.552	0.000	0.000	0.000
2024	7	902,164,787.769	106,273.062	289,320,524.721	664,248,786.166	0.000	0.000	0.000
2024	8	926,359,112.283	0.000	303,802,686.316	637,968,157.264	0.000	0.000	0.000
2024	9	839,607,085.086	378,034.498	214,220,652.905	661,757,959.159	0.000	0.000	0.000
2024	10	629,783,733.090	21,050,021.013	64,217,032.200	655,329,703.929	0.000	0.000	0.000
2024	11	650,443,763.309	112,179,035.773	6,129,747.038	658,600,569.867	0.000	0.000	0.000
2024	12	934,122,053.379	267,801,829.754	79,254.168	744,357,950.988	0.000	0.000	0.000
2025	1	1,150,516,099.878	398,671,272.035	0.000	763,405,931.873	-26,836,043.219	0.000	0.000
2025	2	1,012,261,211.759	425,767,938.809	0.000	676,711,057.822	0.000	-93,206,930.047	0.000
2025	3	888,530,847.882	342,010,982.102	396,141.140	667,184,002.973	0.000	0.000	-42,943,296.803
2025	4	732,810,926.930	190,850,645.195	3,304,474.269	669,087,263.757	0.000	0.000	0.000
2025	5	609,468,982.282	60,729,055.935	23,267,765.484	657,645,841.614	0.000	0.000	0.000
2025	6	695,918,248.315	8,502,008.729	125,258,335.582	674,436,358.610	0.000	0.000	0.000
2025	7	900,244,197.914	105,588.552	289,396,154.809	662,253,250.734	0.000	0.000	0.000
2025	8	924,475,862.009	0.000	303,874,873.886	636,012,719.420	0.000	0.000	0.000
2025	9	837,563,488.203	375,581.216	214,271,246.090	659,666,222.375	0.000	0.000	0.000
2025	10	627,429,492.186	20,912,680.177	64,230,764.113	653,099,071.948	0.000	0.000	0.000
2025	11	647,299,790.024	111,440,367.635	6,130,775.571	656,194,236.188	0.000	0.000	0.000
2025	12	929,482,704.940	266,030,095.030	79,264.324	741,490,327.117	0.000	0.000	0.000
2026	1	1,145,445,251.050	396,139,909.963	0.000	760,866,445.117	-26,836,043.219	0.000	0.000
2026	2	1,007,354,859.600	423,052,720.827	0.000	674,519,923.644	0.000	-93,206,930.047	0.000
2026	3	884,250,446.692	339,824,157.410	396,498.443	665,090,069.172	0.000	0.000	-42,943,296.803
2026	4	729,594,054.904	189,627,318.838	3,307,349.727	667,090,842.630	0.000	0.000	0.000
2026	5	607,247,066.541	60,339,992.842	23,287,556.398	655,793,198.051	0.000	0.000	0.000
2026	6	694,154,081.450	8,446,976.965	125,357,264.271	672,628,294.821	0.000	0.000	0.000
2026	7	898,750,153.482	104,900.751	289,615,821.806	660,540,227.105	0.000	0.000	0.000
2026	8	923,050,499.237	0.000	304,111,345.435	634,350,885.099	0.000	0.000	0.000
2026	9	835,951,731.233	373,152.140	214,443,249.956	657,884,890.615	0.000	0.000	0.000
2026	10	625,448,726.070	20,778,087.272	64,284,546.274	651,199,116.576	0.000	0.000	0.000
2026	11	644,589,234.349	110,735,805.440	6,136,454.954	654,182,563.324	0.000	0.000	0.000
2026	12	925,685,057.840	264,459,009.506	79,363.730	739,263,666.135	0.000	0.000	0.000

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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2027	1	1,141,324,360.327	393,864,084.819	0.000	759,021,379.538	-26,836,043.219	0.000	0.000
2027	2	1,003,379,085.275	420,630,760.281	0.000	672,966,109.865	0.000	-93,206,930.047	0.000
2027	3	880,884,916.506	337,896,455.452	397,300.054	663,651,439.333	0.000	0.000	-42,943,296.803
2027	4	727,178,007.935	188,544,272.650	3,314,015.168	665,751,176.408	0.000	0.000	0.000
2027	5	605,759,349.616	59,996,652.594	23,335,166.850	654,601,210.923	0.000	0.000	0.000
2027	6	693,280,304.286	8,399,198.419	125,618,821.806	671,540,738.668	0.000	0.000	0.000
2027	7	898,387,131.982	104,311.258	290,230,838.533	659,562,778.372	0.000	0.000	0.000
2027	8	922,766,088.696	0.000	304,772,104.066	633,405,715.927	0.000	0.000	0.000
2027	9	835,439,825.537	371,123.895	214,931,620.186	656,886,642.933	0.000	0.000	0.000
2027	10	624,367,592.223	20,666,344.441	64,433,536.196	650,080,735.637	0.000	0.000	0.000
2027	11	642,769,727.294	110,147,516.253	6,150,984.325	652,936,816.086	0.000	0.000	0.000
2027	12	922,673,999.305	263,029,144.839	79,546.046	737,682,289.950	0.000	0.000	0.000
2028	1	1,138,045,551.715	391,814,305.608	0.000	757,792,350.137	-26,836,043.219	0.000	0.000
2028	2	1,000,196,577.287	418,452,891.416	0.000	671,961,470.742	0.000	-93,206,930.047	0.000
2028	3	878,238,259.156	336,153,821.909	398,551.807	662,746,163.773	0.000	0.000	-42,943,296.803
2028	4	725,435,357.220	187,576,753.303	3,324,470.503	664,965,589.706	0.000	0.000	0.000
2028	5	604,869,350.000	59,687,448.145	23,408,784.437	653,946,798.168	0.000	0.000	0.000
2028	6	693,088,303.680	8,355,910.013	126,014,681.936	670,996,166.338	0.000	0.000	0.000
2028	7	898,845,574.829	103,773.177	291,143,806.120	659,108,791.713	0.000	0.000	0.000
2028	8	923,263,624.796	0.000	305,729,119.046	632,946,237.046	0.000	0.000	0.000
2028	9	835,560,286.327	369,204.310	215,605,277.821	656,335,365.674	0.000	0.000	0.000
2028	10	623,762,806.353	20,559,289.603	64,635,096.742	649,381,444.060	0.000	0.000	0.000
2028	11	641,363,388.317	109,576,000.413	6,170,177.149	652,082,800.124	0.000	0.000	0.000
2028	12	920,393,612.117	261,733,816.080	79,810.620	736,696,966.948	0.000	0.000	0.000
2029	1	1,137,184,908.568	389,754,552.182	0.000	758,991,460.417	-26,836,043.219	0.000	0.000
2029	2	999,144,387.239	416,282,539.587	0.000	673,079,632.523	0.000	-93,206,930.047	0.000
2029	3	877,678,901.269	334,433,708.799	400,181.765	663,905,289.039	0.000	0.000	-42,943,296.803
2029	4	725,756,916.532	186,631,738.427	3,338,256.331	666,218,378.066	0.000	0.000	0.000
2029	5	605,952,424.346	59,391,433.022	23,507,206.799	655,227,465.275	0.000	0.000	0.000
2029	6	694,926,124.907	8,315,118.412	126,551,799.201	672,337,661.901	0.000	0.000	0.000
2029	7	901,494,162.256	103,274.317	292,400,864.705	660,500,819.414	0.000	0.000	0.000
2029	8	925,982,242.393	0.000	307,065,534.745	634,328,438.944	0.000	0.000	0.000
2029	9	837,986,010.632	367,484.266	216,559,599.302	657,808,488.541	0.000	0.000	0.000

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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2029	10	625,401,337.177	20,465,053.310	64,924,640.200	650,824,667.719	0.000	0.000	0.000
2029	11	642,338,778.094	109,082,686.673	6,198,180.659	653,523,500.131	0.000	0.000	0.000
2029	12	920,720,716.451	260,536,168.811	80,167.967	738,221,361.203	0.000	0.000	0.000
2030	1	1,133,696,063.248	387,901,391.931	0.000	757,355,775.347	-26,836,043.219	0.000	0.000
2030	2	995,839,963.403	414,303,146.094	0.000	671,754,602.180	0.000	-93,206,930.047	0.000
2030	3	874,906,992.131	332,843,094.085	402,068.661	662,722,107.717	0.000	0.000	-42,943,296.803
2030	4	723,866,467.278	185,743,353.029	3,353,972.675	665,200,597.865	0.000	0.000	0.000
2030	5	604,998,693.018	59,108,643.202	23,617,767.953	654,445,962.614	0.000	0.000	0.000
2030	6	694,933,813.099	8,275,533.853	127,146,732.044	671,790,001.809	0.000	0.000	0.000
2030	7	902,440,412.384	102,783.017	293,775,584.324	660,072,841.223	0.000	0.000	0.000
2030	8	926,952,067.324	0.000	308,509,956.306	633,853,842.314	0.000	0.000	0.000
2030	9	838,366,281.111	365,740.694	217,579,128.059	657,170,973.835	0.000	0.000	0.000
2030	10	624,734,884.800	20,368,098.584	65,230,525.550	649,949,284.718	0.000	0.000	0.000
2030	11	640,729,734.033	108,566,704.082	6,227,404.988	652,401,214.331	0.000	0.000	0.000
2030	12	918,174,755.397	259,355,719.190	80,558.608	736,855,459.130	0.000	0.000	0.000
2031	1	1,131,070,199.962	386,154,326.869	0.000	756,476,977.123	-26,836,043.219	0.000	0.000
2031	2	993,330,143.940	412,447,856.223	0.000	671,100,072.589	0.000	-93,206,930.047	0.000
2031	3	872,906,093.125	331,361,845.834	404,517.209	662,200,008.415	0.000	0.000	-42,943,296.803
2031	4	722,710,228.669	184,922,075.956	3,374,471.295	664,845,137.710	0.000	0.000	0.000
2031	5	604,743,530.737	58,848,847.990	23,762,569.866	654,305,793.632	0.000	0.000	0.000
2031	6	695,777,716.233	8,239,379.951	127,928,711.525	671,888,079.365	0.000	0.000	0.000
2031	7	904,456,304.663	102,336.563	295,587,553.434	660,277,210.847	0.000	0.000	0.000
2031	8	929,007,957.171	0.000	310,418,777.803	634,000,910.664	0.000	0.000	0.000
2031	9	839,746,403.344	364,172.633	218,930,128.657	657,201,663.531	0.000	0.000	0.000
2031	10	624,872,435.925	20,281,404.743	65,637,113.198	649,766,942.036	0.000	0.000	0.000
2031	11	639,917,496.051	108,108,323.108	6,266,388.820	652,008,373.493	0.000	0.000	0.000
2031	12	916,317,788.255	258,204,757.890	81,048.991	736,148,962.905	0.000	0.000	0.000
2032	1	1,129,091,251.185	384,275,520.134	0.000	756,376,835.081	-26,836,043.219	0.000	0.000
2032	2	991,339,252.514	410,443,280.014	0.000	671,113,757.371	0.000	-93,206,930.047	0.000
2032	3	871,414,671.042	329,753,523.338	406,865.764	662,314,560.273	0.000	0.000	-42,943,296.803
2032	4	722,081,101.624	184,023,863.268	3,394,059.402	665,094,635.246	0.000	0.000	0.000
2032	5	605,014,659.192	58,562,952.382	23,900,547.235	654,724,840.325	0.000	0.000	0.000
2032	6	697,110,235.096	8,199,355.618	128,671,924.798	672,517,409.286	0.000	0.000	0.000

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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2032	7	906,876,976.540	101,839.581	297,305,958.501	660,979,974.639	0.000	0.000	0.000
2032	8	931,435,300.188	0.000	312,224,431.330	634,622,600.155	0.000	0.000	0.000
2032	9	841,546,590.297	362,404.597	220,204,191.231	657,729,555.946	0.000	0.000	0.000
2032	10	625,478,729.557	20,182,907.299	66,019,111.336	650,089,734.974	0.000	0.000	0.000
2032	11	639,552,132.110	107,583,009.027	6,302,853.718	652,131,858.734	0.000	0.000	0.000
2032	12	915,089,013.596	256,964,635.691	81,524.410	736,159,835.024	0.000	0.000	0.000
2033	1	1,127,969,654.544	382,511,054.307	0.000	757,019,704.267	-26,836,043.219	0.000	0.000
2033	2	990,097,684.507	408,552,882.979	0.000	671,762,586.399	0.000	-93,206,930.047	0.000
2033	3	870,611,218.471	328,229,899.892	409,249.186	663,032,347.726	0.000	0.000	-42,943,296.803
2033	4	722,083,898.214	183,171,710.468	3,413,908.913	665,929,735.125	0.000	0.000	0.000
2033	5	605,845,178.759	58,291,165.910	24,040,091.675	655,687,601.925	0.000	0.000	0.000
2033	6	698,970,960.816	8,161,215.068	129,421,887.816	673,666,312.539	0.000	0.000	0.000
2033	7	909,811,136.179	101,364.715	299,035,726.638	662,184,841.006	0.000	0.000	0.000
2033	8	934,362,039.373	0.000	314,037,387.093	635,736,383.577	0.000	0.000	0.000
2033	9	843,869,639.608	360,705.306	221,480,173.241	658,778,322.537	0.000	0.000	0.000
2033	10	626,628,525.424	20,088,006.847	66,400,898.275	650,952,644.355	0.000	0.000	0.000
2033	11	639,771,480.652	107,075,712.409	6,339,229.174	652,822,128.439	0.000	0.000	0.000
2033	12	914,365,955.538	255,696,364.245	81,980.329	736,704,592.494	0.000	0.000	0.000
2034	1	1,127,390,180.468	380,663,396.537	0.000	758,287,887.962	-26,836,043.219	0.000	0.000
2034	2	989,316,792.326	406,577,006.018	0.000	672,957,571.180	0.000	-93,206,930.047	0.000
2034	3	870,269,649.983	326,640,653.385	411,530.605	664,277,744.325	0.000	0.000	-42,943,296.803
2034	4	722,568,001.506	182,284,208.308	3,432,932.813	667,282,316.677	0.000	0.000	0.000
2034	5	607,143,382.213	58,008,636.395	24,174,037.443	657,134,389.126	0.000	0.000	0.000
2034	6	701,267,105.394	8,121,657.572	130,143,070.674	675,280,831.756	0.000	0.000	0.000
2034	7	913,139,807.682	100,873.573	300,702,724.747	663,847,005.543	0.000	0.000	0.000
2034	8	937,691,810.505	0.000	315,790,247.412	637,313,294.390	0.000	0.000	0.000
2034	9	846,660,878.480	358,962.799	222,718,246.938	660,333,230.220	0.000	0.000	0.000
2034	10	628,307,438.084	19,991,183.210	66,772,841.293	652,356,437.633	0.000	0.000	0.000
2034	11	640,564,847.477	106,560,938.131	6,374,821.422	654,094,677.292	0.000	0.000	0.000
2034	12	914,797,293.813	254,595,392.947	82,474.119	738,236,408.278	0.000	0.000	0.000
2035	1	1,127,891,584.437	379,233,887.451	0.000	760,218,801.017	-26,836,043.219	0.000	0.000
2035	2	989,587,159.814	405,058,868.511	0.000	674,746,076.174	0.000	-93,206,930.047	0.000
2035	3	870,898,049.321	325,428,250.971	414,072.718	666,116,003.964	0.000	0.000	-42,943,296.803

Indiana Michigan Power Company - Indiana
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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2035	4	723,867,306.357	181,611,368.443	3,454,203.882	669,233,190.323	0.000	0.000	0.000
2035	5	609,116,889.346	57,795,682.150	24,324,269.085	659,170,618.861	0.000	0.000	0.000
2035	6	704,269,129.177	8,092,006.195	130,954,274.026	677,501,303.563	0.000	0.000	0.000
2035	7	917,282,247.922	100,507.270	302,582,508.987	666,110,027.846	0.000	0.000	0.000
2035	8	941,828,948.164	0.000	317,769,943.013	639,470,736.447	0.000	0.000	0.000
2035	9	850,216,844.366	357,672.681	224,118,303.631	662,490,429.531	0.000	0.000	0.000
2035	10	630,658,392.335	19,919,652.196	67,193,583.655	654,358,180.537	0.000	0.000	0.000
2035	11	642,100,766.040	106,181,264.685	6,415,078.896	655,970,011.828	0.000	0.000	0.000
2035	12	915,962,520.690	253,717,824.762	83,002.736	740,278,674.722	0.000	0.000	0.000
2036	1	1,129,061,704.605	377,941,418.992	0.000	762,681,389.643	-26,836,043.219	0.000	0.000
2036	2	990,466,428.323	403,685,436.555	0.000	676,998,776.639	0.000	-93,206,930.047	0.000
2036	3	872,090,401.817	324,330,380.202	416,784.100	668,403,515.848	0.000	0.000	-42,943,296.803
2036	4	725,666,082.134	180,999,601.923	3,476,833.666	671,621,102.837	0.000	0.000	0.000
2036	5	611,533,210.837	57,601,238.830	24,483,687.249	661,621,965.508	0.000	0.000	0.000
2036	6	707,732,535.080	8,064,813.315	131,812,816.568	680,133,359.804	0.000	0.000	0.000
2036	7	921,922,946.569	100,169.501	304,565,642.101	668,767,931.148	0.000	0.000	0.000
2036	8	946,443,727.737	0.000	319,851,012.802	642,004,446.231	0.000	0.000	0.000
2036	9	854,221,675.750	356,467.106	225,583,830.082	665,030,940.039	0.000	0.000	0.000
2036	10	633,412,940.264	19,852,333.541	67,632,172.736	656,741,458.039	0.000	0.000	0.000
2036	11	644,041,330.775	105,821,397.521	6,456,871.019	658,228,651.603	0.000	0.000	0.000
2036	12	917,143,452.068	252,714,654.391	83,505.317	742,462,273.890	0.000	0.000	0.000
2037	1	1,130,006,200.734	376,505,409.536	0.000	765,061,895.229	-26,836,043.219	0.000	0.000
2037	2	991,078,732.420	402,138,796.093	0.000	679,157,721.199	0.000	-93,206,930.047	0.000
2037	3	873,013,211.514	323,077,002.893	419,203.423	670,577,283.531	0.000	0.000	-42,943,296.803
2037	4	727,242,181.772	180,295,551.634	3,496,929.900	673,881,156.530	0.000	0.000	0.000
2037	5	613,758,332.314	57,375,800.198	24,624,631.933	663,931,580.934	0.000	0.000	0.000
2037	6	710,923,832.830	8,033,060.829	132,568,645.986	682,600,580.622	0.000	0.000	0.000
2037	7	926,153,703.529	99,773.082	306,306,145.397	671,258,581.231	0.000	0.000	0.000
2037	8	950,635,418.069	0.000	321,672,128.682	644,375,020.683	0.000	0.000	0.000
2037	9	857,871,088.334	355,040.897	226,863,460.896	667,402,148.018	0.000	0.000	0.000
2037	10	635,935,309.054	19,772,471.225	68,014,373.103	658,961,488.778	0.000	0.000	0.000
2037	11	645,750,435.987	105,393,515.392	6,493,231.322	660,329,278.642	0.000	0.000	0.000
2037	12	918,716,960.714	251,815,357.579	84,008.002	744,934,576.664	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2038	1	1,131,446,531.971	375,275,070.196	0.000	767,732,565.805	-26,836,043.219	0.000	0.000
2038	2	992,180,162.068	400,821,426.191	0.000	681,576,520.748	0.000	-93,206,930.047	0.000
2038	3	874,388,872.997	322,015,906.963	421,742.693	673,011,501.674	0.000	0.000	-42,943,296.803
2038	4	729,188,025.188	179,701,515.939	3,518,070.507	676,399,895.034	0.000	0.000	0.000
2038	5	616,275,020.231	57,186,128.191	24,773,188.834	666,489,383.957	0.000	0.000	0.000
2038	6	714,411,721.722	8,006,424.421	133,366,861.638	685,316,890.269	0.000	0.000	0.000
2038	7	930,726,563.645	99,441.201	308,146,771.679	673,991,146.946	0.000	0.000	0.000
2038	8	955,176,351.710	0.000	323,601,932.371	646,986,150.636	0.000	0.000	0.000
2038	9	861,864,767.278	353,854.496	228,222,752.030	670,037,722.229	0.000	0.000	0.000
2038	10	638,775,367.203	19,706,280.971	68,421,438.371	661,460,671.912	0.000	0.000	0.000
2038	11	647,836,871.067	105,040,212.720	6,532,058.498	662,730,189.219	0.000	0.000	0.000
2038	12	920,569,228.517	251,002,161.826	84,518.523	747,599,529.698	0.000	0.000	0.000
2039	1	1,133,183,186.165	374,253,037.313	0.000	770,491,252.882	-26,836,043.219	0.000	0.000
2039	2	993,582,560.612	399,728,084.094	0.000	684,072,261.389	0.000	-93,206,930.047	0.000
2039	3	876,022,297.443	321,136,920.980	424,270.423	675,521,384.373	0.000	0.000	-42,943,296.803
2039	4	731,313,141.830	179,211,020.048	3,539,156.135	678,994,421.938	0.000	0.000	0.000
2039	5	618,898,163.031	57,030,096.266	24,921,686.379	669,120,061.136	0.000	0.000	0.000
2039	6	717,978,800.049	7,984,603.381	134,166,655.345	688,105,995.930	0.000	0.000	0.000
2039	7	935,382,415.656	99,170.623	309,995,936.978	676,798,104.237	0.000	0.000	0.000
2039	8	959,808,692.312	0.000	325,545,835.407	649,674,588.201	0.000	0.000	0.000
2039	9	865,960,603.031	352,896.853	229,595,460.132	672,761,807.523	0.000	0.000	0.000
2039	10	641,732,591.487	19,653,125.644	68,833,572.194	664,058,917.702	0.000	0.000	0.000
2039	11	650,105,062.906	104,757,793.140	6,571,458.644	665,241,400.491	0.000	0.000	0.000
2039	12	922,811,213.688	250,391,192.005	85,045.748	750,451,957.466	0.000	0.000	0.000
2040	1	1,132,992,051.217	373,488,997.088	0.000	771,064,158.160	-26,836,043.219	0.000	0.000
2040	2	993,402,666.578	398,919,518.690	0.000	684,700,932.760	0.000	-93,206,930.047	0.000
2040	3	876,118,429.664	320,493,452.385	426,875.216	676,258,380.396	0.000	0.000	-42,943,296.803
2040	4	731,865,861.129	178,853,328.939	3,560,906.920	679,883,081.562	0.000	0.000	0.000
2040	5	620,021,617.307	56,916,658.430	25,074,977.473	670,203,662.154	0.000	0.000	0.000
2040	6	720,153,699.091	7,968,745.326	134,992,052.396	689,471,355.976	0.000	0.000	0.000
2040	7	938,734,265.343	98,973.585	311,902,141.555	678,243,946.384	0.000	0.000	0.000
2040	8	963,130,756.059	0.000	327,545,434.508	650,997,052.848	0.000	0.000	0.000
2040	9	868,570,542.595	352,191.660	231,003,489.554	673,964,422.859	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2040	10	643,071,605.142	19,613,667.399	69,254,878.170	665,016,083.625	0.000	0.000	0.000
2040	11	650,663,985.221	104,546,472.607	6,611,601.815	665,971,500.169	0.000	0.000	0.000
2040	12	922,303,568.934	249,647,198.198	85,499.560	750,687,852.707	0.000	0.000	0.000
2041	1	1,132,863,195.951	372,413,281.609	0.000	772,011,018.372	-26,836,043.219	0.000	0.000
2041	2	993,170,772.219	397,756,730.977	0.000	685,631,826.113	0.000	-93,206,930.047	0.000
2041	3	876,180,009.737	319,547,604.265	429,104.278	677,263,579.527	0.000	0.000	-42,943,296.803
2041	4	732,487,528.066	178,320,391.266	3,579,406.960	681,019,186.132	0.000	0.000	0.000
2041	5	621,273,257.918	56,745,528.253	25,204,627.976	671,496,782.439	0.000	0.000	0.000
2041	6	722,367,438.444	7,944,588.626	135,687,011.228	691,014,293.197	0.000	0.000	0.000
2041	7	941,948,173.300	98,671.352	313,501,721.951	679,858,576.178	0.000	0.000	0.000
2041	8	966,295,200.336	0.000	329,218,670.729	652,488,260.903	0.000	0.000	0.000
2041	9	871,131,144.035	351,100.757	232,179,245.669	675,350,359.087	0.000	0.000	0.000
2041	10	644,517,011.660	19,552,499.340	69,606,076.251	666,171,460.121	0.000	0.000	0.000
2041	11	651,316,303.930	104,218,356.616	6,645,015.836	666,918,520.847	0.000	0.000	0.000
2041	12	922,685,450.042	248,954,339.548	85,956.589	751,762,135.436	0.000	0.000	0.000
2042	1	1,133,410,290.708	371,515,921.293	0.000	773,455,473.444	-26,836,043.219	0.000	0.000
2042	2	993,578,718.518	396,796,499.054	0.000	687,000,004.335	0.000	-93,206,930.047	0.000
2042	3	876,846,268.908	318,775,781.014	431,389.166	678,699,377.061	0.000	0.000	-42,943,296.803
2042	4	733,635,266.025	177,889,618.647	3,598,467.866	682,578,635.804	0.000	0.000	0.000
2042	5	622,960,803.932	56,608,546.811	25,338,906.150	673,187,031.721	0.000	0.000	0.000
2042	6	724,996,754.164	7,925,444.422	136,410,523.728	692,939,240.621	0.000	0.000	0.000
2042	7	945,606,651.245	98,434.110	315,175,167.756	681,843,845.560	0.000	0.000	0.000
2042	8	969,923,102.036	0.000	330,979,034.706	654,355,798.626	0.000	0.000	0.000
2042	9	874,182,521.165	350,263.065	233,423,070.023	677,158,749.554	0.000	0.000	0.000
2042	10	646,457,399.615	19,506,078.407	69,979,828.879	667,784,516.381	0.000	0.000	0.000
2042	11	652,551,634.579	103,972,276.684	6,680,788.015	668,364,159.248	0.000	0.000	0.000
2042	12	923,648,789.255	248,387,548.739	86,425.493	753,291,796.554	0.000	0.000	0.000
2043	1	1,134,653,322.085	370,783,771.107	0.000	775,430,655.008	-26,836,043.219	0.000	0.000
2043	2	994,631,211.326	396,019,197.413	0.000	688,829,798.785	0.000	-93,206,930.047	0.000
2043	3	878,105,946.948	318,153,935.182	433,762.511	680,578,527.589	0.000	0.000	-42,943,296.803
2043	4	735,299,955.765	177,543,816.708	3,618,288.610	684,569,306.738	0.000	0.000	0.000
2043	5	625,078,207.283	56,498,825.014	25,478,609.963	675,274,453.057	0.000	0.000	0.000
2043	6	728,030,759.578	7,910,129.038	137,163,402.721	695,235,682.426	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
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Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2043	7	949,690,564.578	98,244.592	316,917,050.397	684,186,065.770	0.000	0.000	0.000
2043	8	973,973,840.794	0.000	332,810,553.953	656,575,018.138	0.000	0.000	0.000
2043	9	877,667,505.968	349,592.856	234,716,332.877	679,351,141.712	0.000	0.000	0.000
2043	10	648,826,139.809	19,468,833.397	70,367,906.279	669,802,424.185	0.000	0.000	0.000
2043	11	654,266,211.646	103,773,809.131	6,717,844.785	670,240,147.099	0.000	0.000	0.000
2043	12	925,119,616.808	247,895,261.590	86,899.717	755,254,437.031	0.000	0.000	0.000
2044	1	1,136,628,510.185	370,219,987.071	0.000	777,969,627.145	-26,836,043.219	0.000	0.000
2044	2	996,346,440.208	395,420,831.917	0.000	691,143,393.163	0.000	-93,206,930.047	0.000
2044	3	879,977,000.698	317,678,192.701	436,181.350	682,922,904.981	0.000	0.000	-42,943,296.803
2044	4	737,495,784.987	177,280,070.799	3,638,507.154	687,008,663.326	0.000	0.000	0.000
2044	5	627,637,862.521	56,415,472.796	25,621,271.187	677,774,799.289	0.000	0.000	0.000
2044	6	731,471,049.292	7,898,508.554	137,932,272.857	697,918,722.488	0.000	0.000	0.000
2044	7	954,177,320.533	98,100.492	318,693,989.112	686,896,027.109	0.000	0.000	0.000
2044	8	978,425,409.004	0.000	334,677,276.726	659,159,863.574	0.000	0.000	0.000
2044	9	881,578,889.046	349,082.820	236,033,635.422	681,945,732.282	0.000	0.000	0.000
2044	10	651,641,462.690	19,440,571.314	70,763,289.629	672,250,625.800	0.000	0.000	0.000
2044	11	656,495,487.703	103,624,102.035	6,755,648.796	672,581,326.241	0.000	0.000	0.000
2044	12	927,094,726.962	247,464,543.975	87,368.348	757,659,796.170	0.000	0.000	0.000
2045	1	1,138,658,803.659	369,540,799.974	0.000	780,679,107.716	-26,836,043.219	0.000	0.000
2045	2	998,066,004.850	394,691,580.761	0.000	693,592,208.961	0.000	-93,206,930.047	0.000
2045	3	881,849,020.576	317,088,364.273	438,470.116	685,382,464.520	0.000	0.000	-42,943,296.803
2045	4	739,727,132.690	176,950,080.076	3,657,589.815	689,550,919.090	0.000	0.000	0.000
2045	5	630,246,981.380	56,310,206.076	25,755,589.499	680,354,866.556	0.000	0.000	0.000
2045	6	734,919,588.412	7,883,748.277	138,655,389.223	700,658,905.519	0.000	0.000	0.000
2045	7	958,609,825.701	97,917.090	320,365,588.397	689,657,116.395	0.000	0.000	0.000
2045	8	982,819,080.874	0.000	336,433,314.966	661,797,497.204	0.000	0.000	0.000
2045	9	885,471,936.526	348,428.117	237,271,974.426	684,601,095.461	0.000	0.000	0.000
2045	10	654,493,508.483	19,403,999.643	71,134,406.034	674,768,126.858	0.000	0.000	0.000
2045	11	658,754,780.250	103,428,459.465	6,791,059.287	675,000,850.867	0.000	0.000	0.000
2045	12	929,238,877.559	246,989,884.595	87,824.420	760,278,150.074	0.000	0.000	0.000
2046	1	1,140,851,588.197	368,941,813.992	0.000	783,470,878.234	-26,836,043.219	0.000	0.000
2046	2	999,939,966.382	394,047,507.564	0.000	696,110,243.689	0.000	-93,206,930.047	0.000
2046	3	883,854,318.873	316,566,746.130	440,749.423	687,907,101.653	0.000	0.000	-42,943,296.803

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2046	4	742,051,169.818	176,656,240.996	3,676,558.066	692,149,827.047	0.000	0.000	0.000
2046	5	632,910,837.514	56,215,805.111	25,888,826.823	682,979,886.331	0.000	0.000	0.000
2046	6	738,397,176.244	7,870,418.163	139,371,092.900	703,434,119.788	0.000	0.000	0.000
2046	7	963,049,204.935	97,750.129	322,015,615.065	692,446,635.922	0.000	0.000	0.000
2046	8	987,214,033.018	0.000	338,162,534.291	664,463,230.023	0.000	0.000	0.000
2046	9	889,376,560.580	347,824.403	238,488,943.780	687,289,353.875	0.000	0.000	0.000
2046	10	657,378,872.348	19,370,080.987	71,498,388.590	677,323,426.823	0.000	0.000	0.000
2046	11	661,071,688.971	103,246,134.597	6,825,729.943	677,465,413.800	0.000	0.000	0.000
2046	12	931,486,976.418	246,552,379.445	88,272.159	762,963,306.343	0.000	0.000	0.000
2047	1	1,143,206,018.918	368,381,288.176	0.000	786,385,834.773	-26,836,043.219	0.000	0.000
2047	2	1,001,966,751.479	393,446,407.431	0.000	698,738,128.919	0.000	0.000	0.000
2047	3	886,006,290.110	316,081,967.319	443,009.090	690,541,592.034	0.000	-93,206,930.047	0.000
2047	4	744,508,490.392	176,384,475.173	3,695,385.138	694,860,086.373	0.000	0.000	0.000
2047	5	635,689,205.824	56,128,925.968	26,021,239.565	685,712,721.042	0.000	0.000	0.000
2047	6	741,977,472.409	7,858,193.003	140,082,952.236	706,314,781.779	0.000	0.000	0.000
2047	7	967,586,676.233	97,597.494	323,657,987.266	695,341,887.654	0.000	0.000	0.000
2047	8	991,708,635.412	0.000	339,884,305.304	667,236,061.404	0.000	0.000	0.000
2047	9	893,395,714.372	347,274.426	239,701,014.715	690,096,986.708	0.000	0.000	0.000
2047	10	660,394,397.974	19,339,225.581	71,860,998.498	680,007,197.947	0.000	0.000	0.000
2047	11	663,542,117.669	103,080,280.645	6,860,262.878	680,067,163.515	0.000	0.000	0.000
2047	12	933,927,945.637	246,151,408.927	88,717.223	765,804,801.018	0.000	0.000	0.000
2048	1	1,145,638,109.067	367,825,095.744	0.000	789,374,117.353	-26,836,043.219	0.000	0.000
2048	2	1,004,054,979.594	392,846,526.035	0.000	701,426,238.430	0.000	-93,206,930.047	0.000
2048	3	888,209,643.896	315,595,007.034	445,171.385	693,229,743.810	0.000	0.000	-42,943,296.803
2048	4	747,006,386.668	176,108,288.659	3,713,340.100	697,616,214.200	0.000	0.000	0.000
2048	5	638,492,062.630	56,039,504.202	26,147,030.906	688,479,208.273	0.000	0.000	0.000
2048	6	745,541,820.302	7,845,451.843	140,756,525.181	709,218,297.886	0.000	0.000	0.000
2048	7	972,043,077.900	97,436.279	325,205,126.611	698,251,311.190	0.000	0.000	0.000
2048	8	996,104,099.095	0.000	341,498,758.662	670,017,071.729	0.000	0.000	0.000
2048	9	897,335,835.737	346,677.799	240,832,030.880	692,906,688.535	0.000	0.000	0.000
2048	10	663,379,281.468	19,305,341.013	72,197,801.384	682,689,163.123	0.000	0.000	0.000
2048	11	665,986,169.680	102,896,042.130	6,892,193.100	682,663,523.819	0.000	0.000	0.000
2048	12	936,309,451.215	245,702,482.882	89,127.182	768,634,822.682	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2049	1	1,148,194,644.869	367,312,399.778	0.000	792,443,349.121	-26,836,043.219	0.000	0.000
2049	2	1,006,256,463.878	392,291,898.353	0.000	704,182,350.396	0.000	-93,206,930.047	0.000
2049	3	890,511,927.130	315,143,488.238	447,267.365	695,981,449.860	0.000	0.000	-42,943,296.803
2049	4	749,583,078.709	175,851,408.874	3,730,732.022	700,432,394.104	0.000	0.000	0.000
2049	5	641,351,054.225	55,956,084.718	26,268,791.396	691,299,858.861	0.000	0.000	0.000
2049	6	749,134,839.368	7,833,532.340	141,408,060.006	712,171,701.630	0.000	0.000	0.000
2049	7	976,494,172.642	97,285.053	326,700,605.034	701,207,078.736	0.000	0.000	0.000
2049	8	1,000,488,804.792	0.000	343,058,211.573	672,842,324.515	0.000	0.000	0.000
2049	9	901,283,585.021	346,115.271	241,923,743.822	695,763,287.405	0.000	0.000	0.000
2049	10	666,402,263.749	19,273,318.078	72,522,673.205	685,419,296.519	0.000	0.000	0.000
2049	11	668,489,043.646	102,721,532.798	6,922,970.453	685,310,129.764	0.000	0.000	0.000
2049	12	938,770,044.670	245,276,032.557	89,521.974	771,521,471.670	0.000	0.000	0.000
2050	1	1,150,934,409.020	366,845,389.989	0.000	795,650,123.061	-26,836,043.219	0.000	0.000
2050	2	1,008,624,500.551	391,785,368.381	0.000	707,056,917.041	0.000	-93,206,930.047	0.000
2050	3	892,965,858.540	314,730,056.417	449,407.608	698,846,672.849	0.000	0.000	-42,943,296.803
2050	4	752,290,975.433	175,615,481.598	3,748,486.774	703,358,463.352	0.000	0.000	0.000
2050	5	644,321,777.746	55,879,237.695	26,393,062.029	694,223,158.772	0.000	0.000	0.000
2050	6	752,840,754.709	7,822,519.917	142,072,870.290	715,223,819.109	0.000	0.000	0.000
2050	7	981,068,926.547	97,144.934	328,226,211.566	704,256,366.229	0.000	0.000	0.000
2050	8	1,004,994,675.777	0.000	344,648,729.852	675,757,677.221	0.000	0.000	0.000
2050	9	905,349,318.743	345,591.120	243,036,947.557	698,716,341.542	0.000	0.000	0.000
2050	10	669,532,810.311	19,243,400.025	72,853,862.661	688,248,571.677	0.000	0.000	0.000
2050	11	671,106,826.190	102,558,067.303	6,954,338.784	688,060,009.472	0.000	0.000	0.000
2050	12	941,385,411.229	244,879,058.096	89,925.199	774,533,409.464	0.000	0.000	0.000
2051	1	1,154,796,101.154	367,722,198.472	0.000	798,635,006.712	-26,836,043.219	0.000	0.000
2051	2	1,012,246,116.657	392,719,037.543	0.000	709,744,863.985	0.000	-93,206,930.047	0.000
2051	3	896,406,989.870	315,477,637.475	452,023.561	701,537,607.166	0.000	0.000	-42,943,296.803
2051	4	755,489,685.705	176,029,667.172	3,770,244.073	706,121,230.752	0.000	0.000	0.000
2051	5	647,381,713.938	56,009,983.247	26,545,760.677	696,999,650.764	0.000	0.000	0.000
2051	6	756,595,532.452	7,840,670.139	142,892,022.075	718,141,294.845	0.000	0.000	0.000
2051	7	985,881,862.433	97,368.236	330,111,415.643	707,183,874.734	0.000	0.000	0.000
2051	8	1,009,766,887.486	0.000	346,620,027.017	678,558,591.765	0.000	0.000	0.000
2051	9	909,565,795.084	346,369.164	244,421,074.579	701,547,912.818	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2051	10	672,693,302.824	19,286,257.326	73,266,979.518	690,953,090.033	0.000	0.000	0.000
2051	11	673,992,289.720	102,783,927.966	6,993,598.283	690,680,352.840	0.000	0.000	0.000
2051	12	944,774,942.279	245,411,079.441	90,430.275	777,390,414.093	0.000	0.000	0.000
2052	1	1,158,700,684.102	368,605,885.837	0.000	801,655,902.295	-26,836,043.219	0.000	0.000
2052	2	1,015,903,031.548	393,658,157.018	0.000	712,462,659.401	0.000	-93,206,930.047	0.000
2052	3	899,878,412.194	316,228,075.049	454,648.719	704,255,966.760	0.000	0.000	-42,943,296.803
2052	4	758,714,695.706	176,444,586.911	3,792,064.045	708,909,501.041	0.000	0.000	0.000
2052	5	650,464,937.482	56,140,687.348	26,698,800.885	699,799,130.000	0.000	0.000	0.000
2052	6	760,372,971.707	7,858,776.351	143,712,479.559	721,080,170.405	0.000	0.000	0.000
2052	7	990,715,717.233	97,590.519	331,998,403.688	710,130,519.205	0.000	0.000	0.000
2052	8	1,014,556,291.882	0.000	348,591,897.636	681,376,125.543	0.000	0.000	0.000
2052	9	913,796,993.478	347,140.118	245,804,640.125	704,394,774.711	0.000	0.000	0.000
2052	10	675,865,981.683	19,328,622.799	73,679,642.613	693,670,740.323	0.000	0.000	0.000
2052	11	676,885,667.232	103,006,639.004	7,032,786.611	693,311,830.986	0.000	0.000	0.000
2052	12	948,168,537.012	245,935,308.860	90,934.338	780,259,275.345	0.000	0.000	0.000
2053	1	1,162,605,175.816	369,478,448.169	0.000	804,687,831.678	-26,836,043.219	0.000	0.000
2053	2	1,019,557,531.455	394,585,220.889	0.000	715,190,095.437	0.000	-93,206,930.047	0.000
2053	3	903,349,354.213	316,968,674.239	457,272.438	706,983,685.869	0.000	0.000	-42,943,296.803
2053	4	761,943,382.232	176,853,905.727	3,813,869.657	711,707,063.139	0.000	0.000	0.000
2053	5	653,555,028.597	56,269,569.493	26,851,721.747	702,607,418.108	0.000	0.000	0.000
2053	6	764,158,042.296	7,876,621.683	144,532,192.225	724,027,682.996	0.000	0.000	0.000
2053	7	995,556,104.836	97,809.490	333,883,429.201	713,085,662.325	0.000	0.000	0.000
2053	8	1,019,351,418.834	0.000	350,561,455.617	684,201,694.513	0.000	0.000	0.000
2053	9	918,034,290.475	347,898.794	247,186,399.095	707,249,554.063	0.000	0.000	0.000
2053	10	679,044,776.275	19,370,291.894	74,091,712.886	696,395,795.547	0.000	0.000	0.000
2053	11	679,782,230.135	103,225,570.131	7,071,913.366	695,950,336.007	0.000	0.000	0.000
2053	12	951,561,375.487	246,450,767.774	91,437.652	783,136,151.591	0.000	0.000	0.000
2054	1	1,166,508,541.253	370,341,604.332	0.000	807,728,040.951	-26,836,043.219	0.000	0.000
2054	2	1,023,210,430.172	395,502,745.003	0.000	717,925,470.040	0.000	-93,206,930.047	0.000
2054	3	906,821,522.532	317,702,042.998	459,898.665	709,719,859.201	0.000	0.000	-42,943,296.803
2054	4	765,177,576.037	177,259,446.319	3,835,699.695	714,513,886.315	0.000	0.000	0.000
2054	5	656,653,897.699	56,397,336.766	27,004,841.436	705,425,400.248	0.000	0.000	0.000
2054	6	767,954,670.203	7,894,323.147	145,353,119.641	726,985,682.023	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar
2054	7	1,000,410,823.291	98,026.820	335,771,574.215	716,052,018.436	0.000	0.000	0.000
2054	8	1,024,161,565.360	0.000	352,534,588.449	687,038,708.207	0.000	0.000	0.000
2054	9	922,286,612.073	348,652.611	248,570,887.787	710,116,633.152	0.000	0.000	0.000
2054	10	682,236,720.418	19,411,715.890	74,504,657.283	699,133,371.297	0.000	0.000	0.000
2054	11	682,690,680.829	103,443,333.098	7,111,128.957	698,601,808.143	0.000	0.000	0.000
2054	12	954,968,490.660	246,964,418.252	91,942.364	786,029,111.574	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2005	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2005	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2005	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2005	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2005	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2005	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2005	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2006	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2006	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2006	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2006	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2006	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2006	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2006	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2007	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2007	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2007	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2007	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2007	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2007	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2007	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2008	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2008	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2008	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2008	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2008	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2008	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2008	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2009	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2009	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2009	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2009	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2009	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2009	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2009	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2010	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2010	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2016	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2016	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2016	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2016	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2016	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2016	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2016	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2016	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2017	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2017	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2017	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2017	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2017	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2017	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2017	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2018	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2018	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2018	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2018	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2018	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2018	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2018	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2019	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2019	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2019	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2019	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2019	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2019	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2019	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2020	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2020	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2020	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2020	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2020	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2020	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2020	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2021	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2021	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2027	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2027	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2027	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2027	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2027	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2027	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2027	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2027	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2028	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2028	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2028	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2028	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2028	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2028	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2028	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2029	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2029	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2029	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2029	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2029	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2029	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2029	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2030	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2030	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2030	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2030	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2030	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2030	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2030	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2031	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2031	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2031	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2031	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2031	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2031	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2031	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2032	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2032	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2038	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2038	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2038	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2038	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2038	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2038	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2038	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2038	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2039	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2039	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2039	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2039	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2039	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2039	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2039	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2039	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2039	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2039	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2039	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2039	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2040	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2040	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2040	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2040	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2040	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2040	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2040	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2040	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2040	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2040	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2040	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2040	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2041	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2041	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2041	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2041	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2041	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2041	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2041	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2041	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2041	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2041	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2041	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2041	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2042	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2042	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2042	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2042	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2042	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2042	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2042	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2043	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2043	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2049	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2049	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2049	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2049	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2049	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2049	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2049	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2049	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2049	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2049	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2049	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2049	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2050	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2050	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2050	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2050	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2050	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2050	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2050	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2050	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2050	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2050	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2050	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2050	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2051	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2051	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2051	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2051	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2051	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2051	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2051	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2051	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2051	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Apr	May	Jun	Jul	Aug	Sep	Oct
2051	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2051	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2051	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2052	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2052	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2052	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2052	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2052	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2052	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2052	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2052	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2052	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2052	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2052	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2052	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2053	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2053	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2053	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2053	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2053	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2053	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000
2053	7	0.000	0.000	0.000	38,300,889.549	0.000	0.000	0.000
2053	8	0.000	0.000	0.000	0.000	62,705,250.234	0.000	0.000
2053	9	0.000	0.000	0.000	0.000	0.000	41,367,420.053	0.000
2053	10	0.000	0.000	0.000	0.000	0.000	0.000	-32,696,042.522
2053	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2053	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2054	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2054	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2054	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2054	4	-52,314,474.761	0.000	0.000	0.000	0.000	0.000	0.000
2054	5	0.000	-54,056,699.220	0.000	0.000	0.000	0.000	0.000
2054	6	0.000	0.000	-34,161,473.077	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2013	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	0.000
2013	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2013	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	0.000
2014	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	0.000
2014	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	0.000
2014	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2014	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	0.000
2015	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	0.000
2015	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	0.000
2015	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2015	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2016	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	0.000
2016	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	0.000
2016	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	0.000
2016	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	0.000
2016	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2016	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2017	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2017	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2018	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2018	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2018	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2019	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2019	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2020	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2020	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2021	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2021	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2021	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2022	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2022	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2023	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2023	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2024	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2024	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2024	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2025	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2025	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2026	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2026	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2027	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2027	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2027	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2028	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2028	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2029	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2029	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2029	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2030	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2030	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2031	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2031	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2032	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2032	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2032	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2033	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2033	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2034	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2034	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2035	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2035	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2035	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2036	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2036	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2037	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2037	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2038	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2038	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2038	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2039	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2039	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2040	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2040	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2040	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2041	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2041	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2042	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2042	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2043	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2043	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2043	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2044	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2044	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2045	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2045	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2046	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2046	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2046	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2047	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2047	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2048	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2048	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2049	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2049	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2049	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2050	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2050	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2051	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2051	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2051	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2052	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2052	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2053	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2053	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	1	0.000	0.000	93,391,920.719	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	2	0.000	81,106,126.706	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	3	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	4	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	5	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	6	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Nov	FebD06on	JanD06on	11-Sep	DJuly10on	may13on	nov16on
2054	7	0.000	0.000	0.000	0.000	-11,694,704.199	-34,592,820.987	-9,275,907.902
2054	8	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	9	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	10	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	11	-48,348,607.839	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902
2054	12	0.000	0.000	0.000	0.000	0.000	-34,592,820.987	-9,275,907.902

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2005	1	0.000	-0.000	0.000	0.238916239	197,322,342.440	396,198,242.132	0.000
2005	2	0.000	-0.003	0.000	0.238916239	158,873,946.698	448,187,887.202	0.000
2005	3	0.000	-3,702,702.065	0.000	0.238916239	165,755,210.247	356,058,947.081	0.000
2005	4	0.000	-9,884,481.077	0.000	0.238916239	163,185,167.195	190,594,998.100	1,278,747.409
2005	5	0.000	-4,675,362.395	0.000	0.238916239	154,765,030.594	78,685,118.504	14,951,617.013
2005	6	0.000	-1,734,846.798	0.000	0.238916239	166,253,793.146	13,094,176.449	116,208,625.854
2005	7	0.000	7,575,824.305	0.000	0.238916239	182,424,204.855	0.000	377,426,232.466
2005	8	0.000	6,113,773.189	0.000	0.238916239	177,266,472.831	0.000	424,738,394.848
2005	9	0.000	25,222.299	0.000	0.238916239	181,954,726.820	0.000	260,144,670.330
2005	10	0.000	9,256,381.260	0.000	0.238916239	166,332,736.072	10,826,837.617	120,653,333.206
2005	11	0.000	-8,200,545.295	0.000	0.238916239	160,586,380.319	95,350,266.504	9,761,707.196
2005	12	0.000	-2,909,681.023	0.000	0.238916239	194,859,558.364	338,441,786.309	0.000
2006	1	0.000	-17,687,886.821	0.000	0.231567799	209,274,625.409	358,157,319.190	0.000
2006	2	0.000	-52,687.921	0.000	0.231567799	172,262,091.891	293,867,831.311	0.000
2006	3	0.000	-3,388,253.542	0.000	0.231567799	160,761,960.858	328,307,425.884	0.000
2006	4	0.000	-5,093,156.400	0.000	0.231567799	151,579,526.719	184,742,155.772	1,321,414.700
2006	5	0.000	-5,626,643.505	0.000	0.231567799	154,152,827.462	39,341,439.355	2,551,177.391
2006	6	0.000	268,911.372	0.000	0.231567799	161,716,447.771	15,237,998.908	114,964,180.583
2006	7	0.000	9,882,342.711	0.000	0.231567799	174,440,629.125	0.000	266,784,712.584
2006	8	0.000	178,865.966	0.000	0.231567799	173,124,345.605	0.000	399,590,775.997
2006	9	0.000	9,329,757.815	0.000	0.231567799	177,857,808.854	871,431.342	165,698,653.969
2006	10	0.000	2,380,053.065	0.000	0.231567799	156,312,636.290	29,953,017.207	15,229,338.693
2006	11	0.000	-1,988,446.473	0.000	0.231567799	159,032,328.595	156,794,340.239	1,394,481.890
2006	12	0.000	2,601,700.267	0.000	0.231567799	191,664,508.271	230,762,040.260	0.000
2007	1	0.000	9,326,197.151	0.000	0.224322049	207,217,828.957	263,821,530.048	0.000
2007	2	0.000	-7,053,045.342	0.000	0.224322049	168,441,988.634	479,243,220.306	0.000
2007	3	0.000	11,669,843.102	0.000	0.224322049	159,278,931.745	439,243,027.017	87,708.791
2007	4	0.000	-12,394,179.417	0.000	0.224322049	151,012,315.593	164,779,293.863	5,515,363.276
2007	5	0.000	10,549,820.805	0.000	0.224322049	151,073,382.987	62,569,007.680	27,790,777.507
2007	6	0.000	-2,760,115.912	0.000	0.224322049	153,995,495.900	4,309,255.714	197,174,993.066
2007	7	0.000	2,237,454.976	0.000	0.224322049	167,655,369.543	0.000	289,127,808.336
2007	8	0.000	6,122,883.153	0.000	0.224322049	169,711,364.745	0.000	342,314,737.116
2007	9	0.000	1,053,684.800	0.000	0.224322049	170,682,154.939	760,354.572	286,216,127.127

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2007	10	0.000	8,327,017.468	0.000	0.224322049	158,543,963.176	7,737,468.366	141,985,264.609
2007	11	0.000	-5,074,125.573	0.000	0.224322049	153,672,972.300	93,427,205.312	29,871,936.869
2007	12	0.000	1,214,355.762	0.000	0.224322049	184,100,620.548	297,118,928.095	0.000
2008	1	0.000	-558,788.458	0.000	0.217510305	199,967,170.782	370,648,940.631	0.000
2008	2	0.000	7,760,995.412	0.000	0.217510305	164,395,856.391	442,612,545.395	0.000
2008	3	0.000	10,416,197.417	0.000	0.217510305	155,033,265.253	420,171,854.061	0.000
2008	4	0.000	943,881.127	0.000	0.217510305	147,388,410.576	221,051,546.324	329,387.455
2008	5	0.000	8,098,952.929	0.000	0.217510305	143,889,698.043	53,639,114.078	12,963,124.391
2008	6	0.000	-5,699,711.706	0.000	0.217510305	149,744,135.939	12,415,548.758	128,549,444.038
2008	7	0.000	-7,063,985.351	0.000	0.217510305	161,830,246.780	16,015.779	249,276,107.542
2008	8	0.000	168,265.764	0.000	0.217510305	161,018,275.420	0.000	314,340,091.450
2008	9	0.000	-2,783,162.105	0.000	0.217510305	162,038,094.469	0.000	233,524,077.815
2008	10	0.000	-9,694,650.522	0.000	0.217510305	145,837,840.070	14,107,642.250	63,103,472.968
2008	11	0.000	5,870,990.131	0.000	0.217510305	150,778,428.848	113,533,186.881	4,093,761.899
2008	12	0.000	604,870.313	0.000	0.217510305	179,332,527.368	340,890,462.176	0.000
2009	1	0.000	6,726,602.336	0.000	0.211869584	195,494,726.254	443,641,035.357	0.000
2009	2	0.000	24,022,854.702	0.000	0.211869584	163,313,848.473	524,479,644.393	0.000
2009	3	0.000	-1,921,509.926	0.000	0.211869584	145,441,828.115	315,276,626.104	0.000
2009	4	0.000	17,671,876.784	0.000	0.211869584	146,719,648.630	161,958,842.170	711,449.460
2009	5	0.000	6,224,607.217	0.000	0.211869584	138,988,052.140	62,456,437.514	35,588,716.032
2009	6	0.000	-7,741,918.581	0.000	0.211869584	141,529,186.613	6,735,228.245	89,661,158.760
2009	7	0.000	859,498.448	0.000	0.211869584	160,021,917.765	0.000	253,907,702.688
2009	8	0.000	-12,990,333.100	0.000	0.211869584	151,853,066.262	0.000	204,106,505.531
2009	9	0.000	-2,286,158.156	0.000	0.211869584	157,419,341.056	0.000	146,371,368.795
2009	10	0.000	-1,919,626.092	0.000	0.211869584	146,838,825.993	36,139,462.198	44,377,249.227
2009	11	0.000	3,751,618.961	0.000	0.211869584	143,014,793.837	98,174,798.591	0.000
2009	12	0.000	13,536,295.363	0.000	0.211869584	176,475,367.474	228,805,737.851	0.000
2010	1	0.000	11,388,768.374	0.000	0.185533689	169,450,188.002	428,888,643.245	0.000
2010	2	0.000	26,641,997.127	0.000	0.185533689	139,545,315.645	444,044,666.789	0.000
2010	3	0.000	7,946,807.675	0.000	0.185533689	124,374,916.865	330,536,369.066	0.000
2010	4	0.000	8,084,324.374	0.000	0.185533689	127,321,503.916	112,075,125.778	11,030,249.876
2010	5	0.000	-5,362,309.641	0.000	0.185533689	118,504,307.067	26,267,496.576	25,541,758.919
2010	6	0.000	-7,330.329	0.000	0.185533689	125,838,146.734	5,373,397.250	235,010,845.744

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2010	7	0.000	-3,180,329.906	0.000	0.185533689	133,639,609.453	0.000	422,494,889.089
2010	8	0.000	3,965,529.822	0.000	0.185533689	138,460,222.829	0.000	475,921,388.630
2010	9	0.000	283,541.901	0.000	0.185533689	137,774,657.298	0.000	290,251,637.615
2010	10	0.000	5,525,507.693	0.000	0.185533689	123,931,865.525	12,333,637.029	84,467,690.654
2010	11	0.000	-11,869,323.168	0.000	0.185533689	120,908,239.983	95,309,198.698	7,562,064.779
2010	12	0.000	1,723,524.556	0.000	0.185533689	150,359,634.510	311,551,881.527	0.000
2011	1	0.000	-4,127,094.024	0.000	0.176085491	156,712,922.155	459,177,507.045	0.000
2011	2	0.000	10,475,041.405	0.000	0.176085491	133,248,318.042	502,019,737.783	0.000
2011	3	0.000	-7,315,258.854	0.000	0.176085491	116,002,867.767	335,019,257.695	0.000
2011	4	0.000	1,510,542.814	0.000	0.176085491	112,243,955.259	196,680,701.722	2,735,028.555
2011	5	0.000	61,177.663	0.000	0.176085491	119,317,530.365	60,617,430.051	22,302,615.284
2011	6	0.000	7,820,479.609	0.000	0.176085491	124,987,823.721	8,488,852.829	202,194,628.974
2011	7	0.000	-10,628,945.966	0.000	0.176085491	127,703,936.537	0.000	374,796,005.230
2011	8	0.000	-3,643,676.056	0.000	0.176085491	133,264,337.184	0.000	538,701,521.529
2011	9	0.000	-8,915,649.916	0.000	0.176085491	127,106,094.503	1,303,753.720	252,978,635.197
2011	10	0.000	-2,172,351.806	0.000	0.176085491	119,185,571.182	15,582,178.356	33,907,993.642
2011	11	0.000	-3,536,360.022	0.000	0.176085491	115,208,526.547	87,837,491.679	1,047,981.671
2011	12	0.000	7,649,132.861	0.000	0.176085491	145,520,074.942	208,880,508.899	0.000
2012	1	0.000	7,662,048.971	0.000	0.171865896	158,020,983.209	314,148,056.777	0.000
2012	2	0.000	-8,119,749.606	0.000	0.171865896	124,259,072.859	359,053,249.890	0.000
2012	3	0.000	-5,240,229.502	0.000	0.171865896	119,297,058.865	252,783,760.522	8,616,743.893
2012	4	0.000	-4,311,161.192	0.000	0.171865896	119,667,574.167	66,757,292.685	27,788,000.611
2012	5	0.000	-20,131,337.003	0.000	0.171865896	112,008,565.634	50,590,878.910	35,625,042.611
2012	6	0.000	-6,229,021.058	0.000	0.171865896	119,813,675.925	1,686,267.407	202,284,366.236
2012	7	0.000	-3,481,599.069	0.000	0.171865896	128,126,712.637	158,875.924	487,446,668.306
2012	8	0.000	-7,776,775.209	0.000	0.171865896	130,430,771.855	0.000	425,282,205.316
2012	9	0.000	6,136,700.021	0.000	0.171865896	132,171,292.128	1,091,284.182	208,872,741.680
2012	10	0.000	-16,099,724.824	0.000	0.171865896	114,692,435.120	36,177,637.409	30,760,347.781
2012	11	0.000	-10,285,556.724	0.000	0.171865896	117,219,501.800	134,034,653.089	3,010,184.238
2012	12	0.000	-8,694,405.006	0.000	0.171865896	136,986,138.369	226,837,272.455	0.000
2013	1	0.000	-9,760,870.024	0.000	0.156143446	138,453,725.895	356,352,703.817	0.000
2013	2	0.000	-12,266,313.319	0.000	0.156143446	112,079,754.644	410,414,664.245	0.000
2013	3	0.000	2,780,166.544	0.000	0.156143446	108,888,930.118	367,090,776.677	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2013	4	0.000	11,674,199.975	0.000	0.156143446	107,570,870.722	249,091,916.270	0.000
2013	5	0.000	-996,622.862	0.000	0.156143446	96,374,987.529	63,917,350.437	28,519,912.326
2013	6	0.000	11,100,739.687	0.000	0.156143446	104,225,952.893	6,576,515.014	151,933,825.019
2013	7	0.000	-11,356,848.300	0.000	0.156143446	106,543,412.082	0.000	308,192,582.520
2013	8	0.000	3,218,568.677	0.000	0.156143446	112,502,294.037	0.000	243,704,834.239
2013	9	0.000	-4,108,535.477	0.000	0.156143446	111,329,109.792	305,896.010	239,194,770.933
2013	10	0.000	4,406,426.110	0.000	0.156143446	100,106,076.066	10,262,387.977	86,739,442.910
2013	11	0.000	2,063,725.313	0.000	0.156143446	100,254,740.998	127,401,235.681	7,768,178.525
2013	12	0.000	4,340,470.856	0.000	0.156143446	120,379,509.042	319,189,033.376	0.000
2014	1	0.000	3,733,971.703	0.000	0.149740852	133,047,171.133	474,757,736.465	0.000
2014	2	0.000	14,760,878.153	0.000	0.149740852	105,404,287.431	582,551,553.932	0.000
2014	3	0.000	2,500,268.136	0.000	0.149740852	98,529,743.558	505,957,287.268	0.000
2014	4	0.000	-4,555,140.575	0.000	0.149740852	94,296,628.360	260,748,726.612	0.000
2014	5	0.000	3,456,306.020	0.000	0.149740852	96,225,467.110	63,859,891.460	20,239,031.223
2014	6	0.000	-2,862,101.536	0.000	0.149740852	97,772,539.773	12,971,182.072	155,892,993.850
2014	7	0.000	-2,084,497.351	0.000	0.149740852	105,135,580.829	0.000	292,349,129.204
2014	8	0.000	-17,193,097.075	0.000	0.149740852	103,905,295.288	0.000	186,513,261.285
2014	9	0.000	-8,702,192.422	0.000	0.149740852	106,895,001.291	830,795.338	233,785,266.328
2014	10	0.000	-7,839,553.211	0.000	0.149740852	94,282,324.283	23,062,615.685	24,299,114.115
2014	11	0.000	3,188,622.680	0.000	0.149740852	95,551,005.335	140,242,509.569	466,407.643
2014	12	0.000	-6,091,664.011	0.000	0.149740852	116,381,257.045	333,349,395.985	0.000
2015	1	-34,248,252.641	2,713,418.356	0.000	0.138003518	113,843,215.744	427,123,905.253	0.000
2015	2	-34,248,252.641	-4,115,156.828	0.000	0.138003518	88,557,124.046	513,285,056.926	0.000
2015	3	-34,248,252.641	-4,891,477.316	0.000	0.138003518	83,914,451.711	532,794,314.620	0.000
2015	4	-34,248,252.641	-9,873,278.542	0.000	0.138003518	83,942,149.434	218,527,676.500	0.000
2015	5	-34,248,252.641	2,487,590.450	0.000	0.138003518	82,036,252.169	58,065,185.880	39,862,622.630
2015	6	-34,248,252.641	-3,132,934.070	0.000	0.138003518	83,887,757.496	5,856,784.432	164,500,833.154
2015	7	-34,248,252.641	177,416.635	0.000	0.138003518	92,972,939.004	41,864.068	215,825,895.489
2015	8	-34,248,252.641	2,370,122.550	0.000	0.138003518	92,813,673.886	0.000	303,511,475.235
2015	9	-34,248,252.641	-1,810,821.797	0.000	0.138003518	94,348,565.036	0.000	237,416,392.421
2015	10	-34,248,252.641	-4,461,891.446	0.000	0.138003518	82,699,842.553	11,176,951.027	78,303,630.140
2015	11	-34,248,252.641	9,528,040.029	0.000	0.138003518	83,513,364.583	72,421,628.796	2,072,272.880
2015	12	-34,248,252.641	-4,138,969.830	0.000	0.138003518	104,840,503.783	202,384,363.390	0.000

Indiana Michigan Power Company - Indiana
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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2016	1	-34,248,252.641	-8,816,102.319	0.000	0.132583519	106,635,545.072	308,889,753.879	0.000
2016	2	-34,248,252.641	-3,662,850.918	0.000	0.132583519	85,513,663.127	429,069,329.639	0.000
2016	3	-34,248,252.641	-8,833,481.387	0.000	0.132583519	79,408,268.451	293,464,505.205	0.000
2016	4	-34,248,252.641	-674,756.172	0.000	0.132583519	80,402,492.814	157,240,531.211	0.000
2016	5	-34,248,252.641	2,562,643.166	0.000	0.132583519	76,233,636.833	63,608,617.749	2,373,644.147
2016	6	-34,248,252.641	5,413,791.516	0.000	0.132583519	82,760,264.861	11,272,134.421	172,397,192.884
2016	7	-34,248,252.641	2,894,156.556	0.000	0.132583519	87,969,635.986	0.000	289,325,685.453
2016	8	-34,248,252.641	13,358,312.160	0.000	0.132583519	90,891,945.367	0.000	428,226,377.390
2016	9	-34,248,252.641	-396,090.889	0.000	0.132583519	90,113,480.093	0.000	322,035,163.097
2016	10	-34,248,252.641	7,743,895.199	0.000	0.132583519	81,058,960.875	3,827,959.540	125,025,392.976
2016	11	-34,248,252.641	7,341,100.535	0.000	0.132583519	78,085,554.905	62,624,387.643	20,985,155.555
2016	12	-34,248,252.641	-6,174,640.534	0.000	0.132583519	96,170,630.492	279,085,372.130	837,842.107
2017	1	-34,248,252.641	-4,659,981.692	0.000	0.128532799	102,021,043.889	420,792,866.160	0.000
2017	2	-34,248,252.641	-9,679,872.733	0.000	0.128532799	78,966,774.026	319,760,645.831	0.000
2017	3	-34,248,252.641	4,144,304.970	0.000	0.128532799	75,291,081.804	244,234,355.245	0.000
2017	4	-34,248,252.641	518,104.582	0.000	0.128532799	73,920,320.922	172,298,155.940	5,293,483.405
2017	5	-34,248,252.641	-625,568.963	0.000	0.128532799	70,435,632.441	44,914,358.682	34,973,561.694
2017	6	-34,248,252.641	3,015,751.250	0.000	0.128532799	76,601,788.969	8,815,635.109	133,882,909.828
2017	7	-34,248,252.641	5,535,136.672	0.000	0.128532799	84,495,312.136	0.000	293,349,441.992
2017	8	-34,248,252.641	-2,497,170.826	0.000	0.128532799	84,485,292.067	0.000	274,147,425.121
2017	9	-34,248,252.641	12,198,689.558	0.000	0.128532799	86,459,818.553	0.000	131,461,662.636
2017	10	-34,248,252.641	2,643,649.227	0.000	0.128532799	75,921,994.413	2,061,487.297	138,346,519.508
2017	11	-34,248,252.641	10,104,269.168	0.000	0.128532799	74,155,628.136	122,489,417.742	14,868,608.237
2017	12	-34,248,252.641	-3,944,472.168	0.000	0.128532799	91,997,459.906	261,830,955.481	0.000
2018	1	-34,248,252.641	1,873,049.432	0.000	0.125895237	99,838,592.436	532,698,702.912	0.000
2018	2	-34,248,252.641	-19,677,039.938	0.000	0.125895237	75,205,773.500	441,924,609.859	0.000
2018	3	-34,248,252.641	-4,164,675.255	0.000	0.125895237	72,426,380.260	304,743,499.806	0.000
2018	4	-34,248,252.641	6,383,223.717	0.000	0.125895237	74,083,399.879	268,823,809.072	533,766.444
2018	5	-34,248,252.641	3,976,746.118	0.000	0.125895237	70,434,714.651	92,261,867.206	29,613,024.517
2018	6	-34,248,252.641	2,548,306.556	0.000	0.125895237	75,429,763.535	975,010.793	235,156,868.889
2018	7	-34,248,252.641	8,634,375.638	0.000	0.125895237	81,047,499.171	0.000	376,636,809.432
2018	8	-34,248,252.641	8,604,730.981	0.000	0.125895237	83,904,278.349	0.000	315,935,041.050
2018	9	-34,248,252.641	-24,985.633	0.000	0.125895237	82,607,512.763	0.000	324,449,219.748

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2018	10	-34,248,252.641	1,904,867.879	0.000	0.125895237	72,500,782.689	20,201,429.819	161,726,417.397
2018	11	-34,248,252.641	-894,009.563	0.000	0.125895237	72,043,094.888	156,764,152.032	22,786,032.954
2018	12	-34,248,252.641	153,793.182	0.000	0.125895237	88,338,013.358	311,142,715.933	0.000
2019	1	-34,248,252.641	1,889,367.539	0.000	0.121721143	95,555,636.115	317,591,129.033	0.000
2019	2	-34,248,252.641	-19,035,050.193	0.000	0.121721143	72,449,470.852	450,079,476.729	0.000
2019	3	-34,248,252.641	0.000	0.000	0.121721143	69,732,591.897	361,414,603.839	405,084.242
2019	4	-34,248,252.641	0.000	0.000	0.121721143	68,732,687.195	201,620,299.700	3,378,401.232
2019	5	-34,248,252.641	0.000	0.000	0.121721143	66,977,841.043	64,139,988.802	23,783,748.294
2019	6	-34,248,252.641	-0.000	0.000	0.121721143	71,419,223.437	8,976,763.745	128,001,884.493
2019	7	-34,248,252.641	-0.000	0.000	0.121721143	77,203,893.857	111,444.795	295,644,164.845
2019	8	-34,248,252.641	-0.000	0.000	0.121721143	78,294,156.127	0.000	310,342,745.798
2019	9	-34,248,252.641	-0.000	0.000	0.121721143	78,712,101.718	396,156.556	218,766,247.631
2019	10	-34,248,252.641	0.000	0.000	0.121721143	68,962,386.479	22,049,433.268	65,555,161.892
2019	11	-34,248,252.641	0.000	0.000	0.121721143	67,538,110.919	117,453,974.214	6,255,213.448
2019	12	-34,248,252.641	-0.000	0.000	0.121721143	84,249,525.691	280,107,531.545	80,807.673
2020	1	-34,248,252.641	0.000	0.000	0.114635141	88,944,709.015	415,774,337.708	0.000
2020	2	-34,248,252.641	0.000	0.000	0.114635141	69,618,581.664	443,869,086.999	0.000
2020	3	-34,248,252.641	-0.000	0.000	0.114635141	64,900,066.767	356,440,540.660	401,350.917
2020	4	-34,248,252.641	0.000	0.000	0.114635141	63,968,127.178	198,829,797.668	3,347,012.589
2020	5	-34,248,252.641	-0.000	0.000	0.114635141	62,341,169.303	63,249,916.950	23,561,938.666
2020	6	-34,248,252.641	-0.000	0.000	0.114635141	66,517,706.789	8,851,801.874	126,805,630.799
2020	7	-34,248,252.641	0.000	0.000	0.114635141	71,991,307.597	109,896.559	292,893,494.002
2020	8	-34,248,252.641	0.000	0.000	0.114635141	73,046,504.466	0.000	307,483,300.048
2020	9	-34,248,252.641	-0.000	0.000	0.114635141	73,408,944.796	390,723.688	216,778,533.768
2020	10	-34,248,252.641	-0.000	0.000	0.114635141	64,221,438.025	21,751,113.242	64,971,498.324
2020	11	-34,248,252.641	0.000	0.000	0.114635141	62,866,315.766	115,891,295.156	6,200,777.424
2020	12	-34,248,252.641	0.000	0.000	0.114635141	78,440,254.752	276,123,178.008	80,047.146
2021	1	-34,248,252.641	0.000	0.000	0.110571403	84,937,999.389	410,564,377.113	0.000
2021	2	-34,248,252.641	-0.000	0.000	0.110571403	66,405,185.054	438,349,055.163	0.000
2021	3	-34,248,252.641	-0.000	0.000	0.110571403	61,876,323.576	352,042,846.607	398,361.455
2021	4	-34,248,252.641	0.000	0.000	0.110571403	60,990,803.043	196,391,820.058	3,322,369.939
2021	5	-34,248,252.641	0.000	0.000	0.110571403	59,450,412.429	62,480,502.653	23,391,065.399
2021	6	-34,248,252.641	-0.000	0.000	0.110571403	63,481,369.125	8,745,429.757	125,905,982.531

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2021	7	-34,248,252.641	0.000	0.000	0.110571403	68,789,169.754	108,594.598	290,866,999.168
2021	8	-34,248,252.641	-0.000	0.000	0.110571403	69,836,395.354	0.000	305,408,715.038
2021	9	-34,248,252.641	-0.000	0.000	0.110571403	70,162,313.317	386,220.938	215,353,859.626
2021	10	-34,248,252.641	-0.000	0.000	0.110571403	61,297,870.686	21,504,443.518	64,556,653.039
2021	11	-34,248,252.641	0.000	0.000	0.110571403	59,977,738.963	114,592,685.960	6,162,136.339
2021	12	-34,248,252.641	0.000	0.000	0.110571403	75,025,454.612	273,721,304.309	79,712.615
2022	1	-34,248,252.641	0.000	0.000	0.108255473	82,616,367.504	407,570,990.600	0.000
2022	2	-34,248,252.641	-0.000	0.000	0.108255473	64,549,299.177	435,227,737.832	0.000
2022	3	-34,248,252.641	0.000	0.000	0.108255473	60,137,120.113	349,585,125.400	397,444.959
2022	4	-34,248,252.641	0.000	0.000	0.108255473	59,289,820.876	195,055,949.729	3,315,234.244
2022	5	-34,248,252.641	-0.000	0.000	0.108255473	57,804,636.004	62,059,994.622	23,342,347.738
2022	6	-34,248,252.641	0.000	0.000	0.108255473	61,755,671.830	8,687,049.926	125,647,867.813
2022	7	-34,248,252.641	0.000	0.000	0.108255473	66,969,101.976	107,872.983	290,275,047.808
2022	8	-34,248,252.641	0.000	0.000	0.108255473	68,007,195.999	0.000	304,782,994.474
2022	9	-34,248,252.641	0.000	0.000	0.108255473	68,304,092.690	383,633.737	214,897,701.059
2022	10	-34,248,252.641	0.000	0.000	0.108255473	59,608,844.037	21,357,936.071	64,412,597.730
2022	11	-34,248,252.641	-0.000	0.000	0.108255473	58,294,413.039	113,798,241.979	6,147,641.564
2022	12	-34,248,252.641	0.000	0.000	0.108255473	72,950,751.939	271,785,695.212	79,514.383
2023	1	-34,248,252.641	-0.000	0.000	0.106719455	80,981,910.008	404,542,708.393	0.000
2023	2	-34,248,252.641	-0.000	0.000	0.106719455	63,226,787.714	431,947,892.140	0.000
2023	3	-34,248,252.641	0.000	0.000	0.106719455	58,888,428.431	346,934,163.656	396,631.652
2023	4	-34,248,252.641	0.000	0.000	0.106719455	58,064,492.604	193,578,078.061	3,308,339.335
2023	5	-34,248,252.641	0.000	0.000	0.106719455	56,621,912.613	61,594,122.717	23,294,361.714
2023	6	-34,248,252.641	-0.000	0.000	0.106719455	60,521,592.631	8,622,107.405	125,390,821.096
2023	7	-34,248,252.641	0.000	0.000	0.106719455	65,677,490.865	107,071.927	289,684,332.216
2023	8	-34,248,252.641	0.000	0.000	0.106719455	66,713,834.418	0.000	304,169,120.160
2023	9	-34,248,252.641	0.000	0.000	0.106719455	66,991,044.110	380,829.483	214,473,743.369
2023	10	-34,248,252.641	-0.000	0.000	0.106719455	58,413,068.716	21,204,918.186	64,291,675.701
2023	11	-34,248,252.641	0.000	0.000	0.106719455	57,106,723.618	112,998,775.154	6,136,664.632
2023	12	-34,248,252.641	0.000	0.000	0.106719455	71,476,852.818	269,773,724.315	79,346.542
2024	1	-34,248,252.641	-0.000	0.000	0.105486318	79,650,255.192	401,546,245.114	0.000
2024	2	-34,248,252.641	-0.000	0.000	0.105486318	62,158,945.365	428,806,342.844	0.000
2024	3	-34,248,252.641	-0.000	0.000	0.105486318	57,884,613.006	344,417,012.625	396,179.557

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2024	4	-34,248,252.641	0.000	0.000	0.105486318	57,079,109.223	192,160,794.802	3,304,405.845
2024	5	-34,248,252.641	0.000	0.000	0.105486318	55,668,618.275	61,139,714.815	23,265,857.876
2024	6	-34,248,252.641	-0.000	0.000	0.105486318	59,526,838.574	8,558,138.857	125,236,214.146
2024	7	-34,248,252.641	-0.000	0.000	0.105486318	64,635,474.162	106,273.062	289,320,524.721
2024	8	-34,248,252.641	0.000	0.000	0.105486318	65,671,184.818	0.000	303,802,686.316
2024	9	-34,248,252.641	0.000	0.000	0.105486318	65,929,834.285	378,034.498	214,220,652.905
2024	10	-34,248,252.641	0.000	0.000	0.105486318	57,439,059.383	21,050,021.013	64,217,032.200
2024	11	-34,248,252.641	0.000	0.000	0.105486318	56,132,959.511	112,179,035.773	6,129,747.038
2024	12	-34,248,252.641	-0.000	0.000	0.105486318	70,279,306.443	267,801,829.754	79,254.168
2025	1	-34,248,252.641	-0.000	0.000	0.104759201	78,762,663.779	398,671,272.035	0.000
2025	2	-34,248,252.641	0.000	0.000	0.104759201	61,440,566.930	425,767,938.809	0.000
2025	3	-34,248,252.641	-0.000	0.000	0.104759201	57,211,485.286	342,010,982.102	396,141.140
2025	4	-34,248,252.641	0.000	0.000	0.104759201	56,429,152.246	190,850,645.195	3,304,474.269
2025	5	-34,248,252.641	0.000	0.000	0.104759201	55,048,043.956	60,729,055.935	23,267,765.484
2025	6	-34,248,252.641	-0.000	0.000	0.104759201	58,891,213.112	8,502,008.729	125,258,335.582
2025	7	-34,248,252.641	-0.000	0.000	0.104759201	63,980,891.830	105,588.552	289,396,154.809
2025	8	-34,248,252.641	0.000	0.000	0.104759201	65,013,663.935	0.000	303,874,873.886
2025	9	-34,248,252.641	0.000	0.000	0.104759201	65,256,251.965	375,581.216	214,271,246.090
2025	10	-34,248,252.641	0.000	0.000	0.104759201	56,809,453.335	20,912,680.177	64,230,764.113
2025	11	-34,248,252.641	0.000	0.000	0.104759201	55,493,950.026	111,440,367.635	6,130,775.571
2025	12	-34,248,252.641	0.000	0.000	0.104759201	69,494,461.947	266,030,095.030	79,264.324
2026	1	-34,248,252.641	0.000	0.000	0.104190945	78,070,831.596	396,139,909.963	0.000
2026	2	-34,248,252.641	-0.000	0.000	0.104190945	60,878,992.016	423,052,720.827	0.000
2026	3	-34,248,252.641	-0.000	0.000	0.104190945	56,682,978.027	339,824,157.410	396,498.443
2026	4	-34,248,252.641	0.000	0.000	0.104190945	55,915,048.617	189,627,318.838	3,307,349.727
2026	5	-34,248,252.641	0.000	0.000	0.104190945	54,556,412.339	60,339,992.842	23,287,556.398
2026	6	-34,248,252.641	-0.000	0.000	0.104190945	58,383,379.394	8,446,976.965	125,357,264.271
2026	7	-34,248,252.641	-0.000	0.000	0.104190945	63,455,351.953	104,900.751	289,615,821.806
2026	8	-34,248,252.641	-0.000	0.000	0.104190945	64,487,855.345	0.000	304,111,345.435
2026	9	-34,248,252.641	0.000	0.000	0.104190945	64,716,676.928	373,152.140	214,443,249.956
2026	10	-34,248,252.641	-0.000	0.000	0.104190945	56,303,337.656	20,778,087.272	64,284,546.274
2026	11	-34,248,252.641	0.000	0.000	0.104190945	54,983,330.219	110,735,805.440	6,136,454.954
2026	12	-34,248,252.641	-0.000	0.000	0.104190945	68,885,497.866	264,459,009.506	79,363.730

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2027	1	-34,248,252.641	0.000	0.000	0.103694891	77,507,811.531	393,864,084.819	0.000
2027	2	-34,248,252.641	-0.000	0.000	0.103694891	60,428,023.834	420,630,760.281	0.000
2027	3	-34,248,252.641	-0.000	0.000	0.103694891	56,263,931.105	337,896,455.452	397,300.054
2027	4	-34,248,252.641	0.000	0.000	0.103694891	55,509,919.838	188,544,272.650	3,314,015.168
2027	5	-34,248,252.641	0.000	0.000	0.103694891	54,173,065.612	59,996,652.594	23,335,166.850
2027	6	-34,248,252.641	-0.000	0.000	0.103694891	57,992,641.388	8,399,198.419	125,618,821.806
2027	7	-34,248,252.641	0.000	0.000	0.103694891	63,051,883.800	104,311.258	290,230,838.533
2027	8	-34,248,252.641	0.000	0.000	0.103694891	64,082,818.656	0.000	304,772,104.066
2027	9	-34,248,252.641	-0.000	0.000	0.103694891	64,305,046.847	371,123.895	214,931,620.186
2027	10	-34,248,252.641	0.000	0.000	0.103694891	55,919,306.382	20,666,344.441	64,433,536.196
2027	11	-34,248,252.641	0.000	0.000	0.103694891	54,592,376.283	110,147,516.253	6,150,984.325
2027	12	-34,248,252.641	-0.000	0.000	0.103694891	68,393,552.531	263,029,144.839	79,546.046
2028	1	-34,248,252.641	0.000	0.000	0.103195472	77,007,685.972	391,814,305.608	0.000
2028	2	-34,248,252.641	0.000	0.000	0.103195472	60,033,314.488	418,452,891.416	0.000
2028	3	-34,248,252.641	-0.000	0.000	0.103195472	55,899,530.848	336,153,821.909	398,551.807
2028	4	-34,248,252.641	0.000	0.000	0.103195472	55,161,502.419	187,576,753.303	3,324,470.503
2028	5	-34,248,252.641	-0.000	0.000	0.103195472	53,844,623.345	59,687,448.145	23,408,784.437
2028	6	-34,248,252.641	-0.000	0.000	0.103195472	57,657,138.208	8,355,910.013	126,014,681.936
2028	7	-34,248,252.641	0.000	0.000	0.103195472	62,701,362.187	103,773.177	291,143,806.120
2028	8	-34,248,252.641	0.000	0.000	0.103195472	63,726,765.053	0.000	305,729,119.046
2028	9	-34,248,252.641	0.000	0.000	0.103195472	63,938,449.765	369,204.310	215,605,277.821
2028	10	-34,248,252.641	0.000	0.000	0.103195472	55,577,822.530	20,559,289.603	64,635,096.742
2028	11	-34,248,252.641	0.000	0.000	0.103195472	54,241,316.373	109,576,000.413	6,170,177.149
2028	12	-34,248,252.641	0.000	0.000	0.103195472	67,962,472.718	261,733,816.080	79,810.620
2029	1	-34,248,252.641	0.000	0.000	0.102740906	76,791,671.834	389,754,552.182	0.000
2029	2	-34,248,252.641	-0.000	0.000	0.102740906	59,883,754.181	416,282,539.587	0.000
2029	3	-34,248,252.641	0.000	0.000	0.102740906	55,772,388.106	334,433,708.799	400,181.765
2029	4	-34,248,252.641	0.000	0.000	0.102740906	55,047,233.656	186,631,738.427	3,338,256.331
2029	5	-34,248,252.641	0.000	0.000	0.102740906	53,739,019.602	59,391,433.022	23,507,206.799
2029	6	-34,248,252.641	-0.000	0.000	0.102740906	57,540,990.256	8,315,118.412	126,551,799.201
2029	7	-34,248,252.641	0.000	0.000	0.102740906	62,568,186.607	103,274.317	292,400,864.705
2029	8	-34,248,252.641	-0.000	0.000	0.102740906	63,588,063.155	0.000	307,065,534.745
2029	9	-34,248,252.641	0.000	0.000	0.102740906	63,808,156.719	367,484.266	216,559,599.302

Indiana Michigan Power Company - Indiana
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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2029	10	-34,248,252.641	0.000	0.000	0.102740906	55,481,285.410	20,465,053.310	64,924,640.200
2029	11	-34,248,252.641	0.000	0.000	0.102740906	54,150,407.158	109,082,686.673	6,198,180.659
2029	12	-34,248,252.641	-0.000	0.000	0.102740906	67,819,721.887	260,536,168.811	80,167.967
2030	1	-34,248,252.641	-0.000	0.000	0.098592937	73,530,086.960	387,901,391.931	0.000
2030	2	-34,248,252.641	-0.000	0.000	0.098592937	57,335,422.726	414,303,146.094	0.000
2030	3	-34,248,252.641	0.000	0.000	0.098592937	53,404,030.558	332,843,094.085	402,068.661
2030	4	-34,248,252.641	0.000	0.000	0.098592937	52,724,460.224	185,743,353.029	3,353,972.675
2030	5	-34,248,252.641	0.000	0.000	0.098592937	51,492,358.123	59,108,643.202	23,617,767.953
2030	6	-34,248,252.641	0.000	0.000	0.098592937	55,163,886.661	8,275,533.853	127,146,732.044
2030	7	-34,248,252.641	0.000	0.000	0.098592937	59,999,919.298	102,783.017	293,775,584.324
2030	8	-34,248,252.641	-0.000	0.000	0.098592937	60,974,024.020	0.000	308,509,956.306
2030	9	-34,248,252.641	0.000	0.000	0.098592937	61,169,169.152	365,740.694	217,579,128.059
2030	10	-34,248,252.641	0.000	0.000	0.098592937	53,155,027.321	20,368,098.584	65,230,525.550
2030	11	-34,248,252.641	0.000	0.000	0.098592937	51,853,537.878	108,566,704.082	6,227,404.988
2030	12	-34,248,252.641	0.000	0.000	0.098592937	64,946,961.147	259,355,719.190	80,558.608
2031	1	-34,248,252.641	0.000	0.000	0.094797299	70,616,013.011	386,154,326.869	0.000
2031	2	-34,248,252.641	0.000	0.000	0.094797299	55,066,072.115	412,447,856.223	0.000
2031	3	-34,248,252.641	0.000	0.000	0.094797299	51,298,584.982	331,361,845.834	404,517.209
2031	4	-34,248,252.641	0.000	0.000	0.094797299	50,660,973.734	184,922,075.956	3,374,471.295
2031	5	-34,248,252.641	0.000	0.000	0.094797299	49,496,714.205	58,848,847.990	23,762,569.866
2031	6	-34,248,252.641	0.000	0.000	0.094797299	53,049,481.117	8,239,379.951	127,928,711.525
2031	7	-34,248,252.641	0.000	0.000	0.094797299	57,709,412.045	102,336.563	295,587,553.434
2031	8	-34,248,252.641	0.000	0.000	0.094797299	58,640,583.611	0.000	310,418,777.803
2031	9	-34,248,252.641	0.000	0.000	0.094797299	58,817,183.650	364,172.633	218,930,128.657
2031	10	-34,248,252.641	0.000	0.000	0.094797299	51,091,375.898	20,281,404.743	65,637,113.198
2031	11	-34,248,252.641	0.000	0.000	0.094797299	49,820,036.627	108,108,323.108	6,266,388.820
2031	12	-34,248,252.641	0.000	0.000	0.094797299	62,379,654.720	258,204,757.890	81,048.991
2032	1	-34,248,252.641	0.000	0.000	0.09150158	68,151,816.539	384,275,520.134	0.000
2032	2	-34,248,252.641	0.000	0.000	0.09150158	53,152,899.564	410,443,280.014	0.000
2032	3	-34,248,252.641	0.000	0.000	0.09150158	49,525,622.226	329,753,523.338	406,865.764
2032	4	-34,248,252.641	0.000	0.000	0.09150158	48,922,525.886	184,023,863.268	3,394,059.402
2032	5	-34,248,252.641	-0.000	0.000	0.09150158	47,814,256.970	58,562,952.382	23,900,547.235
2032	6	-34,248,252.641	-0.000	0.000	0.09150158	51,262,749.786	8,199,355.618	128,671,924.798

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2032	7	-34,248,252.641	-0.000	0.000	0.09150158	55,767,393.068	101,839.581	297,305,958.501
2032	8	-34,248,252.641	0.000	0.000	0.09150158	56,658,773.136	0.000	312,224,431.330
2032	9	-34,248,252.641	-0.000	0.000	0.09150158	56,820,650.925	362,404.597	220,204,191.231
2032	10	-34,248,252.641	0.000	0.000	0.09150158	49,344,671.352	20,182,907.299	66,019,111.336
2032	11	-34,248,252.641	0.000	0.000	0.09150158	48,099,294.439	107,583,009.027	6,302,853.718
2032	12	-34,248,252.641	0.000	0.000	0.09150158	60,211,961.102	256,964,635.691	81,524.410
2033	1	-34,248,252.641	0.000	0.000	0.088806581	66,201,629.907	382,511,054.307	0.000
2033	2	-34,248,252.641	0.000	0.000	0.088806581	51,645,005.790	408,552,882.979	0.000
2033	3	-34,248,252.641	0.000	0.000	0.088806581	48,130,686.730	328,229,899.892	409,249.186
2033	4	-34,248,252.641	0.000	0.000	0.088806581	47,555,771.521	183,171,710.468	3,413,908.913
2033	5	-34,248,252.641	0.000	0.000	0.088806581	46,491,481.686	58,291,165.910	24,040,091.675
2033	6	-34,248,252.641	-0.000	0.000	0.088806581	49,854,936.536	8,161,215.068	129,421,887.816
2033	7	-34,248,252.641	-0.000	0.000	0.088806581	54,231,874.308	101,364.715	299,035,726.638
2033	8	-34,248,252.641	0.000	0.000	0.088806581	55,088,911.765	0.000	314,037,387.093
2033	9	-34,248,252.641	0.000	0.000	0.088806581	55,240,247.840	360,705.306	221,480,173.241
2033	10	-34,248,252.641	-0.000	0.000	0.088806581	47,967,953.190	20,088,006.847	66,400,898.275
2033	11	-34,248,252.641	0.000	0.000	0.088806581	46,743,924.864	107,075,712.409	6,339,229.174
2033	12	-34,248,252.641	-0.000	0.000	0.088806581	58,486,914.322	255,696,364.245	81,980.329
2034	1	-34,248,252.641	0.000	0.000	0.086778279	64,799,664.905	380,663,396.537	0.000
2034	2	-34,248,252.641	0.000	0.000	0.086778279	50,569,155.536	406,577,006.018	0.000
2034	3	-34,248,252.641	0.000	0.000	0.086778279	47,139,476.612	326,640,653.385	411,530.605
2034	4	-34,248,252.641	0.000	0.000	0.086778279	46,586,993.537	182,284,208.308	3,432,932.813
2034	5	-34,248,252.641	0.000	0.000	0.086778279	45,555,186.613	58,008,636.395	24,174,037.443
2034	6	-34,248,252.641	-0.000	0.000	0.086778279	48,856,377.145	8,121,657.572	130,143,070.674
2034	7	-34,248,252.641	0.000	0.000	0.086778279	53,137,482.182	100,873.573	300,702,724.747
2034	8	-34,248,252.641	-0.000	0.000	0.086778279	53,967,547.113	0.000	315,790,247.412
2034	9	-34,248,252.641	0.000	0.000	0.086778279	54,113,517.346	358,962.799	222,718,246.938
2034	10	-34,248,252.641	0.000	0.000	0.086778279	46,994,205.226	19,991,183.210	66,772,841.293
2034	11	-34,248,252.641	0.000	0.000	0.086778279	45,786,743.997	106,560,938.131	6,374,821.422
2034	12	-34,248,252.641	0.000	0.000	0.086778279	57,284,027.533	254,595,392.947	82,474.119
2035	1	-34,248,252.641	0.000	0.000	0.08489977	63,560,866.410	379,233,887.451	0.000
2035	2	-34,248,252.641	0.000	0.000	0.08489977	49,626,317.589	405,058,868.511	0.000
2035	3	-34,248,252.641	0.000	0.000	0.08489977	46,275,105.836	325,428,250.971	414,072.718

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2035	4	-34,248,252.641	0.000	0.000	0.08489977	45,744,143.386	181,611,368.443	3,454,203.882
2035	5	-34,248,252.641	0.000	0.000	0.08489977	44,741,918.926	57,795,682.150	24,324,269.085
2035	6	-34,248,252.641	-0.000	0.000	0.08489977	47,987,289.971	8,092,006.195	130,954,274.026
2035	7	-34,248,252.641	0.000	0.000	0.08489977	52,179,333.515	100,507.270	302,582,508.987
2035	8	-34,248,252.641	0.000	0.000	0.08489977	52,982,466.109	0.000	317,769,943.013
2035	9	-34,248,252.641	0.000	0.000	0.08489977	53,125,255.883	357,672.681	224,118,303.631
2035	10	-34,248,252.641	-0.000	0.000	0.08489977	46,146,858.862	19,919,652.196	67,193,583.655
2035	11	-34,248,252.641	0.000	0.000	0.08489977	44,954,803.770	106,181,264.685	6,415,078.896
2035	12	-34,248,252.641	0.000	0.000	0.08489977	56,217,375.567	253,717,824.762	83,002.736
2036	1	-34,248,252.641	0.000	0.000	0.08323659	62,520,691.520	377,941,418.992	0.000
2036	2	-34,248,252.641	0.000	0.000	0.08323659	48,841,649.039	403,685,436.555	0.000
2036	3	-34,248,252.641	-0.000	0.000	0.08323659	45,558,984.844	324,330,380.202	416,784.100
2036	4	-34,248,252.641	0.000	0.000	0.08323659	45,046,780.913	180,999,601.923	3,476,833.666
2036	5	-34,248,252.641	-0.000	0.000	0.08323659	44,069,469.992	57,601,238.830	24,483,687.249
2036	6	-34,248,252.641	-0.000	0.000	0.08323659	47,266,306.124	8,064,813.315	131,812,816.568
2036	7	-34,248,252.641	-0.000	0.000	0.08323659	51,378,379.286	100,169.501	304,565,642.101
2036	8	-34,248,252.641	-0.000	0.000	0.08323659	52,155,441.132	0.000	319,851,012.802
2036	9	-34,248,252.641	-0.000	0.000	0.08323659	52,295,999.734	356,467.106	225,583,830.082
2036	10	-34,248,252.641	-0.000	0.000	0.08323659	45,441,221.422	19,852,333.541	67,632,172.736
2036	11	-34,248,252.641	0.000	0.000	0.08323659	44,262,144.176	105,821,397.521	6,456,871.019
2036	12	-34,248,252.641	0.000	0.000	0.08323659	55,297,836.954	252,714,654.391	83,505.317
2037	1	-34,248,252.641	0.000	0.000	0.081773725	61,616,566.116	376,505,409.536	0.000
2037	2	-34,248,252.641	0.000	0.000	0.081773725	48,159,812.105	402,138,796.093	0.000
2037	3	-34,248,252.641	0.000	0.000	0.081773725	44,936,052.196	323,077,002.893	419,203.423
2037	4	-34,248,252.641	0.000	0.000	0.081773725	44,439,906.071	180,295,551.634	3,496,929.900
2037	5	-34,248,252.641	0.000	0.000	0.081773725	43,483,824.035	57,375,800.198	24,624,631.933
2037	6	-34,248,252.641	-0.000	0.000	0.081773725	46,637,364.414	8,033,060.829	132,568,645.986
2037	7	-34,248,252.641	0.000	0.000	0.081773725	50,679,084.639	99,773.082	306,306,145.397
2037	8	-34,248,252.641	-0.000	0.000	0.081773725	51,432,670.752	0.000	321,672,128.682
2037	9	-34,248,252.641	-0.000	0.000	0.081773725	51,570,810.872	355,040.897	226,863,460.896
2037	10	-34,248,252.641	-0.000	0.000	0.081773725	44,824,141.544	19,772,471.225	68,014,373.103
2037	11	-34,248,252.641	0.000	0.000	0.081773725	43,656,022.252	105,393,515.392	6,493,231.322
2037	12	-34,248,252.641	0.000	0.000	0.081773725	54,528,158.322	251,815,357.579	84,008.002

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2038	1	-34,248,252.641	0.000	0.000	0.080475648	60,853,388.508	375,275,070.196	0.000
2038	2	-34,248,252.641	0.000	0.000	0.080475648	47,589,977.566	400,821,426.191	0.000
2038	3	-34,248,252.641	0.000	0.000	0.080475648	44,418,632.453	322,015,906.963	421,742.693
2038	4	-34,248,252.641	0.000	0.000	0.080475648	43,937,163.984	179,701,515.939	3,518,070.507
2038	5	-34,248,252.641	0.000	0.000	0.080475648	42,999,402.539	57,186,128.191	24,773,188.834
2038	6	-34,248,252.641	-0.000	0.000	0.080475648	46,115,639.532	8,006,424.421	133,366,861.638
2038	7	-34,248,252.641	0.000	0.000	0.080475648	50,094,509.696	99,441.201	308,146,771.679
2038	8	-34,248,252.641	0.000	0.000	0.080475648	50,826,360.759	0.000	323,601,932.371
2038	9	-34,248,252.641	0.000	0.000	0.080475648	50,964,275.210	353,854.496	228,222,752.030
2038	10	-34,248,252.641	0.000	0.000	0.080475648	44,313,726.371	19,706,280.971	68,421,438.371
2038	11	-34,248,252.641	0.000	0.000	0.080475648	43,156,241.260	105,040,212.720	6,532,058.498
2038	12	-34,248,252.641	0.000	0.000	0.080475648	53,877,041.997	251,002,161.826	84,518.523
2039	1	-34,248,252.641	0.000	0.000	0.079290349	60,175,836.496	374,253,037.313	0.000
2039	2	-34,248,252.641	-0.000	0.000	0.079290349	47,086,928.798	399,728,084.094	0.000
2039	3	-34,248,252.641	0.000	0.000	0.079290349	43,963,414.698	321,136,920.980	424,270.423
2039	4	-34,248,252.641	0.000	0.000	0.079290349	43,495,749.086	179,211,020.048	3,539,156.135
2039	5	-34,248,252.641	-0.000	0.000	0.079290349	42,574,665.985	57,030,096.266	24,921,686.379
2039	6	-34,248,252.641	-0.000	0.000	0.079290349	45,657,566.812	7,984,603.381	134,166,655.345
2039	7	-34,248,252.641	0.000	0.000	0.079290349	49,579,248.986	99,170.623	309,995,936.978
2039	8	-34,248,252.641	0.000	0.000	0.079290349	50,290,923.388	0.000	325,545,835.407
2039	9	-34,248,252.641	0.000	0.000	0.079290349	50,429,633.064	352,896.853	229,595,460.132
2039	10	-34,248,252.641	-0.000	0.000	0.079290349	43,867,060.083	19,653,125.644	68,833,572.194
2039	11	-34,248,252.641	0.000	0.000	0.079290349	42,719,722.187	104,757,793.140	6,571,458.644
2039	12	-34,248,252.641	0.000	0.000	0.079290349	53,309,674.999	250,391,192.005	85,045.748
2040	1	-34,248,252.641	-0.000	0.000	0.075714102	57,505,091.502	373,488,997.088	0.000
2040	2	-34,248,252.641	0.000	0.000	0.075714102	45,010,757.534	398,919,518.690	0.000
2040	3	-34,248,252.641	-0.000	0.000	0.075714102	42,036,325.578	320,493,452.385	426,875.216
2040	4	-34,248,252.641	0.000	0.000	0.075714102	41,601,236.250	178,853,328.939	3,560,906.920
2040	5	-34,248,252.641	0.000	0.000	0.075714102	40,736,456.744	56,916,658.430	25,074,977.473
2040	6	-34,248,252.641	0.000	0.000	0.075714102	43,701,642.050	7,968,745.326	134,992,052.396
2040	7	-34,248,252.641	-0.000	0.000	0.075714102	47,452,537.490	98,973.585	311,902,141.555
2040	8	-34,248,252.641	-0.000	0.000	0.075714102	48,122,771.692	0.000	327,545,434.508
2040	9	-34,248,252.641	0.000	0.000	0.075714102	48,246,150.836	352,191.660	231,003,489.554

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2040	10	-34,248,252.641	0.000	0.000	0.075714102	41,960,986.830	19,613,667.399	69,254,878.170
2040	11	-34,248,252.641	0.000	0.000	0.075714102	40,848,205.412	104,546,472.607	6,611,601.815
2040	12	-34,248,252.641	0.000	0.000	0.075714102	50,923,099.359	249,647,198.198	85,499.560
2041	1	-34,248,252.641	0.000	0.000	0.072642942	55,241,319.078	372,413,281.609	0.000
2041	2	-34,248,252.641	-0.000	0.000	0.072642942	43,252,627.708	397,756,730.977	0.000
2041	3	-34,248,252.641	0.000	0.000	0.072642942	40,404,244.190	319,547,604.265	429,104.278
2041	4	-34,248,252.641	0.000	0.000	0.072642942	39,996,312.566	178,320,391.266	3,579,406.960
2041	5	-34,248,252.641	0.000	0.000	0.072642942	39,178,016.835	56,745,528.253	25,204,627.976
2041	6	-34,248,252.641	0.000	0.000	0.072642942	42,041,073.999	7,944,588.626	135,687,011.228
2041	7	-34,248,252.641	-0.000	0.000	0.072642942	45,645,031.385	98,671.352	313,501,721.951
2041	8	-34,248,252.641	0.000	0.000	0.072642942	46,279,113.437	0.000	329,218,670.729
2041	9	-34,248,252.641	-0.000	0.000	0.072642942	46,389,840.749	351,100.757	232,179,245.669
2041	10	-34,248,252.641	0.000	0.000	0.072642942	40,342,870.702	19,552,499.340	69,606,076.251
2041	11	-34,248,252.641	0.000	0.000	0.072642942	39,260,090.995	104,218,356.616	6,645,015.836
2041	12	-34,248,252.641	0.000	0.000	0.072642942	48,935,565.894	248,954,339.548	85,956.589
2042	1	-34,248,252.641	0.000	0.000	0.07007082	53,386,562.982	371,515,921.293	0.000
2042	2	-34,248,252.641	-0.000	0.000	0.07007082	41,817,019.294	396,796,499.054	0.000
2042	3	-34,248,252.641	0.000	0.000	0.07007082	39,074,228.739	318,775,781.014	431,389.166
2042	4	-34,248,252.641	0.000	0.000	0.07007082	38,689,405.458	177,889,618.647	3,598,467.866
2042	5	-34,248,252.641	0.000	0.000	0.07007082	37,909,248.965	56,608,546.811	25,338,906.150
2042	6	-34,248,252.641	-0.000	0.000	0.07007082	40,687,377.238	7,925,444.422	136,410,523.728
2042	7	-34,248,252.641	-0.000	0.000	0.07007082	44,167,953.447	98,434.110	315,175,167.756
2042	8	-34,248,252.641	0.000	0.000	0.07007082	44,771,334.534	0.000	330,979,034.706
2042	9	-34,248,252.641	0.000	0.000	0.07007082	44,873,996.745	350,263.065	233,423,070.023
2042	10	-34,248,252.641	-0.000	0.000	0.07007082	39,027,449.011	19,506,078.407	69,979,828.879
2042	11	-34,248,252.641	0.000	0.000	0.07007082	37,971,276.980	103,972,276.684	6,680,788.015
2042	12	-34,248,252.641	0.000	0.000	0.07007082	47,310,052.722	248,387,548.739	86,425.493
2043	1	-34,248,252.641	0.000	0.000	0.068026732	51,963,549.220	370,783,771.107	0.000
2043	2	-34,248,252.641	-0.000	0.000	0.068026732	40,721,619.037	396,019,197.413	0.000
2043	3	-34,248,252.641	-0.000	0.000	0.068026732	38,062,197.986	318,153,935.182	433,762.511
2043	4	-34,248,252.641	0.000	0.000	0.068026732	37,696,187.038	177,543,816.708	3,618,288.610
2043	5	-34,248,252.641	0.000	0.000	0.068026732	36,945,370.682	56,498,825.014	25,478,609.963
2043	6	-34,248,252.641	-0.000	0.000	0.068026732	39,656,675.099	7,910,129.038	137,163,402.721

Indiana Michigan Power Company - Indiana
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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2043	7	-34,248,252.641	0.000	0.000	0.068026732	43,038,831.001	98,244.592	316,917,050.397
2043	8	-34,248,252.641	0.000	0.000	0.068026732	43,616,243.076	0.000	332,810,553.953
2043	9	-34,248,252.641	0.000	0.000	0.068026732	43,714,085.475	349,592.856	234,716,332.877
2043	10	-34,248,252.641	0.000	0.000	0.068026732	38,026,222.108	19,468,833.397	70,367,906.279
2043	11	-34,248,252.641	0.000	0.000	0.068026732	36,991,206.102	103,773,809.131	6,717,844.785
2043	12	-34,248,252.641	-0.000	0.000	0.068026732	46,063,448.206	247,895,261.590	86,899.717
2044	1	-34,248,252.641	-0.000	0.000	0.066559947	51,012,110.840	370,219,987.071	0.000
2044	2	-34,248,252.641	0.000	0.000	0.066559947	39,997,576.765	395,420,831.917	0.000
2044	3	-34,248,252.641	0.000	0.000	0.066559947	37,397,546.769	317,678,192.701	436,181.350
2044	4	-34,248,252.641	0.000	0.000	0.066559947	37,045,749.518	177,280,070.799	3,638,507.154
2044	5	-34,248,252.641	-0.000	0.000	0.066559947	36,315,181.647	56,415,472.796	25,621,271.187
2044	6	-34,248,252.641	0.000	0.000	0.066559947	38,980,185.314	7,898,508.554	137,932,272.857
2044	7	-34,248,252.641	0.000	0.000	0.066559947	42,291,207.429	98,100.492	318,693,989.112
2044	8	-34,248,252.641	-0.000	0.000	0.066559947	42,847,841.701	0.000	334,677,276.726
2044	9	-34,248,252.641	-0.000	0.000	0.066559947	42,944,223.069	349,082.820	236,033,635.422
2044	10	-34,248,252.641	0.000	0.000	0.066559947	37,369,257.134	19,440,571.314	70,763,289.629
2044	11	-34,248,252.641	0.000	0.000	0.066559947	36,349,434.617	103,624,102.035	6,755,648.796
2044	12	-34,248,252.641	0.000	0.000	0.066559947	45,230,333.869	247,464,543.975	87,368.348
2045	1	-34,248,252.641	0.000	0.000	0.065408142	50,306,579.855	369,540,799.974	0.000
2045	2	-34,248,252.641	-0.000	0.000	0.065408142	39,465,600.210	394,691,580.761	0.000
2045	3	-34,248,252.641	0.000	0.000	0.065408142	36,911,265.875	317,088,364.273	438,470.116
2045	4	-34,248,252.641	0.000	0.000	0.065408142	36,570,965.403	176,950,080.076	3,657,589.815
2045	5	-34,248,252.641	0.000	0.000	0.065408142	35,855,513.025	56,310,206.076	25,755,589.499
2045	6	-34,248,252.641	-0.000	0.000	0.065408142	38,484,872.278	7,883,748.277	138,655,389.223
2045	7	-34,248,252.641	0.000	0.000	0.065408142	41,739,965.341	97,917.090	320,365,588.397
2045	8	-34,248,252.641	0.000	0.000	0.065408142	42,278,892.178	0.000	336,433,314.966
2045	9	-34,248,252.641	-0.000	0.000	0.065408142	42,374,765.345	348,428.117	237,271,974.426
2045	10	-34,248,252.641	-0.000	0.000	0.065408142	36,887,255.633	19,403,999.643	71,134,406.034
2045	11	-34,248,252.641	0.000	0.000	0.065408142	35,878,672.458	103,428,459.465	6,791,059.287
2045	12	-34,248,252.641	-0.000	0.000	0.065408142	44,618,894.805	246,989,884.595	87,824.420
2046	1	-34,248,252.641	0.000	0.000	0.06440195	49,712,494.325	368,941,813.992	0.000
2046	2	-34,248,252.641	-0.000	0.000	0.06440195	39,020,655.557	394,047,507.564	0.000
2046	3	-34,248,252.641	-0.000	0.000	0.06440195	36,506,040.510	316,566,746.130	440,749.423

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2046	4	-34,248,252.641	0.000	0.000	0.06440195	36,175,758.167	176,656,240.996	3,676,558.066
2046	5	-34,248,252.641	0.000	0.000	0.06440195	35,472,993.456	56,215,805.111	25,888,826.823
2046	6	-34,248,252.641	0.000	0.000	0.06440195	38,071,577.317	7,870,418.163	139,371,092.900
2046	7	-34,248,252.641	-0.000	0.000	0.06440195	41,277,517.607	97,750.129	322,015,615.065
2046	8	-34,248,252.641	0.000	0.000	0.06440195	41,800,181.868	0.000	338,162,534.291
2046	9	-34,248,252.641	0.000	0.000	0.06440195	41,896,030.881	347,824.403	238,488,943.780
2046	10	-34,248,252.641	0.000	0.000	0.06440195	36,484,374.371	19,370,080.987	71,498,388.590
2046	11	-34,248,252.641	-0.000	0.000	0.06440195	35,485,462.888	103,246,134.597	6,825,729.943
2046	12	-34,248,252.641	0.000	0.000	0.06440195	44,105,438.451	246,552,379.445	88,272.159
2047	1	-34,248,252.641	-0.000	0.000	0.06353085	49,225,273.622	368,381,288.176	0.000
2047	2	-34,248,252.641	-0.000	0.000	0.06353085	38,659,814.603	393,446,407.431	0.000
2047	3	-34,248,252.641	-0.000	0.000	0.06353085	36,179,631.828	316,081,967.319	443,009.090
2047	4	-34,248,252.641	0.000	0.000	0.06353085	35,858,630.544	176,384,475.173	3,695,385.138
2047	5	-34,248,252.641	0.000	0.000	0.06353085	35,166,805.650	56,128,925.968	26,021,239.565
2047	6	-34,248,252.641	-0.000	0.000	0.06353085	37,739,632.702	7,858,193.003	140,082,952.236
2047	7	-34,248,252.641	-0.000	0.000	0.06353085	40,903,136.396	97,597.494	323,657,987.266
2047	8	-34,248,252.641	0.000	0.000	0.06353085	41,410,953.639	0.000	339,884,305.304
2047	9	-34,248,252.641	-0.000	0.000	0.06353085	41,507,717.167	347,274.426	239,701,014.715
2047	10	-34,248,252.641	-0.000	0.000	0.06353085	36,161,389.592	19,339,225.581	71,860,998.498
2047	11	-34,248,252.641	0.000	0.000	0.06353085	35,170,778.479	103,080,280.645	6,860,262.878
2047	12	-34,248,252.641	-0.000	0.000	0.06353085	43,689,391.598	246,151,408.927	88,717.223
2048	1	-34,248,252.641	0.000	0.000	0.062749056	48,807,032.422	367,825,095.744	0.000
2048	2	-34,248,252.641	-0.000	0.000	0.062749056	38,352,753.552	392,846,526.035	0.000
2048	3	-34,248,252.641	-0.000	0.000	0.062749056	35,903,093.898	315,595,007.034	445,171.385
2048	4	-34,248,252.641	0.000	0.000	0.062749056	35,590,308.203	176,108,288.659	3,713,340.100
2048	5	-34,248,252.641	-0.000	0.000	0.062749056	34,907,646.765	56,039,504.202	26,147,030.906
2048	6	-34,248,252.641	-0.000	0.000	0.062749056	37,457,411.724	7,845,451.843	140,756,525.181
2048	7	-34,248,252.641	0.000	0.000	0.062749056	40,582,356.870	97,436.279	325,205,126.611
2048	8	-34,248,252.641	0.000	0.000	0.062749056	41,075,867.241	0.000	341,498,758.662
2048	9	-34,248,252.641	-0.000	0.000	0.062749056	41,173,240.387	346,677.799	240,832,030.880
2048	10	-34,248,252.641	0.000	0.000	0.062749056	35,884,687.943	19,305,341.013	72,197,801.384
2048	11	-34,248,252.641	0.000	0.000	0.062749056	34,900,895.401	102,896,042.130	6,892,193.100
2048	12	-34,248,252.641	-0.000	0.000	0.062749056	43,329,342.764	245,702,482.882	89,127.182

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2049	1	-34,248,252.641	0.000	0.000	0.062029137	48,437,452.085	367,312,399.778	0.000
2049	2	-34,248,252.641	0.000	0.000	0.062029137	38,083,692.403	392,291,898.353	0.000
2049	3	-34,248,252.641	-0.000	0.000	0.062029137	35,661,864.351	315,143,488.238	447,267.365
2049	4	-34,248,252.641	0.000	0.000	0.062029137	35,356,666.498	175,851,408.874	3,730,732.022
2049	5	-34,248,252.641	0.000	0.000	0.062029137	34,682,114.534	55,956,084.718	26,268,791.396
2049	6	-34,248,252.641	-0.000	0.000	0.062029137	37,210,860.654	7,833,532.340	141,408,060.006
2049	7	-34,248,252.641	0.000	0.000	0.062029137	40,300,099.988	97,285.053	326,700,605.034
2049	8	-34,248,252.641	-0.000	0.000	0.062029137	40,779,852.607	0.000	343,058,211.573
2049	9	-34,248,252.641	0.000	0.000	0.062029137	40,878,052.964	346,115.271	241,923,743.822
2049	10	-34,248,252.641	0.000	0.000	0.062029137	35,642,331.434	19,273,318.078	72,522,673.205
2049	11	-34,248,252.641	0.000	0.000	0.062029137	34,664,644.790	102,721,532.798	6,922,970.453
2049	12	-34,248,252.641	-0.000	0.000	0.062029137	43,011,282.403	245,276,032.557	89,521.974
2050	1	-34,248,252.641	0.000	0.000	0.06138657	48,132,535.469	366,845,389.989	0.000
2050	2	-34,248,252.641	-0.000	0.000	0.06138657	37,865,638.578	391,785,368.381	0.000
2050	3	-34,248,252.641	-0.000	0.000	0.06138657	35,468,324.964	314,730,056.417	449,407.608
2050	4	-34,248,252.641	0.000	0.000	0.06138657	35,170,023.836	175,615,481.598	3,748,486.774
2050	5	-34,248,252.641	-0.000	0.000	0.06138657	34,502,289.638	55,879,237.695	26,393,062.029
2050	6	-34,248,252.641	0.000	0.000	0.06138657	37,012,747.837	7,822,519.917	142,072,870.290
2050	7	-34,248,252.641	-0.000	0.000	0.06138657	40,069,811.641	97,144.934	328,226,211.566
2050	8	-34,248,252.641	0.000	0.000	0.06138657	40,536,372.647	0.000	344,648,729.852
2050	9	-34,248,252.641	0.000	0.000	0.06138657	40,635,870.096	345,591.120	243,036,947.557
2050	10	-34,248,252.641	0.000	0.000	0.06138657	35,446,787.677	19,243,400.025	72,853,862.661
2050	11	-34,248,252.641	0.000	0.000	0.06138657	34,474,355.193	102,558,067.303	6,954,338.784
2050	12	-34,248,252.641	0.000	0.000	0.06138657	42,750,615.817	244,879,058.096	89,925.199
2051	1	-34,248,252.641	0.000	0.000	0.060608505	47,703,372.311	367,722,198.472	0.000
2051	2	-34,248,252.641	-0.000	0.000	0.060608505	37,548,609.871	392,719,037.543	0.000
2051	3	-34,248,252.641	-0.000	0.000	0.060608505	35,181,862.899	315,477,637.475	452,023.561
2051	4	-34,248,252.641	0.000	0.000	0.060608505	34,891,696.387	176,029,667.172	3,770,244.073
2051	5	-34,248,252.641	-0.000	0.000	0.060608505	34,233,257.445	56,009,983.247	26,545,760.677
2051	6	-34,248,252.641	-0.000	0.000	0.060608505	36,720,440.785	7,840,670.139	142,892,022.075
2051	7	-34,248,252.641	-0.000	0.000	0.060608505	39,739,364.847	97,368.236	330,111,415.643
2051	8	-34,248,252.641	-0.000	0.000	0.060608505	40,192,339.593	0.000	346,620,027.017
2051	9	-34,248,252.641	-0.000	0.000	0.060608505	40,292,433.986	346,369.164	244,421,074.579

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Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2051	10	-34,248,252.641	0.000	0.000	0.060608505	35,161,421.902	19,286,257.326	73,266,979.518
2051	11	-34,248,252.641	-0.000	0.000	0.060608505	34,196,213.130	102,783,927.966	6,993,598.283
2051	12	-34,248,252.641	0.000	0.000	0.060608505	42,381,917.107	245,411,079.441	90,430.275
2052	1	-34,248,252.641	-0.000	0.000	0.05983869	47,278,237.917	368,605,885.837	0.000
2052	2	-34,248,252.641	0.000	0.000	0.05983869	37,234,318.319	393,658,157.018	0.000
2052	3	-34,248,252.641	0.000	0.000	0.05983869	34,897,666.166	316,228,075.049	454,648.719
2052	4	-34,248,252.641	0.000	0.000	0.05983869	34,615,368.548	176,444,586.911	3,792,064.045
2052	5	-34,248,252.641	0.000	0.000	0.05983869	33,965,963.447	56,140,687.348	26,698,800.885
2052	6	-34,248,252.641	-0.000	0.000	0.05983869	36,429,897.307	7,858,776.351	143,712,479.559
2052	7	-34,248,252.641	-0.000	0.000	0.05983869	39,410,941.612	97,590.519	331,998,403.688
2052	8	-34,248,252.641	0.000	0.000	0.05983869	39,850,437.118	0.000	348,591,897.636
2052	9	-34,248,252.641	0.000	0.000	0.05983869	39,951,015.125	347,140.118	245,804,640.125
2052	10	-34,248,252.641	0.000	0.000	0.05983869	34,877,442.355	19,328,622.799	73,679,642.613
2052	11	-34,248,252.641	0.000	0.000	0.05983869	33,919,336.683	103,006,639.004	7,032,786.611
2052	12	-34,248,252.641	0.000	0.000	0.05983869	42,015,275.245	245,935,308.860	90,934.338
2053	1	-34,248,252.641	-0.000	0.000	0.059077186	46,855,694.834	369,478,448.169	0.000
2053	2	-34,248,252.641	0.000	0.000	0.059077186	36,921,605.139	394,585,220.889	0.000
2053	3	-34,248,252.641	-0.000	0.000	0.059077186	34,614,705.851	316,968,674.239	457,272.438
2053	4	-34,248,252.641	0.000	0.000	0.059077186	34,340,126.867	176,853,905.727	3,813,869.657
2053	5	-34,248,252.641	0.000	0.000	0.059077186	33,699,619.732	56,269,569.493	26,851,721.747
2053	6	-34,248,252.641	-0.000	0.000	0.059077186	36,140,422.660	7,876,621.683	144,532,192.225
2053	7	-34,248,252.641	0.000	0.000	0.059077186	39,083,981.106	97,809.490	333,883,429.201
2053	8	-34,248,252.641	0.000	0.000	0.059077186	39,510,228.734	0.000	350,561,455.617
2053	9	-34,248,252.641	-0.000	0.000	0.059077186	39,611,252.457	347,898.794	247,186,399.095
2053	10	-34,248,252.641	-0.000	0.000	0.059077186	34,594,582.032	19,370,291.894	74,091,712.886
2053	11	-34,248,252.641	0.000	0.000	0.059077186	33,643,556.031	103,225,570.131	7,071,913.366
2053	12	-34,248,252.641	-0.000	0.000	0.059077186	41,650,548.309	246,450,767.774	91,437.652
2054	1	-34,248,252.641	0.000	0.000	0.058324011	46,435,649.531	370,341,604.332	0.000
2054	2	-34,248,252.641	-0.000	0.000	0.058324011	36,610,430.206	395,502,745.003	0.000
2054	3	-34,248,252.641	0.000	0.000	0.058324011	34,332,988.124	317,702,042.998	459,898.665
2054	4	-34,248,252.641	-0.000	0.000	0.058324011	34,066,030.326	177,259,446.319	3,835,699.695
2054	5	-34,248,252.641	0.000	0.000	0.058324011	33,434,339.842	56,397,336.766	27,004,841.436
2054	6	-34,248,252.641	-0.000	0.000	0.058324011	35,852,191.359	7,894,323.147	145,353,119.641

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	d15onjan	ARMA	X-Missing	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage
2054	7	-34,248,252.641	0.000	0.000	0.058324011	38,758,709.844	98,026.820	335,771,574.215
2054	8	-34,248,252.641	-0.000	0.000	0.058324011	39,171,979.480	0.000	352,534,588.449
2054	9	-34,248,252.641	-0.000	0.000	0.058324011	39,273,468.787	348,652.611	248,570,887.787
2054	10	-34,248,252.641	0.000	0.000	0.058324011	34,313,202.659	19,411,715.890	74,504,657.283
2054	11	-34,248,252.641	0.000	0.000	0.058324011	33,369,279.365	103,443,333.098	7,111,128.957
2054	12	-34,248,252.641	0.000	0.000	0.058324011	41,288,275.166	246,964,418.252	91,942.364

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2005	1	197,322,342.440	628,583,605.132	1,222,104,189.704	1,222,104,189.70	396,198,242.132	0.000
2005	2	158,873,946.698	506,103,652.238	1,113,165,486.138	1,104,677,456.17	448,187,887.202	0.000
2005	3	165,755,210.247	528,024,380.505	1,049,838,537.833	1,027,179,471.54	356,058,947.081	0.000
2005	4	163,185,167.195	519,837,335.354	874,896,248.058	864,178,503.18	190,594,998.100	1,278,747.409
2005	5	154,765,030.594	493,014,423.385	741,416,189.496	737,439,247.43	78,685,118.504	14,951,617.013
2005	6	166,253,793.146	529,612,649.892	825,169,245.341	842,535,974.44	13,094,176.449	116,208,625.854
2005	7	182,424,204.855	581,124,584.945	1,140,975,022.266	1,154,990,162.86	0.000	377,426,232.466
2005	8	177,266,472.831	564,694,282.377	1,166,699,150.056	1,166,756,969.35	0.000	424,738,394.848
2005	9	181,954,726.820	579,629,031.061	1,021,728,428.211	1,042,947,645.99	0.000	260,144,670.330
2005	10	166,332,736.072	529,864,127.897	827,677,034.792	808,878,202.76	10,826,837.617	120,653,333.206
2005	11	160,586,380.319	511,558,724.816	777,257,078.835	770,586,960.83	95,350,266.504	9,761,707.196
2005	12	194,859,558.364	620,738,240.668	1,154,039,585.340	1,113,492,084.97	338,441,786.309	0.000
2006	1	209,274,625.409	694,454,761.268	1,261,886,705.867	1,261,765,924.71	358,157,319.190	0.000
2006	2	172,262,091.891	571,632,751.299	1,037,762,674.500	1,029,995,482.57	293,867,831.311	0.000
2006	3	160,761,960.858	533,470,834.941	1,022,540,221.683	1,010,864,730.82	328,307,425.884	0.000
2006	4	151,579,526.719	502,999,940.078	840,643,037.269	827,744,586.94	184,742,155.772	1,321,414.700
2006	5	154,152,827.462	511,539,154.759	707,584,598.967	708,201,048.18	39,341,439.355	2,551,177.391
2006	6	161,716,447.771	536,638,194.479	828,556,821.741	851,210,986.07	15,237,998.908	114,964,180.583
2006	7	174,440,629.125	578,861,986.816	1,020,087,328.526	1,020,497,358.73	0.000	266,784,712.584
2006	8	173,124,345.605	574,494,045.143	1,147,209,166.746	1,168,596,592.07	0.000	399,590,775.997
2006	9	177,857,808.854	590,201,520.829	934,629,414.994	940,085,420.20	871,431.342	165,698,653.969
2006	10	156,312,636.290	518,706,242.124	720,201,234.314	715,642,943.38	29,953,017.207	15,229,338.693
2006	11	159,032,328.595	527,731,241.055	844,952,391.779	850,916,498.38	156,794,340.239	1,394,481.890
2006	12	191,664,508.271	636,017,529.955	1,058,444,078.486	1,079,823,341.38	230,762,040.260	0.000
2007	1	207,217,828.957	716,533,671.171	1,187,573,030.176	1,171,404,713.32	263,821,530.048	0.000
2007	2	168,441,988.634	582,451,602.273	1,230,136,811.212	1,256,888,620.08	479,243,220.306	0.000
2007	3	159,278,931.745	550,766,882.742	1,149,376,550.296	1,120,964,281.52	439,243,027.017	87,708.791
2007	4	151,012,315.593	522,181,944.616	843,488,917.348	867,673,200.49	164,779,293.863	5,515,363.276
2007	5	151,073,382.987	522,393,108.125	763,826,276.299	757,499,019.57	62,569,007.680	27,790,777.507
2007	6	153,995,495.900	532,497,413.838	887,977,158.517	893,106,273.56	4,309,255.714	197,174,993.066
2007	7	167,655,369.543	579,731,570.564	1,036,514,748.443	1,050,550,772.61	0.000	289,127,808.336
2007	8	169,711,364.745	586,840,948.157	1,098,867,050.017	1,101,282,504.46	0.000	342,314,737.116
2007	9	170,682,154.939	590,197,820.803	1,047,856,457.441	1,066,945,212.77	760,354.572	286,216,127.127

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2007	10	158,543,963.176	548,225,452.164	856,492,148.316	844,860,283.49	7,737,468.366	141,985,264.609
2007	11	153,672,972.300	531,382,167.046	808,354,281.526	811,138,056.16	93,427,205.312	29,871,936.869
2007	12	184,100,620.548	636,597,218.346	1,117,816,766.989	1,116,535,807.00	297,118,928.095	0.000
2008	1	199,967,170.782	719,378,561.109	1,289,994,672.521	1,307,785,885.66	370,648,940.631	0.000
2008	2	164,395,856.391	591,411,350.976	1,198,419,752.762	1,222,297,719.24	442,612,545.395	0.000
2008	3	155,033,265.253	557,729,585.541	1,132,934,704.855	1,135,098,446.67	420,171,854.061	0.000
2008	4	147,388,410.576	530,227,348.369	898,996,692.724	917,562,635.63	221,051,546.324	329,387.455
2008	5	143,889,698.043	517,640,788.395	728,132,724.907	715,066,773.91	53,639,114.078	12,963,124.391
2008	6	149,744,135.939	538,702,031.065	829,411,159.800	813,217,764.20	12,415,548.758	128,549,444.038
2008	7	161,830,246.780	582,181,613.199	993,303,983.299	993,689,713.73	16,015.779	249,276,107.542
2008	8	161,018,275.420	579,260,559.774	1,054,618,926.643	1,048,238,839.09	0.000	314,340,091.450
2008	9	162,038,094.469	582,929,341.793	978,491,514.078	956,267,613.08	0.000	233,524,077.815
2008	10	145,837,840.070	524,649,196.838	747,698,152.127	761,156,739.74	14,107,642.250	63,103,472.968
2008	11	150,778,428.848	542,422,882.550	810,828,260.177	812,214,857.65	113,533,186.881	4,093,761.899
2008	12	179,332,527.368	645,145,775.646	1,165,368,765.190	1,180,788,748.00	340,890,462.176	0.000
2009	1	195,494,726.254	727,217,834.520	1,366,353,596.131	1,421,423,301.17	443,641,035.357	0.000
2009	2	163,313,848.473	607,508,680.717	1,295,302,173.583	1,290,897,327.19	524,479,644.393	0.000
2009	3	145,441,828.115	541,026,826.234	1,001,745,280.454	1,042,256,079.61	315,276,626.104	0.000
2009	4	146,719,648.630	545,780,171.174	855,170,111.433	869,439,326.63	161,958,842.170	711,449.460
2009	5	138,988,052.140	517,019,523.944	754,052,729.630	736,305,248.00	62,456,437.514	35,588,716.032
2009	6	141,529,186.613	526,472,251.104	764,397,824.722	766,368,128.69	6,735,228.245	89,661,158.760
2009	7	160,021,917.765	595,263,078.156	1,009,192,698.610	979,413,814.25	0.000	253,907,702.688
2009	8	151,853,066.262	564,875,892.709	920,835,464.502	915,594,702.87	0.000	204,106,505.531
2009	9	157,419,341.056	585,581,792.961	889,372,502.812	884,971,974.90	0.000	146,371,368.795
2009	10	146,838,825.993	546,223,497.218	773,579,034.636	782,179,201.11	36,139,462.198	44,377,249.227
2009	11	143,014,793.837	531,998,538.638	773,188,131.066	804,218,572.79	98,174,798.591	0.000
2009	12	176,475,367.474	656,468,013.433	1,061,749,118.757	1,087,856,595.28	228,805,737.851	0.000
2010	1	169,450,188.002	743,862,047.384	1,342,200,878.630	1,403,274,674.46	428,888,643.245	0.000
2010	2	139,545,315.645	612,583,942.353	1,196,173,924.788	1,214,391,091.73	444,044,666.789	0.000
2010	3	124,374,916.865	545,988,065.243	1,000,899,351.174	1,019,431,759.76	330,536,369.066	0.000
2010	4	127,321,503.916	558,923,160.224	809,350,039.793	797,057,545.26	112,075,125.778	11,030,249.876
2010	5	118,504,307.067	520,216,929.340	690,530,491.901	690,513,687.94	26,267,496.576	25,541,758.919
2010	6	125,838,146.734	552,411,434.724	918,633,824.452	911,343,274.18	5,373,397.250	235,010,845.744

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2010	7	133,639,609.453	586,658,738.308	1,142,793,236.851	1,151,883,770.02	0.000	422,494,889.089
2010	8	138,460,222.829	607,820,540.357	1,222,202,151.817	1,222,852,139.88	0.000	475,921,388.630
2010	9	137,774,657.298	604,811,005.899	1,032,837,300.812	1,045,503,908.61	0.000	290,251,637.615
2010	10	123,931,865.525	544,043,133.340	764,776,326.548	737,567,231.96	12,333,637.029	84,467,690.654
2010	11	120,908,239.983	530,769,850.417	754,549,353.877	758,500,340.97	95,309,198.698	7,562,064.779
2010	12	150,359,634.510	660,057,252.751	1,121,968,768.788	1,112,507,867.77	311,551,881.527	0.000
2011	1	156,712,922.155	733,269,102.525	1,349,159,531.726	1,373,172,391.46	459,177,507.045	0.000
2011	2	133,248,318.042	623,476,821.438	1,258,744,877.263	1,241,975,465.29	502,019,737.783	0.000
2011	3	116,002,867.767	542,784,331.806	993,806,457.268	997,269,207.56	335,019,257.695	0.000
2011	4	112,243,955.259	525,196,156.159	836,855,841.694	836,996,084.64	196,680,701.722	2,735,028.555
2011	5	119,317,530.365	558,293,835.653	760,531,411.352	778,458,985.35	60,617,430.051	22,302,615.284
2011	6	124,987,823.721	584,825,476.202	920,496,781.727	896,131,113.02	8,488,852.829	202,194,628.974
2011	7	127,703,936.537	597,534,329.941	1,100,034,271.708	1,091,681,552.26	0.000	374,796,005.230
2011	8	133,264,337.184	623,551,775.958	1,295,517,634.671	1,275,079,505.35	0.000	538,701,521.529
2011	9	127,106,094.503	594,736,991.436	976,125,474.856	971,145,601.54	1,303,753.720	252,978,635.197
2011	10	119,185,571.182	557,676,390.770	726,352,133.950	718,245,424.50	15,582,178.356	33,907,993.642
2011	11	115,208,526.547	539,067,561.897	743,161,561.793	760,696,342.55	87,837,491.679	1,047,981.671
2011	12	145,520,074.942	680,897,103.344	1,035,297,687.185	1,052,862,076.68	208,880,508.899	0.000
2012	1	158,020,983.209	761,422,529.468	1,233,591,569.453	1,214,977,952.49	314,148,056.777	0.000
2012	2	124,259,072.859	598,741,101.623	1,082,053,424.372	1,070,040,784.88	359,053,249.890	0.000
2012	3	119,297,058.865	574,831,686.745	955,529,250.024	945,646,395.63	252,783,760.522	8,616,743.893
2012	4	119,667,574.167	576,617,011.029	790,829,878.493	744,681,042.13	66,757,292.685	27,788,000.611
2012	5	112,008,565.634	539,712,154.901	737,936,642.056	723,657,308.62	50,590,878.910	35,625,042.611
2012	6	119,813,675.925	577,321,000.888	901,105,310.456	893,124,134.36	1,686,267.407	202,284,366.236
2012	7	128,126,712.637	617,377,285.265	1,233,109,542.132	1,215,282,155.58	158,875.924	487,446,668.306
2012	8	130,430,771.855	628,479,371.599	1,184,192,348.770	1,198,260,046.56	0.000	425,282,205.316
2012	9	132,171,292.128	636,866,051.148	979,001,369.137	942,094,552.35	1,091,284.182	208,872,741.680
2012	10	114,692,435.120	552,644,353.215	734,274,773.525	710,696,286.21	36,177,637.409	30,760,347.781
2012	11	117,219,501.800	564,820,998.776	819,085,337.903	799,154,387.77	134,034,653.089	3,010,184.238
2012	12	136,986,138.369	660,066,339.676	1,023,889,750.500	1,001,514,048.70	226,837,272.455	0.000
2013	1	138,453,725.895	748,254,805.428	1,243,061,235.140	1,214,942,085.08	356,352,703.817	0.000
2013	2	112,079,754.644	605,720,174.457	1,128,214,593.346	1,134,587,813.91	410,414,664.245	0.000
2013	3	108,888,930.118	588,475,786.344	1,064,455,493.139	1,091,217,289.65	367,090,776.677	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2013	4	107,570,870.722	581,352,509.090	938,015,296.082	935,730,649.74	249,091,916.270	0.000
2013	5	96,374,987.529	520,845,842.720	709,658,093.012	735,105,296.01	63,917,350.437	28,519,912.326
2013	6	104,225,952.893	563,275,344.151	826,011,637.077	799,977,333.75	6,576,515.014	151,933,825.019
2013	7	106,543,412.082	575,799,745.088	990,535,739.690	997,913,948.06	0.000	308,192,582.520
2013	8	112,502,294.037	608,003,732.588	964,210,860.864	954,792,503.24	0.000	243,704,834.239
2013	9	111,329,109.792	601,663,413.876	952,493,190.612	962,594,429.17	305,896.010	239,194,770.933
2013	10	100,106,076.066	541,010,016.050	738,117,923.003	742,848,782.25	10,262,387.977	86,739,442.910
2013	11	100,254,740.998	541,813,455.968	777,237,611.171	787,187,654.69	127,401,235.681	7,768,178.525
2013	12	120,379,509.042	650,575,096.723	1,090,143,639.141	1,098,703,351.25	319,189,033.376	0.000
2014	1	133,047,171.133	755,469,017.387	1,363,273,924.986	1,397,111,585.66	474,757,736.465	0.000
2014	2	105,404,287.431	598,507,076.665	1,286,462,918.028	1,292,194,502.82	582,551,553.932	0.000
2014	3	98,529,743.558	559,472,012.180	1,163,959,043.006	1,153,516,893.19	505,957,287.268	0.000
2014	4	94,296,628.360	535,435,519.324	890,480,874.296	898,404,068.91	260,748,726.612	0.000
2014	5	96,225,467.110	546,387,859.779	726,712,249.573	720,151,202.22	63,859,891.460	20,239,031.223
2014	6	97,772,539.773	555,172,454.406	821,809,170.102	817,030,693.29	12,971,182.072	155,892,993.850
2014	7	105,135,580.829	596,981,305.690	994,466,015.724	955,052,765.46	0.000	292,349,129.204
2014	8	103,905,295.288	589,995,493.053	880,414,049.625	860,465,247.71	0.000	186,513,261.285
2014	9	106,895,001.291	606,971,654.498	948,482,717.455	930,511,419.36	830,795.338	233,785,266.328
2014	10	94,282,324.283	535,354,297.849	676,998,351.933	684,307,912.46	23,062,615.685	24,299,114.115
2014	11	95,551,005.335	542,558,128.038	778,818,050.586	764,853,592.81	140,242,509.569	466,407.643
2014	12	116,381,257.045	660,836,552.579	1,110,567,205.609	1,116,787,413.42	333,349,395.985	0.000
2015	1	113,843,215.744	711,086,594.332	1,252,053,715.329	1,242,620,178.99	427,123,905.253	0.000
2015	2	88,557,124.046	553,144,808.236	1,154,986,989.208	1,143,773,825.06	513,285,056.926	0.000
2015	3	83,914,451.711	524,145,784.994	1,140,854,551.324	1,118,221,165.59	532,794,314.620	0.000
2015	4	83,942,149.434	524,318,790.296	826,788,616.230	832,491,138.85	218,527,676.500	0.000
2015	5	82,036,252.169	512,414,189.862	692,378,250.541	685,196,349.92	58,065,185.880	39,862,622.630
2015	6	83,887,757.496	523,979,047.799	778,224,422.880	778,631,130.65	5,856,784.432	164,500,833.154
2015	7	92,972,939.004	580,726,836.726	889,567,535.286	895,000,775.90	41,864.068	215,825,895.489
2015	8	92,813,673.886	579,732,036.201	976,057,185.322	971,906,079.07	0.000	303,511,475.235
2015	9	94,348,565.036	589,319,261.172	921,084,218.628	910,855,832.00	0.000	237,416,392.421
2015	10	82,699,842.553	516,559,102.873	688,739,526.594	710,581,491.69	11,176,951.027	78,303,630.140
2015	11	83,513,364.583	521,640,517.746	679,647,784.005	670,159,659.03	72,421,628.796	2,072,272.880
2015	12	104,840,503.783	654,853,926.043	962,078,793.216	941,868,865.62	202,384,363.390	0.000

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2016	1	106,635,545.072	697,654,050.468	1,113,179,349.418	1,104,782,673.75	308,889,753.879	0.000
2016	2	85,513,663.127	559,465,921.150	1,074,048,913.916	1,053,799,146.75	429,069,329.639	0.000
2016	3	79,408,268.451	519,521,891.954	892,394,665.609	890,847,862.62	293,464,505.205	0.000
2016	4	80,402,492.814	526,026,520.908	763,669,544.933	769,544,117.50	157,240,531.211	0.000
2016	5	76,233,636.833	498,752,132.630	640,968,031.360	653,378,542.33	63,608,617.749	2,373,644.147
2016	6	82,760,264.861	541,452,045.462	807,881,637.627	814,516,167.53	11,272,134.421	172,397,192.884
2016	7	87,969,635.986	575,533,916.224	952,829,237.663	983,451,672.82	0.000	289,325,685.453
2016	8	90,891,945.367	594,652,878.622	1,113,771,201.380	1,112,863,207.36	0.000	428,226,377.390
2016	9	90,113,480.093	589,559,835.289	1,001,708,478.479	1,019,460,491.29	0.000	322,035,163.097
2016	10	81,058,960.875	530,321,407.770	740,233,721.161	757,062,372.30	3,827,959.540	125,025,392.976
2016	11	78,085,554.905	510,868,150.256	672,563,248.359	658,408,576.19	62,624,387.643	20,985,155.555
2016	12	96,170,630.492	629,188,230.378	1,005,282,075.107	994,599,588.76	279,085,372.130	837,842.107
2017	1	102,021,043.889	691,714,442.752	1,214,528,352.800	1,192,338,328.23	420,792,866.160	0.000
2017	2	78,966,774.026	535,403,834.436	934,131,254.294	943,631,609.48	319,760,645.831	0.000
2017	3	75,291,081.804	510,482,217.286	830,007,654.335	831,195,351.09	244,234,355.245	0.000
2017	4	73,920,320.922	501,188,300.430	752,700,260.696	751,266,213.88	172,298,155.940	5,293,483.405
2017	5	70,435,632.441	477,561,710.671	627,885,263.488	634,798,535.61	44,914,358.682	34,973,561.694
2017	6	76,601,788.969	519,368,963.015	738,669,296.921	751,357,978.08	8,815,635.109	133,882,909.828
2017	7	84,495,312.136	572,887,960.376	950,732,714.503	945,008,229.94	0.000	293,349,441.992
2017	8	84,485,292.067	572,820,023.157	931,452,740.345	959,416,870.51	0.000	274,147,425.121
2017	9	86,459,818.553	586,207,540.437	804,129,021.627	810,189,291.52	0.000	131,461,662.636
2017	10	75,921,994.413	514,759,877.534	731,089,878.752	754,252,784.64	2,061,487.297	138,346,519.508
2017	11	74,155,628.136	502,783,710.472	714,297,364.587	705,255,103.73	122,489,417.742	14,868,608.237
2017	12	91,997,459.906	623,753,387.414	977,581,802.801	981,875,558.94	261,830,955.481	0.000
2018	1	99,838,592.436	693,190,553.506	1,325,727,848.854	1,280,620,437.65	532,698,702.912	0.000
2018	2	75,205,773.500	522,162,126.765	1,039,292,510.125	1,029,745,458.34	441,924,609.859	0.000
2018	3	72,426,380.260	502,864,487.527	880,034,367.593	894,667,193.36	304,743,499.806	0.000
2018	4	74,083,399.879	514,369,360.729	857,810,336.124	866,926,581.40	268,823,809.072	533,766.444
2018	5	70,434,714.651	489,036,129.656	681,345,736.031	687,187,443.53	92,261,867.206	29,613,024.517
2018	6	75,429,763.535	523,717,314.719	835,278,957.936	855,072,297.46	975,010.793	235,156,868.889
2018	7	81,047,499.171	562,721,883.793	1,020,406,192.396	1,040,131,574.87	0.000	376,636,809.432
2018	8	83,904,278.349	582,556,822.280	982,396,141.680	982,338,864.91	0.000	315,935,041.050
2018	9	82,607,512.763	573,553,233.263	980,609,965.774	984,976,662.13	0.000	324,449,219.748

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2018	10	72,500,782.689	503,381,071.946	757,809,701.851	755,760,285.01	20,201,429.819	161,726,417.397
2018	11	72,043,094.888	500,203,294.166	751,796,574.040	752,149,127.69	156,764,152.032	22,786,032.954
2018	12	88,338,013.358	613,340,742.100	1,012,821,471.391	1,017,152,634.96	311,142,715.933	0.000
2019	1	95,555,636.115	689,481,654.665	1,102,628,419.813	1,058,992,698.23	317,591,129.033	0.000
2019	2	72,449,470.852	522,759,128.333	1,045,288,075.915	0.00	450,079,476.729	0.000
2019	3	69,732,591.897	503,155,489.306	934,707,769.284		361,414,603.839	405,084.242
2019	4	68,732,687.195	495,940,677.324	769,672,065.451		201,620,299.700	3,378,401.232
2019	5	66,977,841.043	483,278,585.607	638,180,163.746		64,139,988.802	23,783,748.294
2019	6	71,419,223.437	515,325,378.516	723,723,250.191		8,976,763.745	128,001,884.493
2019	7	77,203,893.857	557,064,665.651	930,024,169.149		111,444.795	295,644,164.845
2019	8	78,294,156.127	564,931,452.630	953,568,354.555		0.000	310,342,745.798
2019	9	78,712,101.718	567,947,138.877	865,821,644.782		396,156.556	218,766,247.631
2019	10	68,962,386.479	497,598,072.417	654,165,054.056		22,049,433.268	65,555,161.892
2019	11	67,538,110.919	487,321,212.678	678,568,511.259		117,453,974.214	6,255,213.448
2019	12	84,249,525.691	607,902,419.367	972,340,284.276		280,107,531.545	80,807.673
2020	1	88,944,709.015	686,949,211.373	1,191,668,258.097		415,774,337.708	0.000
2020	2	69,618,581.664	537,687,180.049	1,051,174,848.712		443,869,086.999	0.000
2020	3	64,900,066.767	501,244,539.189	922,986,497.533		356,440,540.660	401,350.917
2020	4	63,968,127.178	494,046,863.543	760,191,800.978		198,829,797.668	3,347,012.589
2020	5	62,341,169.303	481,481,333.327	630,634,358.246		63,249,916.950	23,561,938.666
2020	6	66,517,706.789	513,738,104.572	715,913,244.035		8,851,801.874	126,805,630.799
2020	7	71,991,307.597	556,012,522.015	921,007,220.173		109,896.559	292,893,494.002
2020	8	73,046,504.466	564,162,154.126	944,691,958.640		0.000	307,483,300.048
2020	9	73,408,944.796	566,961,399.884	857,539,602.136		390,723.688	216,778,533.768
2020	10	64,221,438.025	496,003,266.443	646,947,316.034		21,751,113.242	64,971,498.324
2020	11	62,866,315.766	485,537,211.999	670,495,600.345		115,891,295.156	6,200,777.424
2020	12	78,440,254.752	605,819,859.753	960,463,339.659		276,123,178.008	80,047.146
2021	1	84,937,999.389	683,235,298.641	1,178,737,675.143		410,564,377.113	0.000
2021	2	66,405,185.054	534,158,642.398	1,038,912,882.616		438,349,055.163	0.000
2021	3	61,876,323.576	497,728,798.900	912,046,330.538		352,042,846.607	398,361.455
2021	4	60,990,803.043	490,605,733.961	751,310,727.001		196,391,820.058	3,322,369.939
2021	5	59,450,412.429	478,214,940.101	623,536,920.582		62,480,502.653	23,391,065.399
2021	6	63,481,369.125	510,639,672.515	708,772,453.929		8,745,429.757	125,905,982.531

Indiana Michigan Power Company - Indiana
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Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2021	7	68,789,169.754	553,335,247.807	913,100,011.328		108,594.598	290,866,999.168
2021	8	69,836,395.354	561,759,056.947	937,004,167.339		0.000	305,408,715.038
2021	9	70,162,313.317	564,380,718.133	850,283,112.014		386,220.938	215,353,859.626
2021	10	61,297,870.686	493,075,764.504	640,434,731.748		21,504,443.518	64,556,653.039
2021	11	59,977,738.963	482,456,717.687	663,189,278.949		114,592,685.960	6,162,136.339
2021	12	75,025,454.612	603,499,484.987	952,325,956.523		273,721,304.309	79,712.615
2022	1	82,616,367.504	680,544,748.446	1,170,732,106.551		407,570,990.600	0.000
2022	2	64,549,299.177	531,718,930.494	1,031,495,967.504		435,227,737.832	0.000
2022	3	60,137,120.113	495,374,010.205	905,493,700.676		349,585,125.400	397,444.959
2022	4	59,289,820.876	488,394,460.468	746,055,465.317		195,055,949.729	3,315,234.244
2022	5	57,804,636.004	476,160,386.331	619,367,364.695		62,059,994.622	23,342,347.738
2022	6	61,755,671.830	508,706,681.498	704,797,271.067		8,687,049.926	125,647,867.813
2022	7	66,969,101.976	551,651,834.072	909,003,856.840		107,872.983	290,275,047.808
2022	8	68,007,195.999	560,203,038.352	932,993,228.824		0.000	304,782,994.474
2022	9	68,304,092.690	562,648,697.612	846,234,125.098		383,633.737	214,897,701.059
2022	10	59,608,844.037	491,022,384.497	636,401,762.334		21,357,936.071	64,412,597.730
2022	11	58,294,413.039	480,194,879.733	658,435,176.314		113,798,241.979	6,147,641.564
2022	12	72,950,751.939	600,925,126.909	945,741,088.443		271,785,695.212	79,514.383
2023	1	80,981,910.008	677,847,961.066	1,163,372,579.466		404,542,708.393	0.000
2023	2	63,226,787.714	529,231,147.211	1,024,405,827.065		431,947,892.140	0.000
2023	3	58,888,428.431	492,917,506.369	899,136,730.109		346,934,163.656	396,631.652
2023	4	58,064,492.604	486,020,864.636	740,971,774.637		193,578,078.061	3,308,339.335
2023	5	56,621,912.613	473,945,946.848	615,456,343.891		61,594,122.717	23,294,361.714
2023	6	60,521,592.631	506,587,683.114	701,122,204.245		8,622,107.405	125,390,821.096
2023	7	65,677,490.865	549,744,421.514	905,213,316.522		107,071.927	289,684,332.216
2023	8	66,713,834.418	558,418,992.965	929,301,947.543		0.000	304,169,120.160
2023	9	66,991,044.110	560,739,338.636	842,584,955.598		380,829.483	214,473,743.369
2023	10	58,413,068.716	488,938,573.130	632,848,235.733		21,204,918.186	64,291,675.701
2023	11	57,106,723.618	478,003,990.818	654,246,154.223		112,998,775.154	6,136,664.632
2023	12	71,476,852.818	598,287,184.646	939,617,108.321		269,773,724.315	79,346.542
2024	1	79,650,255.192	675,426,394.294	1,156,622,894.601		401,546,245.114	0.000
2024	2	62,158,945.365	527,101,793.200	1,018,067,081.409		428,806,342.844	0.000
2024	3	57,884,613.006	490,855,871.756	893,553,676.945		344,417,012.625	396,179.557

Indiana Michigan Power Company - Indiana
 Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2024	4	57,079,109.223	484,025,278.251	736,569,588.121		192,160,794.802	3,304,405.845
2024	5	55,668,618.275	472,064,452.597	612,138,643.562		61,139,714.815	23,265,857.876
2024	6	59,526,838.574	504,781,784.371	698,102,975.947		8,558,138.857	125,236,214.146
2024	7	64,635,474.162	548,102,515.823	902,164,787.769		106,273.062	289,320,524.721
2024	8	65,671,184.818	556,885,241.150	926,359,112.283		0.000	303,802,686.316
2024	9	65,929,834.285	559,078,563.398	839,607,085.086		378,034.498	214,220,652.905
2024	10	57,439,059.383	487,077,620.494	629,783,733.090		21,050,021.013	64,217,032.200
2024	11	56,132,959.511	476,002,020.987	650,443,763.309		112,179,035.773	6,129,747.038
2024	12	70,279,306.443	595,961,663.015	934,122,053.379		267,801,829.754	79,254.168
2025	1	78,762,663.779	673,082,164.064	1,150,516,099.878		398,671,272.035	0.000
2025	2	61,440,566.930	525,052,706.021	1,012,261,211.759		425,767,938.809	0.000
2025	3	57,211,485.286	488,912,239.354	888,530,847.882		342,010,982.102	396,141.140
2025	4	56,429,152.246	482,226,655.219	732,810,926.930		190,850,645.195	3,304,474.269
2025	5	55,048,043.956	470,424,116.907	609,468,982.282		60,729,055.935	23,267,765.484
2025	6	58,891,213.112	503,266,690.891	695,918,248.315		8,502,008.729	125,258,335.582
2025	7	63,980,891.830	546,761,562.723	900,244,197.914		105,588.552	289,396,154.809
2025	8	65,013,663.935	555,587,324.189	924,475,862.009		0.000	303,874,873.886
2025	9	65,256,251.965	557,660,408.932	837,563,488.203		375,581.216	214,271,246.090
2025	10	56,809,453.335	485,476,594.561	627,429,492.186		20,912,680.177	64,230,764.113
2025	11	55,493,950.026	474,234,696.793	647,299,790.024		111,440,367.635	6,130,775.571
2025	12	69,494,461.947	593,878,883.640	929,482,704.940		266,030,095.030	79,264.324
2026	1	78,070,831.596	671,234,509.490	1,145,445,251.050		396,139,909.963	0.000
2026	2	60,878,992.016	523,423,146.756	1,007,354,859.600		423,052,720.827	0.000
2026	3	56,682,978.027	487,346,812.812	884,250,446.692		339,824,157.410	396,498.443
2026	4	55,915,048.617	480,744,337.722	729,594,054.904		189,627,318.838	3,307,349.727
2026	5	54,556,412.339	469,063,104.962	607,247,066.541		60,339,992.842	23,287,556.398
2026	6	58,383,379.394	501,966,460.820	694,154,081.450		8,446,976.965	125,357,264.271
2026	7	63,455,351.953	545,574,078.971	898,750,153.482		104,900.751	289,615,821.806
2026	8	64,487,855.345	554,451,298.458	923,050,499.237		0.000	304,111,345.435
2026	9	64,716,676.928	556,418,652.209	835,951,731.233		373,152.140	214,443,249.956
2026	10	56,303,337.656	484,082,754.868	625,448,726.070		20,778,087.272	64,284,546.274
2026	11	54,983,330.219	472,733,643.735	644,589,234.349		110,735,805.440	6,136,454.954
2026	12	68,885,497.866	592,261,186.738	925,685,057.840		264,459,009.506	79,363.730

Indiana Michigan Power Company - Indiana
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Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2027	1	77,507,811.531	669,952,463.977	1,141,324,360.327		393,864,084.819	0.000
2027	2	60,428,023.834	522,320,301.160	1,003,379,085.275		420,630,760.281	0.000
2027	3	56,263,931.105	486,327,229.895	880,884,916.506		337,896,455.452	397,300.054
2027	4	55,509,919.838	479,809,800.278	727,178,007.935		188,544,272.650	3,314,015.168
2027	5	54,173,065.612	468,254,464.560	605,759,349.616		59,996,652.594	23,335,166.850
2027	6	57,992,641.388	501,269,642.672	693,280,304.286		8,399,198.419	125,618,821.806
2027	7	63,051,883.800	545,000,098.391	898,387,131.982		104,311.258	290,230,838.533
2027	8	64,082,818.656	553,911,165.974	922,766,088.696		0.000	304,772,104.066
2027	9	64,305,046.847	555,832,034.609	835,439,825.537		371,123.895	214,931,620.186
2027	10	55,919,306.382	483,348,405.203	624,367,592.223		20,666,344.441	64,433,536.196
2027	11	54,592,376.283	471,878,850.434	642,769,727.294		110,147,516.253	6,150,984.325
2027	12	68,393,552.531	591,171,755.890	922,673,999.305		263,029,144.839	79,546.046
2028	1	77,007,685.972	669,223,560.135	1,138,045,551.715		391,814,305.608	0.000
2028	2	60,033,314.488	521,710,371.383	1,000,196,577.287		418,452,891.416	0.000
2028	3	55,899,530.848	485,786,354.592	878,238,259.156		336,153,821.909	398,551.807
2028	4	55,161,502.419	479,372,630.995	725,435,357.220		187,576,753.303	3,324,470.503
2028	5	53,844,623.345	467,928,494.073	604,869,350.000		59,687,448.145	23,408,784.437
2028	6	57,657,138.208	501,060,573.522	693,088,303.680		8,355,910.013	126,014,681.936
2028	7	62,701,362.187	544,896,633.346	898,845,574.829		103,773.177	291,143,806.120
2028	8	63,726,765.053	553,807,740.697	923,263,624.796		0.000	305,729,119.046
2028	9	63,938,449.765	555,647,354.431	835,560,286.327		369,204.310	215,605,277.821
2028	10	55,577,822.530	482,990,597.477	623,762,806.353		20,559,289.603	64,635,096.742
2028	11	54,241,316.373	471,375,894.382	641,363,388.317		109,576,000.413	6,170,177.149
2028	12	67,962,472.718	590,617,512.699	920,393,612.117		261,733,816.080	79,810.620
2029	1	76,791,671.834	670,638,684.553	1,137,184,908.568		389,754,552.182	0.000
2029	2	59,883,754.181	522,978,093.471	999,144,387.239		416,282,539.587	0.000
2029	3	55,772,388.106	487,072,622.599	877,678,901.269		334,433,708.799	400,181.765
2029	4	55,047,233.656	480,739,688.118	725,756,916.532		186,631,738.427	3,338,256.331
2029	5	53,739,019.602	469,314,764.923	605,952,424.346		59,391,433.022	23,507,206.799
2029	6	57,540,990.256	502,518,217.037	694,926,124.907		8,315,118.412	126,551,799.201
2029	7	62,568,186.607	546,421,836.626	901,494,162.256		103,274.317	292,400,864.705
2029	8	63,588,063.155	555,328,644.492	925,982,242.393		0.000	307,065,534.745
2029	9	63,808,156.719	557,250,770.345	837,986,010.632		367,484.266	216,559,599.302

Indiana Michigan Power Company - Indiana
 Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2029	10	55,481,285.410	484,530,358.256	625,401,337.177		20,465,053.310	64,924,640.200
2029	11	54,150,407.158	472,907,503.604	642,338,778.094		109,082,686.673	6,198,180.659
2029	12	67,819,721.887	592,284,657.786	920,720,716.451		260,536,168.811	80,167.967
2030	1	73,530,086.960	672,264,584.358	1,133,696,063.248		387,901,391.931	0.000
2030	2	57,335,422.726	524,201,394.583	995,839,963.403		414,303,146.094	0.000
2030	3	53,404,030.558	488,257,798.826	874,906,992.131		332,843,094.085	402,068.661
2030	4	52,724,460.224	482,044,681.350	723,866,467.278		185,743,353.029	3,353,972.675
2030	5	51,492,358.123	470,779,923.740	604,998,693.018		59,108,643.202	23,617,767.953
2030	6	55,163,886.661	504,347,660.541	694,933,813.099		8,275,533.853	127,146,732.044
2030	7	59,999,919.298	548,562,125.744	902,440,412.384		102,783.017	293,775,584.324
2030	8	60,974,024.020	557,468,086.998	926,952,067.324		0.000	308,509,956.306
2030	9	61,169,169.152	559,252,243.207	838,366,281.111		365,740.694	217,579,128.059
2030	10	53,155,027.321	485,981,233.345	624,734,884.800		20,368,098.584	65,230,525.550
2030	11	51,853,537.878	474,082,087.084	640,729,734.033		108,566,704.082	6,227,404.988
2030	12	64,946,961.147	593,791,516.453	918,174,755.397		259,355,719.190	80,558.608
2031	1	70,616,013.011	674,299,860.081	1,131,070,199.962		386,154,326.869	0.000
2031	2	55,066,072.115	525,816,215.602	993,330,143.940		412,447,856.223	0.000
2031	3	51,298,584.982	489,841,145.100	872,906,093.125		331,361,845.834	404,517.209
2031	4	50,660,973.734	483,752,707.685	722,710,228.669		184,922,075.956	3,374,471.295
2031	5	49,496,714.205	472,635,398.677	604,743,530.737		58,848,847.990	23,762,569.866
2031	6	53,049,481.117	506,560,143.641	695,777,716.233		8,239,379.951	127,928,711.525
2031	7	57,709,412.045	551,057,002.622	904,456,304.663		102,336.563	295,587,553.434
2031	8	58,640,583.611	559,948,595.757	929,007,957.171		0.000	310,418,777.803
2031	9	58,817,183.650	561,634,918.404	839,746,403.344		364,172.633	218,930,128.657
2031	10	51,091,375.898	487,862,542.085	624,872,435.925		20,281,404.743	65,637,113.198
2031	11	49,820,036.627	475,722,747.497	639,917,496.051		108,108,323.108	6,266,388.820
2031	12	62,379,654.720	595,652,326.655	916,317,788.255		258,204,757.890	81,048.991
2032	1	68,151,816.539	676,663,914.512	1,129,091,251.185		384,275,520.134	0.000
2032	2	53,152,899.564	527,743,072.936	991,339,252.514		410,443,280.014	0.000
2032	3	49,525,622.226	491,728,659.714	871,414,671.042		329,753,523.338	406,865.764
2032	4	48,922,525.886	485,740,653.069	722,081,101.624		184,023,863.268	3,394,059.402
2032	5	47,814,256.970	474,736,902.604	605,014,659.192		58,562,952.382	23,900,547.235
2032	6	51,262,749.786	508,976,204.893	697,110,235.096		8,199,355.618	128,671,924.798

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2032	7	55,767,393.068	553,701,785.390	906,876,976.540		101,839.581	297,305,958.501
2032	8	56,658,773.136	562,552,095.723	931,435,300.188		0.000	312,224,431.330
2032	9	56,820,650.925	564,159,343.544	841,546,590.297		362,404.597	220,204,191.231
2032	10	49,344,671.352	489,932,039.570	625,478,729.557		20,182,907.299	66,019,111.336
2032	11	48,099,294.439	477,566,974.926	639,552,132.110		107,583,009.027	6,302,853.718
2032	12	60,211,961.102	597,830,892.392	915,089,013.596		256,964,635.691	81,524.410
2033	1	66,201,629.907	679,256,970.329	1,127,969,654.544		382,511,054.307	0.000
2033	2	51,645,005.790	529,899,795.738	990,097,684.507		408,552,882.979	0.000
2033	3	48,130,686.730	493,841,382.663	870,611,218.471		328,229,899.892	409,249.186
2033	4	47,555,771.521	487,942,507.312	722,083,898.214		183,171,710.468	3,413,908.913
2033	5	46,491,481.686	477,022,439.488	605,845,178.759		58,291,165.910	24,040,091.675
2033	6	49,854,936.536	511,532,921.395	698,970,960.816		8,161,215.068	129,421,887.816
2033	7	54,231,874.308	556,442,170.518	909,811,136.179		101,364.715	299,035,726.638
2033	8	55,088,911.765	565,235,740.516	934,362,039.373		0.000	314,037,387.093
2033	9	55,240,247.840	566,788,513.221	843,869,639.608		360,705.306	221,480,173.241
2033	10	47,967,953.190	492,171,667.112	626,628,525.424		20,088,006.847	66,400,898.275
2033	11	46,743,924.864	479,612,614.206	639,771,480.652		107,075,712.409	6,339,229.174
2033	12	58,486,914.322	600,100,696.642	914,365,955.538		255,696,364.245	81,980.329
2034	1	64,799,664.905	681,927,119.027	1,127,390,180.468		380,663,396.537	0.000
2034	2	50,569,155.536	532,170,630.773	989,316,792.326		406,577,006.018	0.000
2034	3	47,139,476.612	496,077,989.380	870,269,649.983		326,640,653.385	411,530.605
2034	4	46,586,993.537	490,263,866.849	722,568,001.506		182,284,208.308	3,432,932.813
2034	5	45,555,186.613	479,405,521.763	607,143,382.213		58,008,636.395	24,174,037.443
2034	6	48,856,377.145	514,146,000.004	701,267,105.394		8,121,657.572	130,143,070.674
2034	7	53,137,482.182	559,198,727.180	913,139,807.682		100,873.573	300,702,724.747
2034	8	53,967,547.113	567,934,015.980	937,691,810.505		0.000	315,790,247.412
2034	9	54,113,517.346	569,470,151.397	846,660,878.480		358,962.799	222,718,246.938
2034	10	46,994,205.226	494,549,208.355	628,307,438.084		19,991,183.210	66,772,841.293
2034	11	45,786,743.997	481,842,343.926	640,564,847.477		106,560,938.131	6,374,821.422
2034	12	57,284,027.533	602,835,399.214	914,797,293.813		254,595,392.947	82,474.119
2035	1	63,560,866.410	685,096,830.577	1,127,891,584.437		379,233,887.451	0.000
2035	2	49,626,317.589	534,901,973.714	989,587,159.814		405,058,868.511	0.000
2035	3	46,275,105.836	498,780,619.795	870,898,049.321		325,428,250.971	414,072.718

Indiana Michigan Power Company - Indiana
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Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2035	4	45,744,143.386	493,057,590.645	723,867,306.357		181,611,368.443	3,454,203.882
2035	5	44,741,918.926	482,255,019.185	609,116,889.346		57,795,682.150	24,324,269.085
2035	6	47,987,289.971	517,235,558.985	704,269,129.177		8,092,006.195	130,954,274.026
2035	7	52,179,333.515	562,419,898.151	917,282,247.922		100,507.270	302,582,508.987
2035	8	52,982,466.109	571,076,539.041	941,828,948.164		0.000	317,769,943.013
2035	9	53,125,255.883	572,615,612.171	850,216,844.366		357,672.681	224,118,303.631
2035	10	46,146,858.862	497,398,297.622	630,658,392.335		19,919,652.196	67,193,583.655
2035	11	44,954,803.770	484,549,618.688	642,100,766.040		106,181,264.685	6,415,078.896
2035	12	56,217,375.567	605,944,317.625	915,962,520.690		253,717,824.762	83,002.736
2036	1	62,520,691.520	688,599,594.093	1,129,061,704.605		377,941,418.992	0.000
2036	2	48,841,649.039	537,939,342.729	990,466,428.323		403,685,436.555	0.000
2036	3	45,558,984.844	501,784,252.672	872,090,401.817		324,330,380.202	416,784.100
2036	4	45,046,780.913	496,142,865.633	725,666,082.134		180,999,601.923	3,476,833.666
2036	5	44,069,469.992	485,378,814.766	611,533,210.837		57,601,238.830	24,483,687.249
2036	6	47,266,306.124	520,588,599.072	707,732,535.080		8,064,813.315	131,812,816.568
2036	7	51,378,379.286	565,878,755.682	921,922,946.569		100,169.501	304,565,642.101
2036	8	52,155,441.132	574,437,273.803	946,443,727.737		0.000	319,851,012.802
2036	9	52,295,999.734	575,985,378.828	854,221,675.750		356,467.106	225,583,830.082
2036	10	45,441,221.422	500,487,212.564	633,412,940.264		19,852,333.541	67,632,172.736
2036	11	44,262,144.176	487,500,918.058	644,041,330.775		105,821,397.521	6,456,871.019
2036	12	55,297,836.954	609,047,455.407	917,143,452.068		252,714,654.391	83,505.317
2037	1	61,616,566.116	691,884,225.082	1,130,006,200.734		376,505,409.536	0.000
2037	2	48,159,812.105	540,780,124.222	991,078,732.420		402,138,796.093	0.000
2037	3	44,936,052.196	504,580,953.002	873,013,211.514		323,077,002.893	419,203.423
2037	4	44,439,906.071	499,009,794.167	727,242,181.772		180,295,551.634	3,496,929.900
2037	5	43,483,824.035	488,274,076.149	613,758,332.314		57,375,800.198	24,624,631.933
2037	6	46,637,364.414	523,684,761.601	710,923,832.830		8,033,060.829	132,568,645.986
2037	7	50,679,084.639	569,068,700.411	926,153,703.529		99,773.082	306,306,145.397
2037	8	51,432,670.752	577,530,618.635	950,635,418.069		0.000	321,672,128.682
2037	9	51,570,810.872	579,081,775.669	857,871,088.334		355,040.897	226,863,460.896
2037	10	44,824,141.544	503,324,323.182	635,935,309.054		19,772,471.225	68,014,373.103
2037	11	43,656,022.252	490,207,667.021	645,750,435.987		105,393,515.392	6,493,231.322
2037	12	54,528,158.322	612,289,436.811	918,716,960.714		251,815,357.579	84,008.002

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2038	1	60,853,388.508	695,318,073.266	1,131,446,531.971		375,275,070.196	0.000
2038	2	47,589,977.566	543,768,758.311	992,180,162.068		400,821,426.191	0.000
2038	3	44,418,632.453	507,532,590.889	874,388,872.997		322,015,906.963	421,742.693
2038	4	43,937,163.984	502,031,274.758	729,188,025.188		179,701,515.939	3,518,070.507
2038	5	42,999,402.539	491,316,300.667	616,275,020.231		57,186,128.191	24,773,188.834
2038	6	46,115,639.532	526,922,796.130	714,411,721.722		8,006,424.421	133,366,861.638
2038	7	50,094,509.696	572,385,841.069	930,726,563.645		99,441.201	308,146,771.679
2038	8	50,826,360.759	580,748,058.580	955,176,351.710		0.000	323,601,932.371
2038	9	50,964,275.210	582,323,885.542	861,864,767.278		353,854.496	228,222,752.030
2038	10	44,313,726.371	506,333,921.489	638,775,367.203		19,706,280.971	68,421,438.371
2038	11	43,156,241.260	493,108,358.590	647,836,871.067		105,040,212.720	6,532,058.498
2038	12	53,877,041.997	615,605,506.171	920,569,228.517		251,002,161.826	84,518.523
2039	1	60,175,836.496	698,754,312.356	1,133,183,186.165		374,253,037.313	0.000
2039	2	47,086,928.798	546,767,547.720	993,582,560.612		399,728,084.094	0.000
2039	3	43,963,414.698	510,497,691.342	876,022,297.443		321,136,920.980	424,270.423
2039	4	43,495,749.086	505,067,216.560	731,313,141.830		179,211,020.048	3,539,156.135
2039	5	42,574,665.985	494,371,714.401	618,898,163.031		57,030,096.266	24,921,686.379
2039	6	45,657,566.812	530,169,974.511	717,978,800.049		7,984,603.381	134,166,655.345
2039	7	49,579,248.986	575,708,059.070	935,382,415.656		99,170.623	309,995,936.978
2039	8	50,290,923.388	583,971,933.517	959,808,692.312		0.000	325,545,835.407
2039	9	50,429,633.064	585,582,612.983	865,960,603.031		352,896.853	229,595,460.132
2039	10	43,867,060.083	509,378,833.567	641,732,591.487		19,653,125.644	68,833,572.194
2039	11	42,719,722.187	496,056,088.935	650,105,062.906		104,757,793.140	6,571,458.644
2039	12	53,309,674.999	619,025,300.936	922,811,213.688		250,391,192.005	85,045.748
2040	1	57,505,091.502	701,997,962.627	1,132,992,051.217		373,488,997.088	0.000
2040	2	45,010,757.534	549,472,390.355	993,402,666.578		398,919,518.690	0.000
2040	3	42,036,325.578	513,161,776.485	876,118,429.664		320,493,452.385	426,875.216
2040	4	41,601,236.250	507,850,389.021	731,865,861.129		178,853,328.939	3,560,906.920
2040	5	40,736,456.744	497,293,524.660	620,021,617.307		56,916,658.430	25,074,977.473
2040	6	43,701,642.050	533,491,259.319	720,153,699.091		7,968,745.326	134,992,052.396
2040	7	47,452,537.490	579,280,612.713	938,734,265.343		98,973.585	311,902,141.555
2040	8	48,122,771.692	587,462,549.859	963,130,756.059		0.000	327,545,434.508
2040	9	48,246,150.836	588,968,710.546	868,570,542.595		352,191.660	231,003,489.554

Indiana Michigan Power Company - Indiana
 Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2040	10	41,960,986.830	512,242,072.744	643,071,605.142		19,613,667.399	69,254,878.170
2040	11	40,848,205.412	498,657,705.387	650,663,985.221		104,546,472.607	6,611,601.815
2040	12	50,923,099.359	621,647,771.818	922,303,568.934		249,647,198.198	85,499.560
2041	1	55,241,319.078	705,208,595.263	1,132,863,195.951		372,413,281.609	0.000
2041	2	43,252,627.708	552,161,413.534	993,170,772.219		397,756,730.977	0.000
2041	3	40,404,244.190	515,799,057.004	876,180,009.737		319,547,604.265	429,104.278
2041	4	39,996,312.566	510,591,417.275	732,487,528.066		178,320,391.266	3,579,406.960
2041	5	39,178,016.835	500,145,084.853	621,273,257.918		56,745,528.253	25,204,627.976
2041	6	42,041,073.999	536,694,764.591	722,367,438.444		7,944,588.626	135,687,011.228
2041	7	45,645,031.385	582,702,748.613	941,948,173.300		98,671.352	313,501,721.951
2041	8	46,279,113.437	590,797,416.170	966,295,200.336		0.000	329,218,670.729
2041	9	46,389,840.749	592,210,956.860	871,131,144.035		351,100.757	232,179,245.669
2041	10	40,342,870.702	515,015,565.367	644,517,011.660		19,552,499.340	69,606,076.251
2041	11	39,260,090.995	501,192,840.483	651,316,303.930		104,218,356.616	6,645,015.836
2041	12	48,935,565.894	624,709,588.012	922,685,450.042		248,954,339.548	85,956.589
2042	1	53,386,562.982	708,507,806.432	1,133,410,290.708		371,515,921.293	0.000
2042	2	41,817,019.294	554,965,200.170	993,578,718.518		396,796,499.054	0.000
2042	3	39,074,228.739	518,564,869.990	876,846,268.908		318,775,781.014	431,389.166
2042	4	38,689,405.458	513,457,774.055	733,635,266.025		177,889,618.647	3,598,467.866
2042	5	37,909,248.965	503,104,102.005	622,960,803.932		56,608,546.811	25,338,906.150
2042	6	40,687,377.238	539,973,408.776	724,996,754.164		7,925,444.422	136,410,523.728
2042	7	44,167,953.447	586,165,095.932	945,606,651.245		98,434.110	315,175,167.756
2042	8	44,771,334.534	594,172,732.796	969,923,102.036		0.000	330,979,034.706
2042	9	44,873,996.745	595,535,191.332	874,182,521.165		350,263.065	233,423,070.023
2042	10	39,027,449.011	517,944,043.318	646,457,399.615		19,506,078.407	69,979,828.879
2042	11	37,971,276.980	503,927,292.899	652,551,634.579		103,972,276.684	6,680,788.015
2042	12	47,310,052.722	627,864,762.301	923,648,789.255		248,387,548.739	86,425.493
2043	1	51,963,549.220	711,906,001.758	1,134,653,322.085		370,783,771.107	0.000
2043	2	40,721,619.037	557,890,394.877	994,631,211.326		396,019,197.413	0.000
2043	3	38,062,197.986	521,456,051.270	878,105,946.948		318,153,935.182	433,762.511
2043	4	37,696,187.038	516,441,663.408	735,299,955.765		177,543,816.708	3,618,288.610
2043	5	36,945,370.682	506,155,401.625	625,078,207.283		56,498,825.014	25,478,609.963
2043	6	39,656,675.099	543,300,552.720	728,030,759.578		7,910,129.038	137,163,402.721

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2043	7	43,038,831.001	589,636,438.588	949,690,564.578		98,244.592	316,917,050.397
2043	8	43,616,243.076	597,547,043.765	973,973,840.794		0.000	332,810,553.953
2043	9	43,714,085.475	598,887,494.760	877,667,505.968		349,592.856	234,716,332.877
2043	10	38,026,222.108	520,963,178.025	648,826,139.809		19,468,833.397	70,367,906.279
2043	11	36,991,206.102	506,783,351.628	654,266,211.646		103,773,809.131	6,717,844.785
2043	12	46,063,448.206	631,074,007.295	925,119,616.808		247,895,261.590	86,899.717
2044	1	51,012,110.840	715,396,412.275	1,136,628,510.185		370,219,987.071	0.000
2044	2	39,997,576.765	560,928,031.527	996,346,440.208		395,420,831.917	0.000
2044	3	37,397,546.769	524,465,079.879	879,977,000.698		317,678,192.701	436,181.350
2044	4	37,045,749.518	519,531,457.516	737,495,784.987		177,280,070.799	3,638,507.154
2044	5	36,315,181.647	509,285,936.891	627,637,862.521		56,415,472.796	25,621,271.187
2044	6	38,980,185.314	546,660,082.567	731,471,049.292		7,898,508.554	137,932,272.857
2044	7	42,291,207.429	593,094,023.500	954,177,320.533		98,100.492	318,693,989.112
2044	8	42,847,841.701	600,900,290.577	978,425,409.004		0.000	334,677,276.726
2044	9	42,944,223.069	602,251,947.736	881,578,889.046		349,082.820	236,033,635.422
2044	10	37,369,257.134	524,068,344.614	651,641,462.690		19,440,571.314	70,763,289.629
2044	11	36,349,434.617	509,766,302.255	656,495,487.703		103,624,102.035	6,755,648.796
2044	12	45,230,333.869	634,312,480.770	927,094,726.962		247,464,543.975	87,368.348
2045	1	50,306,579.855	718,811,423.831	1,138,658,803.659		369,540,799.974	0.000
2045	2	39,465,600.210	563,908,823.879	998,066,004.850		394,691,580.761	0.000
2045	3	36,911,265.875	527,410,920.312	881,849,020.576		317,088,364.273	438,470.116
2045	4	36,570,965.403	522,548,497.395	739,727,132.690		176,950,080.076	3,657,589.815
2045	5	35,855,513.025	512,325,672.781	630,246,981.380		56,310,206.076	25,755,589.499
2045	6	38,484,872.278	549,895,578.633	734,919,588.412		7,883,748.277	138,655,389.223
2045	7	41,739,965.341	596,406,354.873	958,609,825.701		97,917.090	320,365,588.397
2045	8	42,278,892.178	604,106,873.730	982,819,080.874		0.000	336,433,314.966
2045	9	42,374,765.345	605,476,768.640	885,471,936.526		348,428.117	237,271,974.426
2045	10	36,887,255.633	527,067,847.173	654,493,508.483		19,403,999.643	71,134,406.034
2045	11	35,878,672.458	512,656,589.040	658,754,780.250		103,428,459.465	6,791,059.287
2045	12	44,618,894.805	637,542,273.739	929,238,877.559		246,989,884.595	87,824.420
2046	1	49,712,494.325	722,197,279.879	1,140,851,588.197		368,941,813.992	0.000
2046	2	39,020,655.557	566,871,803.261	999,939,966.382		394,047,507.564	0.000
2046	3	36,506,040.510	530,340,782.809	883,854,318.873		316,566,746.130	440,749.423

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2046	4	36,175,758.167	525,542,612.589	742,051,169.818		176,656,240.996	3,676,558.066
2046	5	35,472,993.456	515,333,212.124	632,910,837.514		56,215,805.111	25,888,826.823
2046	6	38,071,577.317	553,084,087.863	738,397,176.244		7,870,418.163	139,371,092.900
2046	7	41,277,517.607	599,658,322.134	963,049,204.935		97,750.129	322,015,615.065
2046	8	41,800,181.868	607,251,316.859	987,214,033.018		0.000	338,162,534.291
2046	9	41,896,030.881	608,643,761.516	889,376,560.580		347,824.403	238,488,943.780
2046	10	36,484,374.371	530,026,028.400	657,378,872.348		19,370,080.987	71,498,388.590
2046	11	35,485,462.888	515,514,361.544	661,071,688.971		103,246,134.597	6,825,729.943
2046	12	44,105,438.451	640,740,886.362	931,486,976.418		246,552,379.445	88,272.159
2047	1	49,225,273.622	725,599,457.120	1,143,206,018.918		368,381,288.176	0.000
2047	2	38,659,814.603	569,860,529.445	1,001,966,751.479		393,446,407.431	0.000
2047	3	36,179,631.828	533,301,681.873	886,006,290.110		316,081,967.319	443,009.090
2047	4	35,858,630.544	528,569,999.537	744,508,490.392		176,384,475.173	3,695,385.138
2047	5	35,166,805.650	518,372,234.641	635,689,205.824		56,128,925.968	26,021,239.565
2047	6	37,739,632.702	556,296,694.469	741,977,472.409		7,858,193.003	140,082,952.236
2047	7	40,903,136.396	602,927,955.078	967,586,676.233		97,597.494	323,657,987.266
2047	8	41,410,953.639	610,413,376.468	991,708,635.412		0.000	339,884,305.304
2047	9	41,507,717.167	611,839,708.065	893,395,714.372		347,274.426	239,701,014.715
2047	10	36,161,389.592	533,032,784.303	660,394,397.974		19,339,225.581	71,860,998.498
2047	11	35,170,778.479	518,430,795.667	663,542,117.669		103,080,280.645	6,860,262.878
2047	12	43,689,391.598	643,998,427.890	933,927,945.637		246,151,408.927	88,717.223
2048	1	48,807,032.422	729,005,980.901	1,145,638,109.067		367,825,095.744	0.000
2048	2	38,352,753.552	572,855,700.007	1,004,054,979.594		392,846,526.035	0.000
2048	3	35,903,093.898	536,266,371.579	888,209,643.896		315,595,007.034	445,171.385
2048	4	35,590,308.203	531,594,449.705	747,006,386.668		176,108,288.659	3,713,340.100
2048	5	34,907,646.765	521,397,880.757	638,492,062.630		56,039,504.202	26,147,030.906
2048	6	37,457,411.724	559,482,431.554	745,541,820.302		7,845,451.843	140,756,525.181
2048	7	40,582,356.870	606,158,158.140	972,043,077.900		97,436.279	325,205,126.611
2048	8	41,075,867.241	613,529,473.191	996,104,099.095		0.000	341,498,758.662
2048	9	41,173,240.387	614,983,886.670	897,335,835.737		346,677.799	240,832,030.880
2048	10	35,884,687.943	535,991,451.129	663,379,281.468		19,305,341.013	72,197,801.384
2048	11	34,900,895.401	521,297,039.048	665,986,169.680		102,896,042.130	6,892,193.100
2048	12	43,329,342.764	647,188,498.387	936,309,451.215		245,702,482.882	89,127.182

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2049	1	48,437,452.085	732,444,793.005	1,148,194,644.869		367,312,399.778	0.000
2049	2	38,083,692.403	575,880,873.122	1,006,256,463.878		392,291,898.353	0.000
2049	3	35,661,864.351	539,259,307.176	890,511,927.130		315,143,488.238	447,267.365
2049	4	35,356,666.498	534,644,271.315	749,583,078.709		175,851,408.874	3,730,732.022
2049	5	34,682,114.534	524,444,063.576	641,351,054.225		55,956,084.718	26,268,791.396
2049	6	37,210,860.654	562,682,386.369	749,134,839.368		7,833,532.340	141,408,060.006
2049	7	40,300,099.988	609,396,182.567	976,494,172.642		97,285.053	326,700,605.034
2049	8	40,779,852.607	616,650,740.611	1,000,488,804.792		0.000	343,058,211.573
2049	9	40,878,052.964	618,135,672.965	901,283,585.021		346,115.271	241,923,743.822
2049	10	35,642,331.434	538,963,941.033	666,402,263.749		19,273,318.078	72,522,673.205
2049	11	34,664,644.790	524,179,895.606	668,489,043.646		102,721,532.798	6,922,970.453
2049	12	43,011,282.403	650,393,207.737	938,770,044.670		245,276,032.557	89,521.974
2050	1	48,132,535.469	735,956,483.561	1,150,934,409.020		366,845,389.989	0.000
2050	2	37,865,638.578	578,973,493.591	1,008,624,500.551		391,785,368.381	0.000
2050	3	35,468,324.964	542,318,069.552	892,965,858.540		314,730,056.417	449,407.608
2050	4	35,170,023.836	537,756,983.225	752,290,975.433		175,615,481.598	3,748,486.774
2050	5	34,502,289.638	527,547,188.383	644,321,777.746		55,879,237.695	26,393,062.029
2050	6	37,012,747.837	565,932,616.665	752,840,754.709		7,822,519.917	142,072,870.290
2050	7	40,069,811.641	612,675,758.407	981,068,926.547		97,144.934	328,226,211.566
2050	8	40,536,372.647	619,809,573.277	1,004,994,675.777		0.000	344,648,729.852
2050	9	40,635,870.096	621,330,909.970	905,349,318.743		345,591.120	243,036,947.557
2050	10	35,446,787.677	541,988,759.948	669,532,810.311		19,243,400.025	72,853,862.661
2050	11	34,474,355.193	527,120,064.910	671,106,826.190		102,558,067.303	6,954,338.784
2050	12	42,750,615.817	653,665,812.117	941,385,411.229		244,879,058.096	89,925.199
2051	1	47,703,372.311	739,370,530.371	1,154,796,101.154		367,722,198.472	0.000
2051	2	37,548,609.871	581,978,469.242	1,012,246,116.657		392,719,037.543	0.000
2051	3	35,181,862.899	545,295,465.935	896,406,989.870		315,477,637.475	452,023.561
2051	4	34,891,696.387	540,798,078.073	755,489,685.705		176,029,667.172	3,770,244.073
2051	5	34,233,257.445	530,592,712.569	647,381,713.938		56,009,983.247	26,545,760.677
2051	6	36,720,440.785	569,142,399.452	756,595,532.452		7,840,670.139	142,892,022.075
2051	7	39,739,364.847	615,933,713.706	985,881,862.433		97,368.236	330,111,415.643
2051	8	40,192,339.593	622,954,520.876	1,009,766,887.486		0.000	346,620,027.017
2051	9	40,292,433.986	624,505,917.355	909,565,795.084		346,369.164	244,421,074.579

Indiana Michigan Power Company - Indiana
 Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2051	10	35,161,421.902	544,978,644.079	672,693,302.824		19,286,257.326	73,266,979.518
2051	11	34,196,213.130	530,018,550.341	673,992,289.720		102,783,927.966	6,993,598.283
2051	12	42,381,917.107	656,891,515.456	944,774,942.279		245,411,079.441	90,430.275
2052	1	47,278,237.917	742,816,560.348	1,158,700,684.102		368,605,885.837	0.000
2052	2	37,234,318.319	585,010,556.211	1,015,903,031.548		393,658,157.018	0.000
2052	3	34,897,666.166	548,298,022.260	899,878,412.194		316,228,075.049	454,648.719
2052	4	34,615,368.548	543,862,676.202	758,714,695.706		176,444,586.911	3,792,064.045
2052	5	33,965,963.447	533,659,485.803	650,464,937.482		56,140,687.348	26,698,800.885
2052	6	36,429,897.307	572,371,818.490	760,372,971.707		7,858,776.351	143,712,479.559
2052	7	39,410,941.612	619,208,781.413	990,715,717.233		97,590.519	331,998,403.688
2052	8	39,850,437.118	626,113,957.128	1,014,556,291.882		0.000	348,591,897.636
2052	9	39,951,015.125	627,694,198.109	913,796,993.478		347,140.118	245,804,640.125
2052	10	34,877,442.355	547,980,273.915	675,865,981.683		19,328,622.799	73,679,642.613
2052	11	33,919,336.683	532,926,904.934	676,885,667.232		103,006,639.004	7,032,786.611
2052	12	42,015,275.245	660,127,018.570	948,168,537.012		245,935,308.860	90,934.338
2053	1	46,855,694.834	746,271,032.813	1,162,605,175.816		369,478,448.169	0.000
2053	2	36,921,605.139	588,050,705.427	1,019,557,531.455		394,585,220.889	0.000
2053	3	34,614,705.851	551,308,701.686	903,349,354.213		316,968,674.239	457,272.438
2053	4	34,340,126.867	546,935,479.981	761,943,382.232		176,853,905.727	3,813,869.657
2053	5	33,699,619.732	536,734,117.626	653,555,028.597		56,269,569.493	26,851,721.747
2053	6	36,140,422.660	575,608,805.728	764,158,042.296		7,876,621.683	144,532,192.225
2053	7	39,083,981.106	622,490,885.038	995,556,104.836		97,809.490	333,883,429.201
2053	8	39,510,228.734	629,279,734.483	1,019,351,418.834		0.000	350,561,455.617
2053	9	39,611,252.457	630,888,740.129	918,034,290.475		347,898.794	247,186,399.095
2053	10	34,594,582.032	550,988,189.462	679,044,776.275		19,370,291.894	74,091,712.886
2053	11	33,643,556.031	535,841,190.607	679,782,230.135		103,225,570.131	7,071,913.366
2053	12	41,650,548.309	663,368,621.752	951,561,375.487		246,450,767.774	91,437.652
2054	1	46,435,649.531	749,731,287.390	1,166,508,541.253		370,341,604.332	0.000
2054	2	36,610,430.206	591,097,254.963	1,023,210,430.172		395,502,745.003	0.000
2054	3	34,332,988.124	554,326,592.744	906,821,522.532		317,702,042.998	459,898.665
2054	4	34,066,030.326	550,016,399.697	765,177,576.037		177,259,446.319	3,835,699.695
2054	5	33,434,339.842	539,817,379.656	656,653,897.699		56,397,336.766	27,004,841.436
2054	6	35,852,191.359	578,855,036.056	767,954,670.203		7,894,323.147	145,353,119.641

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Actual Usage	Heating Usage	Cooling Usage
2054	7	38,758,709.844	625,782,512.412	1,000,410,823.291		98,026.820	335,771,574.215
2054	8	39,171,979.480	632,454,997.431	1,024,161,565.360		0.000	352,534,588.449
2054	9	39,273,468.787	634,093,602.888	922,286,612.073		348,652.611	248,570,887.787
2054	10	34,313,202.659	554,007,144.586	682,236,720.418		19,411,715.890	74,504,657.283
2054	11	33,369,279.365	538,766,939.410	682,690,680.829		103,443,333.098	7,111,128.957
2054	12	41,288,275.166	666,623,854.878	954,968,490.660		246,964,418.252	91,942.364

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2005	1	197,322,342.440	628,583,605.125	1,222,104,189.697	399.84	158,415.1	0.0	78,897.0	251,331.6
2005	2	158,873,946.698	497,615,622.275	1,104,677,456.175	398.63	178,660.2	0.0	63,331.6	198,363.5
2005	3	165,755,210.247	505,365,314.208	1,027,179,471.536	401.58	142,985.8	0.0	66,563.8	202,944.1
2005	4	163,185,167.195	509,119,590.473	864,178,503.178	398.74	75,997.5	509.9	65,068.1	203,005.3
2005	5	154,765,030.594	489,037,481.318	737,439,247.429	398.05	31,320.5	5,951.5	61,604.1	194,660.9
2005	6	166,253,793.146	546,979,378.993	842,535,974.442	397.84	5,209.4	46,232.2	66,142.1	217,609.2
2005	7	182,424,204.855	595,139,725.540	1,154,990,162.861	396.97	0.0	149,825.0	72,416.0	236,249.6
2005	8	177,266,472.831	564,752,101.675	1,166,756,969.353	398.67	0.0	169,332.2	70,671.5	225,152.0
2005	9	181,954,726.820	600,848,248.843	1,042,947,645.993	397.81	0.0	103,488.4	72,383.6	239,024.0
2005	10	166,332,736.072	511,065,295.864	808,878,202.759	397.74	4,306.3	47,989.0	66,157.7	203,272.6
2005	11	160,586,380.319	504,888,606.811	770,586,960.830	398.65	38,010.9	3,891.5	64,017.0	201,271.3
2005	12	194,859,558.364	580,190,740.299	1,113,492,084.972	399.05	135,055.5	0.0	77,758.9	231,525.7
2006	1	209,274,625.409	694,333,980.107	1,261,765,924.706	399.66	143,141.9	0.0	83,639.1	277,498.9
2006	2	172,262,091.891	563,865,559.371	1,029,995,482.573	399.12	117,288.8	0.0	68,753.4	225,050.6
2006	3	160,761,960.858	521,795,344.076	1,010,864,730.818	399.62	131,197.6	0.0	64,243.4	208,518.8
2006	4	151,579,526.719	490,101,489.749	827,744,586.940	398.30	73,582.1	526.3	60,373.5	195,205.5
2006	5	154,152,827.462	512,155,603.975	708,201,048.183	398.21	15,666.3	1,015.9	61,385.7	203,947.0
2006	6	161,716,447.771	559,292,358.811	851,210,986.073	397.92	6,063.5	45,746.8	64,350.5	222,554.7
2006	7	174,440,629.125	579,272,017.020	1,020,497,358.730	397.54	0.0	106,056.5	69,346.4	230,281.5
2006	8	173,124,345.605	595,881,470.462	1,168,596,592.065	398.07	0.0	159,065.5	68,915.8	237,203.1
2006	9	177,857,808.854	595,657,526.033	940,085,420.198	397.65	346.5	65,889.4	70,724.4	236,860.8
2006	10	156,312,636.290	514,147,951.191	715,642,943.381	398.40	11,933.3	6,067.4	62,274.8	204,836.0
2006	11	159,032,328.595	533,695,347.657	850,916,498.381	398.63	62,502.5	555.9	63,394.6	212,745.4
2006	12	191,664,508.271	657,396,792.852	1,079,823,341.383	399.19	92,117.4	0.0	76,510.2	262,424.9
2007	1	207,217,828.957	700,365,354.317	1,171,404,713.323	399.42	105,375.9	0.0	82,767.2	279,740.6
2007	2	168,441,988.634	609,203,411.139	1,256,888,620.079	399.29	191,357.5	0.0	67,257.4	243,249.4
2007	3	159,278,931.745	522,354,613.965	1,120,964,281.518	400.02	175,704.7	35.1	63,714.3	208,950.7
2007	4	151,012,315.593	546,366,227.754	867,673,200.486	399.21	65,780.7	2,201.8	60,284.9	218,112.1
2007	5	151,073,382.987	516,065,851.392	757,499,019.566	398.29	24,920.8	11,068.9	60,171.5	205,545.4
2007	6	153,995,495.900	537,626,528.885	893,106,273.564	398.64	1,717.8	78,602.0	61,388.9	214,320.0
2007	7	167,655,369.543	593,767,594.732	1,050,550,772.610	397.87	0.0	115,035.9	66,705.4	236,243.5
2007	8	169,711,364.745	589,256,402.599	1,101,282,504.460	398.55	0.0	136,430.6	67,639.0	234,849.9
2007	9	170,682,154.939	609,286,576.135	1,066,945,212.774	398.12	302.7	113,948.9	67,952.3	242,570.4

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2007	10	158,543,963.176	536,593,587.339	844,860,283.491	392.32	3,035.6	55,704.1	62,200.4	210,518.0
2007	11	153,672,972.300	534,165,941.682	811,138,056.162	398.49	37,229.8	11,903.7	61,237.1	212,859.8
2007	12	184,100,620.548	635,316,258.362	1,116,535,807.005	399.06	118,567.1	0.0	73,466.5	253,526.8
2008	1	199,967,170.782	737,169,774.243	1,307,785,885.655	399.72	148,156.2	0.0	79,931.1	294,662.2
2008	2	164,395,856.391	615,289,317.455	1,222,297,719.241	399.82	176,966.7	0.0	65,729.2	246,006.8
2008	3	155,033,265.253	559,893,327.358	1,135,098,446.672	399.66	167,925.0	0.0	61,960.3	223,765.8
2008	4	147,388,410.576	548,793,291.276	917,562,635.631	398.60	88,110.9	131.3	58,748.9	218,748.5
2008	5	143,889,698.043	504,574,837.394	715,066,773.906	397.87	21,341.1	5,157.6	57,248.7	200,752.7
2008	6	149,744,135.939	522,508,635.464	813,217,764.199	397.36	4,933.5	51,080.5	59,502.5	207,624.6
2008	7	161,830,246.780	582,567,343.625	993,689,713.725	397.52	6.4	99,092.2	64,330.8	231,582.2
2008	8	161,018,275.420	572,880,472.225	1,048,238,839.095	397.86	0.0	125,064.0	64,063.1	227,927.4
2008	9	162,038,094.469	560,705,440.793	956,267,613.077	397.36	0.0	92,793.4	64,387.6	222,802.5
2008	10	145,837,840.070	538,107,784.453	761,156,739.741	397.40	5,606.4	25,077.6	57,956.5	213,846.2
2008	11	150,778,428.848	543,809,480.027	812,214,857.655	397.52	45,131.6	1,627.3	59,937.3	216,174.6
2008	12	179,332,527.368	660,565,758.456	1,180,788,748.000	398.03	135,683.6	0.0	71,379.2	262,923.0
2009	1	195,494,726.254	782,287,539.555	1,421,423,301.166	398.95	176,990.6	0.0	77,992.6	312,093.6
2009	2	163,313,848.473	603,103,834.326	1,290,897,327.192	398.16	208,825.8	0.0	65,024.7	240,130.6
2009	3	145,441,828.115	581,537,625.386	1,042,256,079.606	399.37	125,911.4	0.0	58,084.8	232,247.5
2009	4	146,719,648.630	560,049,386.371	869,439,326.630	396.63	64,238.1	282.2	58,193.7	222,133.5
2009	5	138,988,052.140	499,272,042.309	736,305,247.995	396.40	24,757.7	14,107.3	55,094.7	197,910.9
2009	6	141,529,186.613	528,442,555.075	766,368,128.693	396.23	2,668.7	35,526.5	56,078.3	209,385.3
2009	7	160,021,917.765	565,484,193.800	979,413,814.253	396.19	0.0	100,594.4	63,398.3	224,036.4
2009	8	151,853,066.262	559,635,131.072	915,594,702.866	396.40	0.0	80,908.4	60,195.0	221,841.0
2009	9	157,419,341.056	581,181,265.048	884,971,974.898	396.47	0.0	58,031.3	62,411.4	230,418.6
2009	10	146,838,825.993	554,823,663.690	782,179,201.108	395.72	14,301.2	17,561.1	58,107.5	219,556.5
2009	11	143,014,793.837	563,028,980.362	804,218,572.790	396.77	38,953.2	0.0	56,744.6	223,395.3
2009	12	176,475,367.474	682,575,489.951	1,087,856,595.275	397.85	91,031.0	0.0	70,211.3	271,564.7
2010	1	169,450,188.002	804,935,843.212	1,403,274,674.459	398.34	170,842.2	0.0	67,498.3	320,635.7
2010	2	139,545,315.645	630,801,109.298	1,214,391,091.733	390.58	173,435.4	0.0	54,503.7	246,378.9
2010	3	124,374,916.865	564,520,473.827	1,019,431,759.758	407.29	134,623.8	0.0	50,656.5	229,923.0
2010	4	127,321,503.916	546,630,665.687	797,057,545.255	397.69	44,570.8	4,386.6	50,634.1	217,387.9
2010	5	118,504,307.067	520,200,125.380	690,513,687.942	396.66	10,419.3	10,131.5	47,006.3	206,344.1
2010	6	125,838,146.734	545,120,884.454	911,343,274.182	396.95	2,133.0	93,287.1	49,951.2	216,384.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2010	7	133,639,609.453	595,749,271.482	1,151,883,770.024	396.96	0.0	167,714.8	53,050.0	236,490.4
2010	8	138,460,222.829	608,470,528.422	1,222,852,139.882	396.56	0.0	188,733.3	54,908.3	241,297.5
2010	9	137,774,657.298	617,477,613.701	1,045,503,908.614	396.56	0.0	115,102.2	54,635.9	244,866.9
2010	10	123,931,865.525	516,834,038.755	737,567,231.963	396.78	4,893.8	33,515.3	49,174.1	205,071.0
2010	11	120,908,239.983	534,720,837.513	758,500,340.972	397.39	37,875.2	3,005.1	48,048.1	212,494.3
2010	12	150,359,634.510	650,596,351.731	1,112,507,867.768	397.64	123,883.9	0.0	59,788.3	258,699.9
2011	1	156,712,922.155	757,281,962.259	1,373,172,391.460	399.90	183,624.2	0.0	62,669.2	302,835.5
2011	2	133,248,318.042	606,707,409.462	1,241,975,465.287	389.65	195,613.0	0.0	51,920.5	236,404.8
2011	3	116,002,867.767	546,247,082.102	997,269,207.564	407.73	136,597.4	0.0	47,297.8	222,721.3
2011	4	112,243,955.259	525,336,399.103	836,996,084.638	397.41	78,162.7	1,086.9	44,606.8	208,773.4
2011	5	119,317,530.365	576,221,409.649	778,458,985.349	397.10	24,071.3	8,856.4	47,381.2	228,818.7
2011	6	124,987,823.721	560,459,807.492	896,131,113.017	396.49	3,365.7	80,168.1	49,556.4	222,216.7
2011	7	127,703,936.537	589,181,610.494	1,091,681,552.261	396.22	0.0	148,502.4	50,599.1	233,446.7
2011	8	133,264,337.184	603,113,646.636	1,275,079,505.349	396.97	0.0	213,846.7	52,901.5	239,416.2
2011	9	127,106,094.503	589,757,118.116	971,145,601.536	396.81	517.3	100,384.2	50,436.8	234,020.9
2011	10	119,185,571.182	549,569,681.316	718,245,424.496	396.62	6,180.3	13,448.7	47,271.7	217,972.0
2011	11	115,208,526.547	556,602,342.658	760,696,342.554	397.14	34,883.3	416.2	45,753.3	221,046.3
2011	12	145,520,074.942	698,461,492.840	1,052,862,076.681	397.75	83,082.2	0.0	57,880.6	277,813.1
2012	1	158,020,983.209	742,808,912.505	1,214,977,952.491	398.37	125,146.2	0.0	62,950.3	295,910.6
2012	2	124,259,072.859	586,728,462.135	1,070,040,784.884	398.53	143,093.5	0.0	49,521.0	233,828.9
2012	3	119,297,058.865	564,948,832.349	945,646,395.628	398.52	100,738.4	3,433.9	47,541.8	225,141.1
2012	4	119,667,574.167	530,468,174.663	744,681,042.127	398.11	26,576.7	11,062.7	47,640.7	211,184.2
2012	5	112,008,565.634	525,432,821.467	723,657,308.622	397.98	20,134.3	14,178.1	44,577.4	209,112.8
2012	6	119,813,675.925	569,339,824.788	893,124,134.356	397.39	670.1	80,386.2	47,613.0	226,251.1
2012	7	128,126,712.637	599,549,898.711	1,215,282,155.578	397.54	63.2	193,777.6	50,935.0	238,342.7
2012	8	130,430,771.855	642,547,069.390	1,198,260,046.561	397.33	0.0	168,975.3	51,823.4	255,300.0
2012	9	132,171,292.128	599,959,234.361	942,094,552.350	397.62	433.9	83,052.2	52,554.1	238,556.4
2012	10	114,692,435.120	529,065,865.899	710,696,286.209	398.00	14,398.8	12,242.7	45,647.9	210,569.8
2012	11	117,219,501.800	544,890,048.644	799,154,387.770	398.38	53,396.7	1,199.2	46,697.9	217,073.3
2012	12	136,986,138.369	637,690,637.880	1,001,514,048.704	398.90	90,484.9	0.0	54,643.5	254,373.5
2013	1	138,453,725.895	720,135,655.365	1,214,942,085.077	400.48	142,713.6	0.0	55,448.5	288,402.8
2013	2	112,079,754.644	612,093,395.018	1,134,587,813.907	399.80	164,083.8	0.0	44,809.5	244,714.9
2013	3	108,888,930.118	615,237,582.855	1,091,217,289.650	400.33	146,958.2	0.0	43,591.7	246,299.3

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2013	4	107,570,870.722	579,067,862.751	935,730,649.743	398.82	99,342.6	0.0	42,901.3	230,943.3
2013	5	96,374,987.529	546,293,045.719	735,105,296.011	398.90	25,496.9	11,376.7	38,444.4	217,918.5
2013	6	104,225,952.893	537,241,040.829	799,977,333.755	398.48	2,620.6	60,542.3	41,531.7	214,078.7
2013	7	106,543,412.082	583,177,953.459	997,913,948.060	398.89	0.0	122,934.0	42,498.8	232,622.1
2013	8	112,502,294.037	598,585,374.960	954,792,503.236	398.65	0.0	97,153.4	44,849.3	238,627.3
2013	9	111,329,109.792	611,764,652.432	962,594,429.167	399.29	122.1	95,509.0	44,453.0	244,274.0
2013	10	100,106,076.066	545,740,875.294	742,848,782.247	401.97	4,125.2	34,866.7	40,239.6	219,371.5
2013	11	100,254,740.998	551,763,499.488	787,187,654.691	399.99	50,959.2	3,107.2	40,100.9	220,699.9
2013	12	120,379,509.042	659,134,808.831	1,098,703,351.250	401.31	128,094.7	0.0	48,309.9	264,519.4
2014	1	133,047,171.133	789,306,678.065	1,397,111,585.663	401.55	190,638.0	0.0	53,424.8	316,944.5
2014	2	105,404,287.431	604,238,661.460	1,292,194,502.823	400.17	233,119.1	0.0	42,179.5	241,797.6
2014	3	98,529,743.558	549,029,862.362	1,153,516,893.187	401.58	203,183.3	0.0	39,567.8	220,480.5
2014	4	94,296,628.360	543,358,713.939	898,404,068.912	401.09	104,583.7	0.0	37,821.4	217,935.7
2014	5	96,225,467.110	539,826,812.422	720,151,202.216	399.64	25,520.8	8,088.3	38,455.3	215,734.8
2014	6	97,772,539.773	550,393,977.589	817,030,693.285	399.27	5,179.0	62,243.9	39,037.9	219,757.5
2014	7	105,135,580.829	557,568,055.423	955,052,765.456	399.03	0.0	116,656.1	41,952.3	222,486.4
2014	8	103,905,295.288	570,046,691.141	860,465,247.713	400.06	0.0	74,616.5	41,568.4	228,052.9
2014	9	106,895,001.291	589,000,356.403	930,511,419.360	400.11	332.4	93,539.8	42,769.8	235,664.9
2014	10	94,282,324.283	542,663,858.376	684,307,912.460	399.72	9,218.7	9,712.9	37,686.9	216,915.8
2014	11	95,551,005.335	528,593,670.259	764,853,592.806	401.12	56,254.2	187.1	38,327.5	212,030.0
2014	12	116,381,257.045	667,056,760.392	1,116,787,413.422	402.10	134,038.1	0.0	46,796.3	268,220.2
2015	1	113,843,215.744	701,653,057.997	1,242,620,178.994	401.91	171,666.7	0.0	45,755.1	282,003.5
2015	2	88,557,124.046	541,931,644.092	1,143,773,825.064	402.96	206,832.3	0.0	35,684.8	218,375.7
2015	3	83,914,451.711	501,512,399.256	1,118,221,165.586	402.96	214,692.7	0.0	33,813.8	202,087.4
2015	4	83,942,149.434	530,021,312.916	832,491,138.850	401.92	87,831.3	0.0	33,738.3	213,027.8
2015	5	82,036,252.169	505,232,289.239	685,196,349.918	400.27	23,241.5	15,955.6	32,836.2	202,226.8
2015	6	83,887,757.496	524,385,755.573	778,631,130.654	401.41	2,350.9	66,031.5	33,673.0	210,491.1
2015	7	92,972,939.004	586,160,077.335	895,000,775.896	400.83	16.8	86,508.8	37,266.1	234,948.8
2015	8	92,813,673.886	575,580,929.953	971,906,079.074	400.21	0.0	121,468.0	37,144.9	230,352.7
2015	9	94,348,565.036	579,090,874.543	910,855,831.999	401.05	0.0	95,214.9	37,838.1	232,242.1
2015	10	82,699,842.553	538,401,067.972	710,581,491.692	401.18	4,484.0	31,414.0	33,177.7	215,996.8
2015	11	83,513,364.583	512,152,392.771	670,159,659.030	401.44	29,073.2	831.9	33,525.9	205,600.0
2015	12	104,840,503.783	634,643,998.445	941,868,865.618	402.40	81,440.3	0.0	42,188.2	255,383.3

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2016	1	106,635,545.072	689,257,374.796	1,104,782,673.746	403.03	124,491.8	0.0	42,977.3	277,791.4
2016	2	85,513,663.127	539,216,153.984	1,053,799,146.750	403.63	173,186.5	0.0	34,516.1	217,645.4
2016	3	79,408,268.451	517,975,088.970	890,847,862.625	403.39	118,381.2	0.0	32,032.7	208,947.0
2016	4	80,402,492.814	531,901,093.476	769,544,117.501	403.06	63,377.4	0.0	32,407.0	214,388.1
2016	5	76,233,636.833	511,162,643.604	653,378,542.334	402.38	25,595.0	955.1	30,675.1	205,683.2
2016	6	82,760,264.861	548,086,575.365	814,516,167.531	402.20	4,533.6	69,337.3	33,285.8	220,437.7
2016	7	87,969,635.986	606,156,351.381	983,451,672.821	402.17	0.0	116,356.7	35,378.3	243,774.9
2016	8	90,891,945.367	593,744,884.602	1,112,863,207.359	401.99	0.0	172,141.9	36,537.5	238,678.3
2016	9	90,113,480.093	607,311,848.099	1,019,460,491.289	402.70	0.0	129,682.3	36,288.3	244,562.1
2016	10	81,058,960.875	547,150,058.907	757,062,372.297	402.79	1,541.9	50,359.1	32,649.8	220,387.1
2016	11	78,085,554.905	496,713,478.085	658,408,576.188	403.40	25,262.4	8,465.3	31,499.4	200,372.2
2016	12	96,170,630.492	618,505,744.035	994,599,588.765	405.12	113,063.3	339.4	38,960.7	250,569.7
2017	1	102,021,043.889	669,524,418.179	1,192,338,328.227	405.41	170,595.3	0.0	41,360.8	271,434.6
2017	2	78,966,774.026	544,904,189.623	943,631,609.481	405.08	129,529.0	0.0	31,987.9	220,730.3
2017	3	75,291,081.804	511,669,914.038	831,195,351.087	405.13	98,945.9	0.0	30,502.5	207,291.3
2017	4	73,920,320.922	499,754,253.615	751,266,213.882	404.61	69,713.0	2,141.8	29,908.7	202,204.1
2017	5	70,435,632.441	484,474,982.797	634,798,535.614	404.27	18,157.3	14,138.6	28,474.7	195,856.3
2017	6	76,601,788.969	532,057,644.173	751,357,978.079	403.91	3,560.7	54,077.0	30,940.5	214,905.0
2017	7	84,495,312.136	567,163,475.816	945,008,229.944	404.13	0.0	118,552.5	34,147.4	229,210.0
2017	8	84,485,292.067	600,784,153.318	959,416,870.506	403.91	0.0	110,731.4	34,124.6	242,663.9
2017	9	86,459,818.553	592,267,810.333	810,189,291.522	404.61	0.0	53,191.2	34,982.9	239,639.8
2017	10	75,921,994.413	537,922,783.424	754,252,784.641	404.72	834.3	55,991.6	30,727.1	217,708.1
2017	11	74,155,628.136	493,741,449.612	705,255,103.727	405.44	49,662.0	6,028.3	30,065.6	200,182.0
2017	12	91,997,459.906	628,047,143.549	981,875,558.935	406.35	106,395.8	0.0	37,383.4	255,208.8
2018	1	99,838,592.436	648,083,142.303	1,280,620,437.651	406.95	216,779.1	0.0	40,628.8	263,734.2
2018	2	75,205,773.500	512,615,074.981	1,029,745,458.341	407.18	179,940.7	0.0	30,621.9	208,724.0
2018	3	72,426,380.260	517,497,313.294	894,667,193.359	406.94	124,012.9	0.0	29,473.3	210,591.4
2018	4	74,083,399.879	523,485,606.005	866,926,581.400	406.49	109,274.5	217.0	30,114.2	212,792.2
2018	5	70,434,714.651	494,877,837.152	687,187,443.527	406.17	37,473.5	12,027.8	28,608.1	201,002.1
2018	6	75,429,763.535	543,510,654.246	855,072,297.464	406.10	396.0	95,497.2	30,632.0	220,719.7
2018	7	81,047,499.171	582,447,266.263	1,040,131,574.866	406.19	0.0	152,985.0	32,920.4	236,582.5
2018	8	83,904,278.349	582,499,545.515	982,338,864.915	406.45	0.0	128,413.1	34,103.2	236,759.3
2018	9	82,607,512.763	577,919,929.623	984,976,662.134	406.72	0.0	131,960.3	33,598.2	235,052.2

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2018	10	72,500,782.689	501,331,655.109	755,760,285.014	407.56	8,233.3	65,913.1	29,548.3	204,322.2
2018	11	72,043,094.888	500,555,847.819	752,149,127.692	407.60	63,896.6	9,287.5	29,364.5	204,025.1
2018	12	88,338,013.358	617,671,905.667	1,017,152,634.958	408.05	126,962.4	0.0	36,046.5	252,042.3
2019	1	95,555,636.115	645,845,933.082	1,058,992,698.230	408.81	129,832.8	0.0	39,063.6	264,025.0
2019	2	72,449,470.852	522,759,128.333	1,045,288,075.915	408.04	183,652.2	0.0	29,562.6	213,308.7
2019	3	69,732,591.897	503,155,489.306	934,707,769.284	408.23	147,540.4	165.4	28,467.0	205,403.4
2019	4	68,732,687.195	495,940,677.324	769,672,065.451	407.35	82,130.6	1,376.2	27,998.5	202,022.8
2019	5	66,977,841.043	483,278,585.607	638,180,163.746	406.79	26,091.7	9,675.1	27,246.1	196,594.1
2019	6	71,419,223.437	515,325,378.516	723,723,250.191	406.68	3,650.7	52,055.8	29,044.7	209,572.3
2019	7	77,203,893.857	557,064,665.651	930,024,169.149	406.55	45.3	120,195.2	31,387.5	226,476.7
2019	8	78,294,156.127	564,931,452.630	953,568,354.555	406.86	0.0	126,265.9	31,854.7	229,847.8
2019	9	78,712,101.718	567,947,138.877	865,821,644.782	407.01	161.2	89,041.0	32,036.9	231,162.6
2019	10	68,962,386.479	497,598,072.417	654,165,054.056	407.12	8,976.9	26,689.1	28,076.3	202,584.3
2019	11	67,538,110.919	487,321,212.678	678,568,511.259	407.64	47,879.2	2,549.9	27,531.4	198,652.8
2019	12	84,249,525.691	607,902,419.367	972,340,284.276	408.39	114,391.7	33.0	34,406.2	248,258.2
2020	1	88,944,709.015	686,949,211.373	1,191,668,258.097	409.14	170,111.2	0.0	36,391.1	281,060.5
2020	2	69,618,581.664	537,687,180.049	1,051,174,848.712	409.00	181,543.3	0.0	28,474.1	219,915.0
2020	3	64,900,066.767	501,244,539.189	922,986,497.533	409.19	145,850.5	164.2	26,556.2	205,102.2
2020	4	63,968,127.178	494,046,863.543	760,191,800.978	408.31	81,183.4	1,366.6	26,118.6	201,722.4
2020	5	62,341,169.303	481,481,333.327	630,634,358.246	407.74	25,789.8	9,607.2	25,419.2	196,321.0
2020	6	66,517,706.789	513,738,104.572	715,913,244.035	407.63	3,608.2	51,689.6	27,114.5	209,414.2
2020	7	71,991,307.597	556,012,522.015	921,007,220.173	407.50	44.8	119,354.0	29,336.4	226,574.9
2020	8	73,046,504.466	564,162,154.126	944,691,958.640	407.80	0.0	125,392.2	29,788.5	230,066.3
2020	9	73,408,944.796	566,961,399.884	857,539,602.136	407.95	159.4	88,435.2	29,947.3	231,293.0
2020	10	64,221,438.025	496,003,266.443	646,947,316.034	408.06	8,875.7	26,512.1	26,206.0	202,397.5
2020	11	62,866,315.766	485,537,211.999	670,495,600.345	408.57	47,349.5	2,533.4	25,685.2	198,375.3
2020	12	78,440,254.752	605,819,859.753	960,463,339.659	409.30	113,018.3	32.8	32,105.9	247,964.6
2021	1	84,937,999.389	683,235,298.641	1,178,737,675.143	410.05	168,353.8	0.0	34,829.2	280,163.7
2021	2	66,405,185.054	534,158,642.398	1,038,912,882.616	409.90	179,681.5	0.0	27,219.8	218,954.3
2021	3	61,876,323.576	497,728,798.900	912,046,330.538	410.08	144,365.9	163.4	25,374.3	204,108.8
2021	4	60,990,803.043	490,605,733.961	751,310,727.001	409.19	80,361.9	1,359.5	24,956.9	200,751.8
2021	5	59,450,412.429	478,214,940.101	623,536,920.582	408.62	25,530.8	9,558.1	24,292.7	195,408.5
2021	6	63,481,369.125	510,639,672.515	708,772,453.929	408.50	3,572.5	51,432.2	25,932.0	208,594.8

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2021	7	68,789,169.754	553,335,247.807	913,100,011.328	408.36	44.3	118,778.7	28,090.8	225,960.5
2021	8	69,836,395.354	561,759,056.947	937,004,167.339	408.66	0.0	124,807.4	28,539.1	229,566.7
2021	9	70,162,313.317	564,380,718.133	850,283,112.014	408.80	157.9	88,037.2	28,682.5	230,720.3
2021	10	61,297,870.686	493,075,764.504	640,434,731.748	408.90	8,793.3	26,397.5	25,065.0	201,620.8
2021	11	59,977,738.963	482,456,717.687	663,189,278.949	409.41	46,915.9	2,522.9	24,555.8	197,524.9
2021	12	75,025,454.612	603,499,484.987	952,325,956.523	410.15	112,267.0	32.7	30,771.7	247,525.7
2022	1	82,616,367.504	680,544,748.446	1,170,732,106.551	410.90	167,472.3	0.0	33,947.3	279,638.1
2022	2	64,549,299.177	531,718,930.494	1,031,495,967.504	410.76	178,773.1	0.0	26,514.1	218,407.5
2022	3	60,137,120.113	495,374,010.205	905,493,700.676	410.94	143,657.8	163.3	24,712.6	203,568.0
2022	4	59,289,820.876	488,394,460.468	746,055,465.317	410.06	79,983.8	1,359.4	24,312.1	200,268.9
2022	5	57,804,636.004	476,160,386.331	619,367,364.695	409.49	25,413.0	9,558.5	23,670.5	194,983.7
2022	6	61,755,671.830	508,706,681.498	704,797,271.067	409.38	3,556.3	51,437.2	25,281.3	208,252.2
2022	7	66,969,101.976	551,651,834.072	909,003,856.840	409.25	44.1	118,794.3	27,406.9	225,762.1
2022	8	68,007,195.999	560,203,038.352	932,993,228.824	409.55	0.0	124,824.3	27,852.4	229,431.9
2022	9	68,304,092.690	562,648,697.612	846,234,125.098	409.70	157.2	88,044.5	27,984.5	230,519.6
2022	10	59,608,844.037	491,022,384.497	636,401,762.334	409.81	8,752.8	26,397.1	24,428.5	201,227.3
2022	11	58,294,413.039	480,194,879.733	658,435,176.314	410.33	46,694.8	2,522.6	23,919.9	197,038.1
2022	12	72,950,751.939	600,925,126.909	945,741,088.443	411.07	111,723.1	32.7	29,987.9	247,022.6
2023	1	80,981,910.008	677,847,961.066	1,163,372,579.466	411.83	166,601.8	0.0	33,350.6	279,156.4
2023	2	63,226,787.714	529,231,147.211	1,024,405,827.065	411.68	177,826.4	0.0	26,029.5	217,876.5
2023	3	58,888,428.431	492,917,506.369	899,136,730.109	411.87	142,890.9	163.4	24,254.2	203,016.7
2023	4	58,064,492.604	486,020,864.636	740,971,774.637	410.99	79,557.9	1,359.7	23,863.7	199,747.8
2023	5	56,621,912.613	473,945,946.848	615,456,343.891	410.42	25,279.6	9,560.5	23,238.9	194,517.8
2023	6	60,521,592.631	506,587,683.114	701,122,204.245	410.31	3,537.7	51,448.5	24,832.3	207,855.5
2023	7	65,677,490.865	549,744,421.514	905,213,316.522	410.17	43.9	118,821.2	26,939.3	225,491.4
2023	8	66,713,834.418	558,418,992.965	929,301,947.543	410.48	0.0	124,854.2	27,384.4	229,217.6
2023	9	66,991,044.110	560,739,338.636	842,584,955.598	410.63	156.4	88,068.5	27,508.3	230,254.1
2023	10	58,413,068.716	488,938,573.130	632,848,235.733	410.73	8,709.5	26,406.6	23,992.0	200,822.0
2023	11	57,106,723.618	478,003,990.818	654,246,154.223	411.24	46,469.9	2,523.7	23,484.7	196,575.7
2023	12	71,476,852.818	598,287,184.646	939,617,108.321	411.98	111,141.1	32.7	29,447.0	246,481.7
2024	1	79,650,255.192	675,426,394.294	1,156,622,894.601	412.73	165,730.7	0.0	32,874.1	278,769.5
2024	2	62,158,945.365	527,101,793.200	1,018,067,081.409	412.58	176,918.4	0.0	25,645.8	217,473.5
2024	3	57,884,613.006	490,855,871.756	893,553,676.945	412.76	142,161.9	163.5	23,892.5	202,606.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2024	4	57,079,109.223	484,025,278.251	736,569,588.121	411.87	79,146.1	1,361.0	23,509.4	199,357.6
2024	5	55,668,618.275	472,064,452.597	612,138,643.562	411.30	25,147.1	9,569.4	22,896.8	194,162.3
2024	6	59,526,838.574	504,781,784.371	698,102,975.947	411.18	3,519.0	51,494.9	24,476.4	207,557.3
2024	7	64,635,474.162	548,102,515.823	902,164,787.769	411.05	43.7	118,924.2	26,568.2	225,295.7
2024	8	65,671,184.818	556,885,241.150	926,359,112.283	411.34	0.0	124,966.9	27,013.3	229,070.4
2024	9	65,929,834.285	559,078,563.398	839,607,085.086	411.49	155.6	88,148.9	27,129.2	230,053.3
2024	10	57,439,059.383	487,077,620.494	629,783,733.090	411.59	8,663.9	26,430.8	23,641.1	200,474.2
2024	11	56,132,959.511	476,002,020.987	650,443,763.309	412.09	46,228.2	2,526.0	23,132.0	196,157.0
2024	12	70,279,306.443	595,961,663.015	934,122,053.379	412.82	110,554.9	32.7	29,013.0	246,027.1
2025	1	78,762,663.779	673,082,164.064	1,150,516,099.878	413.57	164,878.8	0.0	32,573.9	278,367.2
2025	2	61,440,566.930	525,052,706.021	1,012,261,211.759	413.42	176,020.2	0.0	25,400.6	217,066.3
2025	3	57,211,485.286	488,912,239.354	888,530,847.882	413.59	141,452.5	163.8	23,662.1	202,209.5
2025	4	56,429,152.246	482,226,655.219	732,810,926.930	412.70	78,763.8	1,363.8	23,288.2	199,014.3
2025	5	55,048,043.956	470,424,116.907	609,468,982.282	412.12	25,027.9	9,589.2	22,686.6	193,873.1
2025	6	58,891,213.112	503,266,690.891	695,918,248.315	412.00	3,502.8	51,606.0	24,263.0	207,344.2
2025	7	63,980,891.830	546,761,562.723	900,244,197.914	411.86	43.5	119,189.5	26,350.9	225,186.9
2025	8	65,013,663.935	555,587,324.189	924,475,862.009	412.15	0.0	125,240.8	26,795.1	228,983.2
2025	9	65,256,251.965	557,660,408.932	837,563,488.203	412.28	154.8	88,340.8	26,904.2	229,915.0
2025	10	56,809,453.335	485,476,594.561	627,429,492.186	412.38	8,623.9	26,487.4	23,427.0	200,200.2
2025	11	55,493,950.026	474,234,696.793	647,299,790.024	412.88	46,011.5	2,531.3	22,912.3	195,802.0
2025	12	69,494,461.947	593,878,883.640	929,482,704.940	413.61	110,031.4	32.8	28,743.3	245,631.3
2026	1	78,070,831.596	671,234,509.490	1,145,445,251.050	414.35	164,139.1	0.0	32,348.4	278,123.6
2026	2	60,878,992.016	523,423,146.756	1,007,354,859.600	414.19	175,223.2	0.0	25,215.3	216,795.4
2026	3	56,682,978.027	487,346,812.812	884,250,446.692	414.35	140,807.5	164.3	23,486.8	201,934.0
2026	4	55,915,048.617	480,744,337.722	729,594,054.904	413.46	78,402.5	1,367.4	23,118.4	198,766.5
2026	5	54,556,412.339	469,063,104.962	607,247,066.541	412.87	24,912.8	9,614.8	22,524.9	193,664.2
2026	6	58,383,379.394	501,966,460.820	694,154,081.450	412.74	3,486.4	51,740.0	24,097.2	207,181.7
2026	7	63,455,351.953	545,574,078.971	898,750,153.482	412.59	43.3	119,493.3	26,181.2	225,099.7
2026	8	64,487,855.345	554,451,298.458	923,050,499.237	412.88	0.0	125,560.2	26,625.5	228,919.5
2026	9	64,716,676.928	556,418,652.209	835,951,731.233	413.01	154.1	88,566.6	26,728.5	229,805.0
2026	10	56,303,337.656	484,082,754.868	625,448,726.070	413.09	8,583.3	26,555.5	23,258.6	199,971.6
2026	11	54,983,330.219	472,733,643.735	644,589,234.349	413.59	45,799.0	2,538.0	22,740.4	195,516.8
2026	12	68,885,497.866	592,261,186.738	925,685,057.840	414.31	109,566.7	32.9	28,539.6	245,376.9

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2027	1	77,507,811.531	669,952,463.977	1,141,324,360.327	415.04	163,469.0	0.0	32,168.8	278,056.5
2027	2	60,428,023.834	522,320,301.160	1,003,379,085.275	414.87	174,508.4	0.0	25,070.0	216,696.7
2027	3	56,263,931.105	486,327,229.895	880,884,916.506	415.03	140,237.8	164.9	23,351.3	201,841.3
2027	4	55,509,919.838	479,809,800.278	727,178,007.935	414.13	78,081.1	1,372.4	22,988.1	198,701.8
2027	5	54,173,065.612	468,254,464.560	605,759,349.616	413.54	24,810.9	9,650.0	22,402.6	193,640.8
2027	6	57,992,641.388	501,269,642.672	693,280,304.286	413.40	3,472.2	51,930.3	23,973.9	207,222.8
2027	7	63,051,883.800	545,000,098.391	898,387,131.982	413.24	43.1	119,935.2	26,055.6	225,216.2
2027	8	64,082,818.656	553,911,165.974	922,766,088.696	413.52	0.0	126,028.3	26,499.3	229,051.5
2027	9	64,305,046.847	555,832,034.609	835,439,825.537	413.64	153.5	88,904.5	26,599.2	229,914.9
2027	10	55,919,306.382	483,348,405.203	624,367,592.223	413.72	8,550.1	26,657.5	23,134.9	199,971.0
2027	11	54,592,376.283	471,878,850.434	642,769,727.294	414.21	45,623.9	2,547.8	22,612.5	195,455.5
2027	12	68,393,552.531	591,171,755.890	922,673,999.305	414.92	109,135.5	33.0	28,377.7	245,287.6
2028	1	77,007,685.972	669,223,560.135	1,138,045,551.715	415.64	162,855.7	0.0	32,007.9	278,159.4
2028	2	60,033,314.488	521,710,371.383	1,000,196,577.287	415.47	173,855.6	0.0	24,942.2	216,756.2
2028	3	55,899,530.848	485,786,354.592	878,238,259.156	415.62	139,713.8	165.6	23,233.2	201,904.8
2028	4	55,161,502.419	479,372,630.995	725,435,357.220	414.71	77,790.5	1,378.7	22,876.2	198,802.0
2028	5	53,844,623.345	467,928,494.073	604,869,350.000	414.12	24,717.6	9,694.0	22,298.0	193,777.6
2028	6	57,657,138.208	501,060,573.522	693,088,303.680	413.97	3,459.1	52,166.3	23,868.3	207,424.1
2028	7	62,701,362.187	544,896,633.346	898,845,574.829	413.81	42.9	120,477.9	25,946.4	225,483.1
2028	8	63,726,765.053	553,807,740.697	923,263,624.796	414.08	0.0	126,596.0	26,387.9	229,320.2
2028	9	63,938,449.765	555,647,354.431	835,560,286.327	414.20	152.9	89,303.2	26,483.2	230,147.9
2028	10	55,577,822.530	482,990,597.477	623,762,806.353	414.27	8,517.1	26,776.5	23,024.3	200,089.2
2028	11	54,241,316.373	471,375,894.382	641,363,388.317	414.75	45,446.9	2,559.1	22,496.7	195,504.4
2028	12	67,962,472.718	590,617,512.699	920,393,612.117	415.46	108,739.4	33.2	28,235.6	245,376.8
2029	1	76,791,671.834	670,638,684.553	1,137,184,908.568	416.18	162,208.1	0.0	31,959.2	279,106.5
2029	2	59,883,754.181	522,978,093.471	999,144,387.239	416.00	173,174.6	0.0	24,911.8	217,560.3
2029	3	55,772,388.106	487,072,622.599	877,678,901.269	416.15	139,174.6	166.5	23,209.7	202,695.3
2029	4	55,047,233.656	480,739,688.118	725,756,916.532	415.23	77,495.8	1,386.2	22,857.5	199,619.3
2029	5	53,739,019.602	469,314,764.923	605,952,424.346	414.63	24,625.7	9,746.9	22,282.0	194,594.0
2029	6	57,540,990.256	502,518,217.037	694,926,124.907	414.48	3,446.5	52,453.5	23,849.7	208,285.0
2029	7	62,568,186.607	546,421,836.626	901,494,162.256	414.32	42.8	121,146.8	25,923.1	226,392.1
2029	8	63,588,063.155	555,328,644.492	925,982,242.393	414.58	0.0	127,304.4	26,362.6	230,230.3
2029	9	63,808,156.719	557,250,770.345	837,986,010.632	414.70	152.4	89,807.1	26,461.2	231,091.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2029	10	55,481,285.410	484,530,358.256	625,401,337.177	414.77	8,488.3	26,928.8	23,012.0	200,968.7
2029	11	54,150,407.158	472,907,503.604	642,338,778.094	415.25	45,296.5	2,573.8	22,485.9	196,374.3
2029	12	67,819,721.887	592,284,657.786	920,720,716.451	415.95	108,370.5	33.3	28,209.7	246,362.0
2030	1	73,530,086.960	672,264,584.358	1,133,696,063.248	416.67	161,627.8	0.0	30,638.0	280,114.1
2030	2	57,335,422.726	524,201,394.583	995,839,963.403	416.49	172,554.5	0.0	23,879.8	218,326.3
2030	3	53,404,030.558	488,257,798.826	874,906,992.131	416.64	138,675.6	167.5	22,250.2	203,427.5
2030	4	52,724,460.224	482,044,681.350	723,866,467.278	415.72	77,217.6	1,394.3	21,918.7	200,396.5
2030	5	51,492,358.123	470,779,923.740	604,998,693.018	415.12	24,537.3	9,804.2	21,375.6	195,430.9
2030	6	55,163,886.661	504,347,660.541	694,933,813.099	414.97	3,434.1	52,761.9	22,891.3	209,288.6
2030	7	59,999,919.298	548,562,125.744	902,440,412.384	414.80	42.6	121,859.0	24,888.2	227,545.3
2030	8	60,974,024.020	557,468,086.998	926,952,067.324	415.07	0.0	128,052.9	25,308.4	231,387.8
2030	9	61,169,169.152	559,252,243.207	838,366,281.111	415.18	151.8	90,335.3	25,396.5	232,192.5
2030	10	53,155,027.321	485,981,233.345	624,734,884.800	415.25	8,457.9	27,087.2	22,072.8	201,805.6
2030	11	51,853,537.878	474,082,087.084	640,729,734.033	415.73	45,134.6	2,588.9	21,557.2	197,091.0
2030	12	64,946,961.147	593,791,516.453	918,174,755.397	416.43	108,004.6	33.5	27,046.1	247,275.1
2031	1	70,616,013.011	674,299,860.081	1,131,070,199.962	417.15	161,085.8	0.0	29,457.7	281,286.8
2031	2	55,066,072.115	525,816,215.602	993,330,143.940	416.97	171,979.9	0.0	22,961.1	219,251.6
2031	3	51,298,584.982	489,841,145.100	872,906,093.125	417.12	138,217.3	168.7	21,397.6	204,322.1
2031	4	50,660,973.734	483,752,707.685	722,710,228.669	416.20	76,964.6	1,404.5	21,085.1	201,338.0
2031	5	49,496,714.205	472,635,398.677	604,743,530.737	415.60	24,457.5	9,875.7	20,570.8	196,426.8
2031	6	53,049,481.117	506,560,143.641	695,777,716.233	415.44	3,423.0	53,147.3	22,039.1	210,447.9
2031	7	57,709,412.045	551,057,002.622	904,456,304.663	415.28	42.5	122,751.0	23,965.4	228,841.8
2031	8	58,640,583.611	559,948,595.757	929,007,957.171	415.54	0.0	128,992.2	24,367.6	232,682.4
2031	9	58,817,183.650	561,634,918.404	839,746,403.344	415.66	151.4	90,999.6	24,447.7	233,446.8
2031	10	51,091,375.898	487,862,542.085	624,872,435.925	415.72	8,431.5	27,287.0	21,239.9	202,816.4
2031	11	49,820,036.627	475,722,747.497	639,917,496.051	416.20	44,994.8	2,608.1	20,735.1	197,996.3
2031	12	62,379,654.720	595,652,326.655	916,317,788.255	416.90	107,646.1	33.8	26,006.2	248,328.6
2032	1	68,151,816.539	676,663,914.512	1,129,091,251.185	417.62	160,481.3	0.0	28,461.6	282,588.6
2032	2	53,152,899.564	527,743,072.936	991,339,252.514	417.44	171,335.0	0.0	22,188.1	220,300.5
2032	3	49,525,622.226	491,728,659.714	871,414,671.042	417.58	137,699.5	169.9	20,681.1	205,337.5
2032	4	48,922,525.886	485,740,653.069	722,081,101.624	416.66	76,675.9	1,414.2	20,384.2	202,390.2
2032	5	47,814,256.970	474,736,902.604	605,014,659.192	416.06	24,365.7	9,944.1	19,893.6	197,519.2
2032	6	51,262,749.786	508,976,204.893	697,110,235.096	415.91	3,410.2	53,515.3	21,320.4	211,685.9

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2032	7	55,767,393.068	553,701,785.390	906,876,976.540	415.74	42.3	123,601.1	23,184.6	230,194.3
2032	8	56,658,773.136	562,552,095.723	931,435,300.188	416.00	0.0	129,885.4	23,570.1	234,021.8
2032	9	56,820,650.925	564,159,343.544	841,546,590.297	416.11	150.8	91,629.7	23,643.8	234,753.7
2032	10	49,344,671.352	489,932,039.570	625,478,729.557	416.18	8,399.7	27,475.8	20,536.2	203,899.8
2032	11	48,099,294.439	477,566,974.926	639,552,132.110	416.65	44,825.0	2,626.1	20,040.8	198,980.6
2032	12	60,211,961.102	597,830,892.392	915,089,013.596	417.35	107,245.3	34.0	25,129.7	249,507.3
2033	1	66,201,629.907	679,256,970.329	1,127,969,654.544	418.07	159,916.9	0.0	27,677.0	283,977.9
2033	2	51,645,005.790	529,899,795.738	990,097,684.507	417.89	170,729.6	0.0	21,581.9	221,439.1
2033	3	48,130,686.730	493,841,382.663	870,611,218.471	418.03	137,210.2	171.1	20,120.1	206,441.0
2033	4	47,555,771.521	487,942,507.312	722,083,898.214	417.11	76,402.6	1,424.0	19,835.9	203,525.3
2033	5	46,491,481.686	477,022,439.488	605,845,178.759	416.50	24,278.5	10,012.8	19,363.9	198,682.0
2033	6	49,854,936.536	511,532,921.395	698,970,960.816	416.35	3,397.9	53,884.4	20,757.0	212,975.3
2033	7	54,231,874.308	556,442,170.518	909,811,136.179	416.18	42.2	124,451.7	22,570.0	231,578.2
2033	8	55,088,911.765	565,235,740.516	934,362,039.373	416.44	0.0	130,776.8	22,941.1	235,385.2
2033	9	55,240,247.840	566,788,513.221	843,869,639.608	416.55	150.3	92,256.8	23,010.1	236,093.8
2033	10	47,967,953.190	492,171,667.112	626,628,525.424	416.61	8,368.9	27,663.3	19,984.0	205,044.0
2033	11	46,743,924.864	479,612,614.206	639,771,480.652	417.08	44,659.4	2,644.0	19,496.1	200,038.1
2033	12	58,486,914.322	600,100,696.642	914,365,955.538	417.78	106,824.5	34.2	24,434.6	250,709.3
2034	1	64,799,664.905	681,927,119.027	1,127,390,180.468	418.49	159,304.7	0.0	27,118.2	285,381.2
2034	2	50,569,155.536	532,170,630.773	989,316,792.326	418.31	170,073.5	0.0	21,153.4	222,610.0
2034	3	47,139,476.612	496,077,989.380	870,269,649.983	418.44	136,680.9	172.2	19,725.2	207,580.9
2034	4	46,586,993.537	490,263,866.849	722,568,001.506	417.52	76,107.0	1,433.3	19,450.9	204,694.2
2034	5	45,555,186.613	479,405,521.763	607,143,382.213	416.91	24,184.4	10,078.4	18,992.4	199,868.9
2034	6	48,856,377.145	514,146,000.004	701,267,105.394	416.75	3,384.7	54,236.9	20,360.8	214,269.6
2034	7	53,137,482.182	559,198,727.180	913,139,807.682	416.57	42.0	125,264.9	22,135.7	232,947.7
2034	8	53,967,547.113	567,934,015.980	937,691,810.505	416.83	0.0	131,631.1	22,495.3	236,732.4
2034	9	54,113,517.346	569,470,151.397	846,660,878.480	416.94	149.7	92,859.4	22,561.9	237,432.9
2034	10	46,994,205.226	494,549,208.355	628,307,438.084	417.00	8,336.3	27,844.1	19,596.5	206,225.8
2034	11	45,786,743.997	481,842,343.926	640,564,847.477	417.47	44,485.6	2,661.3	19,114.4	201,152.9
2034	12	57,284,027.533	602,835,399.214	914,797,293.813	418.16	106,461.4	34.5	23,953.9	252,081.3
2035	1	63,560,866.410	685,096,830.577	1,127,891,584.437	418.87	158,849.8	0.0	26,623.8	286,966.7
2035	2	49,626,317.589	534,901,973.714	989,587,159.814	418.68	169,590.6	0.0	20,777.6	223,953.5
2035	3	46,275,105.836	498,780,619.795	870,898,049.321	418.82	136,295.1	173.4	19,380.8	208,898.2

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2035	4	45,744,143.386	493,057,590.645	723,867,306.357	417.89	75,893.6	1,443.5	19,116.0	206,043.9
2035	5	44,741,918.926	482,255,019.185	609,116,889.346	417.28	24,117.0	10,150.0	18,669.9	201,235.4
2035	6	47,987,289.971	517,235,558.985	704,269,129.177	417.12	3,375.3	54,623.3	20,016.3	215,747.8
2035	7	52,179,333.515	562,419,898.151	917,282,247.922	416.94	41.9	126,159.1	21,755.7	234,496.0
2035	8	52,982,466.109	571,076,539.041	941,828,948.164	417.20	0.0	132,572.6	22,104.1	238,251.3
2035	9	53,125,255.883	572,615,612.171	850,216,844.366	417.30	149.3	93,524.9	22,169.2	238,953.2
2035	10	46,146,858.862	497,398,297.622	630,658,392.335	417.36	8,313.7	28,044.0	19,259.9	207,594.7
2035	11	44,954,803.770	484,549,618.688	642,100,766.040	417.83	44,365.6	2,680.4	18,783.4	202,458.7
2035	12	56,217,375.567	605,944,317.625	915,962,520.690	418.52	106,186.1	34.7	23,528.1	253,600.2
2036	1	62,520,691.520	688,599,594.093	1,129,061,704.605	419.23	158,444.5	0.0	26,210.6	288,681.8
2036	2	48,841,649.039	537,939,342.729	990,466,428.323	419.04	169,160.4	0.0	20,466.6	225,418.2
2036	3	45,558,984.844	501,784,252.672	872,090,401.817	419.18	135,951.3	174.7	19,097.2	210,335.5
2036	4	45,046,780.913	496,142,865.633	725,666,082.134	418.25	75,702.4	1,454.2	18,840.6	207,509.9
2036	5	44,069,469.992	485,378,814.766	611,533,210.837	417.63	24,056.2	10,225.2	18,404.9	202,710.8
2036	6	47,266,306.124	520,588,599.072	707,732,535.080	417.47	3,366.8	55,027.8	19,732.2	217,329.9
2036	7	51,378,379.286	565,878,755.682	921,922,946.569	417.29	41.8	127,092.6	21,439.8	236,136.4
2036	8	52,155,441.132	574,437,273.803	946,443,727.737	417.54	0.0	133,552.1	21,777.2	239,853.2
2036	9	52,295,999.734	575,985,378.828	854,221,675.750	417.65	148.9	94,214.3	21,841.2	240,558.2
2036	10	45,441,221.422	500,487,212.564	633,412,940.264	417.70	8,292.4	28,250.2	18,980.9	209,055.1
2036	11	44,262,144.176	487,500,918.058	644,041,330.775	418.17	44,251.1	2,700.1	18,509.0	203,857.1
2036	12	55,297,836.954	609,047,455.407	917,143,452.068	418.86	105,851.1	35.0	23,161.8	255,103.2
2037	1	61,616,566.116	691,884,225.082	1,130,006,200.734	419.56	157,967.3	0.0	25,852.0	290,288.3
2037	2	48,159,812.105	540,780,124.222	991,078,732.420	419.37	168,644.1	0.0	20,196.7	226,785.8
2037	3	44,936,052.196	504,580,953.002	873,013,211.514	419.50	135,530.4	175.9	18,850.6	211,671.0
2037	4	44,439,906.071	499,009,794.167	727,242,181.772	418.57	75,465.4	1,463.7	18,601.0	208,868.1
2037	5	43,483,824.035	488,274,076.149	613,758,332.314	417.95	23,980.1	10,291.8	18,174.0	204,073.5
2037	6	46,637,364.414	523,684,761.601	710,923,832.830	417.78	3,356.0	55,384.4	19,484.1	218,784.6
2037	7	50,679,084.639	569,068,700.411	926,153,703.529	417.60	41.7	127,912.3	21,163.4	237,640.9
2037	8	51,432,670.752	577,530,618.635	950,635,418.069	417.84	0.0	134,408.9	21,490.9	241,318.0
2037	9	51,570,810.872	579,081,775.669	857,871,088.334	417.94	148.4	94,815.6	21,553.6	242,022.2
2037	10	44,824,141.544	503,324,323.182	635,935,309.054	417.99	8,264.8	28,429.5	18,736.2	210,386.2
2037	11	43,656,022.252	490,207,667.021	645,750,435.987	418.45	44,102.2	2,717.1	18,268.0	205,128.7
2037	12	54,528,158.322	612,289,436.811	918,716,960.714	419.14	105,544.9	35.2	22,854.7	256,632.7

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2038	1	60,853,388.508	695,318,073.266	1,131,446,531.971	419.84	157,554.5	0.0	25,548.5	291,920.6
2038	2	47,589,977.566	543,768,758.311	992,180,162.068	419.64	168,200.2	0.0	19,970.6	228,186.4
2038	3	44,418,632.453	507,532,590.889	874,388,872.997	419.76	135,170.9	177.0	18,645.4	213,044.3
2038	4	43,937,163.984	502,031,274.758	729,188,025.188	418.83	75,263.8	1,473.5	18,402.1	210,264.1
2038	5	42,999,402.539	491,316,300.667	616,275,020.231	418.21	23,915.6	10,360.3	17,982.6	205,471.2
2038	6	46,115,639.532	526,922,796.130	714,411,721.722	418.03	3,346.9	55,751.6	19,277.8	220,270.3
2038	7	50,094,509.696	572,385,841.069	930,726,563.645	417.84	41.6	128,757.3	20,931.7	239,168.1
2038	8	50,826,360.759	580,748,058.580	955,176,351.710	418.09	0.0	135,294.1	21,249.9	242,803.8
2038	9	50,964,275.210	582,323,885.542	861,864,767.278	418.18	148.0	95,438.3	21,312.3	243,516.4
2038	10	44,313,726.371	506,333,921.489	638,775,367.203	418.23	8,241.7	28,615.7	18,533.2	211,762.9
2038	11	43,156,241.260	493,108,358.590	647,836,871.067	418.68	43,978.5	2,734.9	18,068.8	206,456.0
2038	12	53,877,041.997	615,605,506.171	920,569,228.517	419.36	105,260.8	35.4	22,594.0	258,161.6
2039	1	60,175,836.496	698,754,312.356	1,133,183,186.165	420.06	157,208.4	0.0	25,277.4	293,518.0
2039	2	47,086,928.798	546,767,547.720	993,582,560.612	419.86	167,828.2	0.0	19,769.7	229,563.6
2039	3	43,963,414.698	510,497,691.342	876,022,297.443	419.98	134,870.4	178.2	18,463.7	214,397.8
2039	4	43,495,749.086	505,067,216.560	731,313,141.830	419.04	75,095.8	1,483.0	18,226.3	211,641.3
2039	5	42,574,665.985	494,371,714.401	618,898,163.031	418.41	23,862.0	10,427.5	17,813.7	206,850.5
2039	6	45,657,566.812	530,169,974.511	717,978,800.049	418.23	3,339.4	56,112.9	19,095.5	221,734.6
2039	7	49,579,248.986	575,708,059.070	935,382,415.656	418.04	41.5	129,591.4	20,726.2	240,670.2
2039	8	50,290,923.388	583,971,933.517	959,808,692.312	418.28	0.0	136,170.2	21,035.8	244,265.3
2039	9	50,429,633.064	585,582,612.983	865,960,603.031	418.37	147.6	96,056.3	21,098.3	244,991.3
2039	10	43,867,060.083	509,378,833.567	641,732,591.487	418.42	8,223.2	28,801.1	18,354.7	213,132.5
2039	11	42,719,722.187	496,056,088.935	650,105,062.906	418.87	43,879.8	2,752.6	17,894.0	207,782.4
2039	12	53,309,674.999	619,025,300.936	922,811,213.688	419.55	105,050.5	35.7	22,365.8	259,709.3
2040	1	57,505,091.502	701,997,962.627	1,132,992,051.217	420.24	156,955.2	0.0	24,166.0	295,007.9
2040	2	45,010,757.534	549,472,390.355	993,402,666.578	420.04	167,560.3	0.0	18,906.1	230,797.8
2040	3	42,036,325.578	513,161,776.485	876,118,429.664	420.16	134,657.1	179.4	17,661.8	215,607.8
2040	4	41,601,236.250	507,850,389.021	731,865,861.129	419.21	74,977.4	1,492.8	17,439.7	212,896.8
2040	5	40,736,456.744	497,293,524.660	620,021,617.307	418.59	23,824.5	10,496.0	17,051.7	208,159.6
2040	6	43,701,642.050	533,491,259.319	720,153,699.091	418.41	3,334.2	56,481.4	18,285.0	223,215.7
2040	7	47,452,537.490	579,280,612.713	938,734,265.343	418.21	41.4	130,441.5	19,845.3	242,262.7
2040	8	48,122,771.692	587,462,549.859	963,130,756.059	418.45	0.0	137,061.9	20,137.1	245,824.7
2040	9	48,246,150.836	588,968,710.546	868,570,542.595	418.54	147.4	96,684.0	20,192.9	246,506.5

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2040	10	41,960,986.830	512,242,072.744	643,071,605.142	418.58	8,209.9	28,988.8	17,564.1	214,415.2
2040	11	40,848,205.412	498,657,705.387	650,663,985.221	419.03	43,808.3	2,770.5	17,116.7	208,953.5
2040	12	50,923,099.359	621,647,771.818	922,303,568.934	419.71	104,778.5	35.9	21,372.8	260,909.6
2041	1	55,241,319.078	705,208,595.263	1,132,863,195.951	420.40	156,562.0	0.0	23,223.4	296,468.7
2041	2	43,252,627.708	552,161,413.534	993,170,772.219	420.19	167,133.8	0.0	18,174.4	232,013.3
2041	3	40,404,244.190	515,799,057.004	876,180,009.737	420.31	134,308.6	180.4	16,982.2	216,794.7
2041	4	39,996,312.566	510,591,417.275	732,487,528.066	419.36	74,780.7	1,501.1	16,772.9	214,122.5
2041	5	39,178,016.835	500,145,084.853	621,273,257.918	418.73	23,761.2	10,554.0	16,405.1	209,426.7
2041	6	42,041,073.999	536,694,764.591	722,367,438.444	418.55	3,325.2	56,791.7	17,596.3	224,633.3
2041	7	45,645,031.385	582,702,748.613	941,948,173.300	418.35	41.3	131,154.6	19,095.8	243,775.8
2041	8	46,279,113.437	590,797,416.170	966,295,200.336	418.59	0.0	137,807.4	19,371.9	247,301.4
2041	9	46,389,840.749	592,210,956.860	871,131,144.035	418.67	147.0	97,207.3	19,422.2	247,943.0
2041	10	40,342,870.702	515,015,565.367	644,517,011.660	418.71	8,186.9	29,145.0	16,892.1	215,643.7
2041	11	39,260,090.995	501,192,840.483	651,316,303.930	419.16	43,684.2	2,785.3	16,456.3	210,080.1
2041	12	48,935,565.894	624,709,588.012	922,685,450.042	419.83	104,518.9	36.1	20,544.7	262,273.0
2042	1	53,386,562.982	708,507,806.432	1,133,410,290.708	420.52	156,230.4	0.0	22,450.2	297,942.6
2042	2	41,817,019.294	554,965,200.170	993,578,718.518	420.31	166,778.0	0.0	17,576.2	233,258.0
2042	3	39,074,228.739	518,564,869.990	876,846,268.908	420.43	134,021.6	181.4	16,427.8	218,018.2
2042	4	38,689,405.458	513,457,774.055	733,635,266.025	419.48	74,620.6	1,509.5	16,229.3	215,383.7
2042	5	37,909,248.965	503,104,102.005	622,960,803.932	418.85	23,710.2	10,613.1	15,878.1	210,722.6
2042	6	40,687,377.238	539,973,408.776	724,996,754.164	418.66	3,318.1	57,109.7	17,034.2	226,065.5
2042	7	44,167,953.447	586,165,095.932	945,606,651.245	418.46	41.2	131,889.1	18,482.6	245,288.3
2042	8	44,771,334.534	594,172,732.796	969,923,102.036	418.70	0.0	138,579.8	18,745.6	248,778.1
2042	9	44,873,996.745	595,535,191.332	874,182,521.165	418.78	146.7	97,752.8	18,792.3	249,397.8
2042	10	39,027,449.011	517,944,043.318	646,457,399.615	418.82	8,169.5	29,308.8	16,345.4	216,924.0
2042	11	37,971,276.980	503,927,292.899	652,551,634.579	419.26	43,591.8	2,801.0	15,920.0	211,278.2
2042	12	47,310,052.722	627,864,762.301	923,648,789.255	419.93	104,306.3	36.3	19,867.1	263,661.6
2043	1	51,963,549.220	711,906,001.758	1,134,653,322.085	420.62	155,959.9	0.0	21,857.0	299,443.4
2043	2	40,721,619.037	557,890,394.877	994,631,211.326	420.41	166,490.8	0.0	17,119.8	234,543.2
2043	3	38,062,197.986	521,456,051.270	878,105,946.948	420.53	133,791.7	182.4	16,006.1	219,285.3
2043	4	37,696,187.038	516,441,663.408	735,299,955.765	419.58	74,493.0	1,518.1	15,816.4	216,686.1
2043	5	36,945,370.682	506,155,401.625	625,078,207.283	418.94	23,669.8	10,674.1	15,478.0	212,050.0
2043	6	39,656,675.099	543,300,552.720	728,030,759.578	418.76	3,312.4	57,438.2	16,606.5	227,511.0

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2043	7	43,038,831.001	589,636,438.588	949,690,564.578	418.56	41.1	132,648.5	18,014.3	246,797.6
2043	8	43,616,243.076	597,547,043.765	973,973,840.794	418.79	0.0	139,378.4	18,266.1	250,248.0
2043	9	43,714,085.475	598,887,494.760	877,667,505.968	418.87	146.4	98,316.6	18,310.7	250,858.5
2043	10	38,026,222.108	520,963,178.025	648,826,139.809	418.91	8,155.7	29,477.9	15,929.6	218,237.5
2043	11	36,991,206.102	506,783,351.628	654,266,211.646	419.36	43,518.3	2,817.2	15,512.5	212,523.0
2043	12	46,063,448.206	631,074,007.295	925,119,616.808	420.03	104,122.6	36.5	19,347.9	265,067.8
2044	1	51,012,110.840	715,396,412.275	1,136,628,510.185	420.71	155,756.9	0.0	21,461.5	300,977.6
2044	2	39,997,576.765	560,928,031.527	996,346,440.208	420.50	166,275.5	0.0	16,819.1	235,871.7
2044	3	37,397,546.769	524,465,079.879	879,977,000.698	420.62	133,620.5	183.5	15,730.0	220,598.4
2044	4	37,045,749.518	519,531,457.516	737,495,784.987	419.67	74,398.3	1,527.0	15,546.8	218,029.5
2044	5	36,315,181.647	509,285,936.891	627,637,862.521	419.03	23,639.9	10,736.1	15,217.2	213,407.3
2044	6	38,980,185.314	546,660,082.567	731,471,049.292	418.85	3,308.3	57,772.5	16,326.7	228,966.8
2044	7	42,291,207.429	593,094,023.500	954,177,320.533	418.65	41.1	133,420.6	17,705.1	248,297.7
2044	8	42,847,841.701	600,900,290.577	978,425,409.004	418.88	0.0	140,190.0	17,948.2	251,705.8
2044	9	42,944,223.069	602,251,947.736	881,578,889.046	418.96	146.3	98,889.4	17,992.0	252,321.4
2044	10	37,369,257.134	524,068,344.614	651,641,462.690	419.00	8,145.6	29,649.9	15,657.7	219,584.9
2044	11	36,349,434.617	509,766,302.255	656,495,487.703	419.45	43,464.7	2,833.6	15,246.6	213,819.5
2044	12	45,230,333.869	634,312,480.770	927,094,726.962	420.12	103,963.9	36.7	19,002.0	266,485.0
2045	1	50,306,579.855	718,811,423.831	1,138,658,803.659	420.80	155,504.5	0.0	21,169.2	302,479.2
2045	2	39,465,600.210	563,908,823.879	998,066,004.850	420.59	166,004.7	0.0	16,599.0	237,176.4
2045	3	36,911,265.875	527,410,920.312	881,849,020.576	420.71	133,401.5	184.5	15,528.9	221,885.8
2045	4	36,570,965.403	522,548,497.395	739,727,132.690	419.76	74,276.2	1,535.3	15,351.0	219,343.9
2045	5	35,855,513.025	512,325,672.781	630,246,981.380	419.13	23,601.0	10,794.8	15,028.0	214,728.8
2045	6	38,484,872.278	549,895,578.633	734,919,588.412	418.94	3,302.8	58,088.4	16,122.9	230,373.6
2045	7	41,739,965.341	596,406,354.873	958,609,825.701	418.74	41.0	134,150.8	17,478.3	249,740.9
2045	8	42,278,892.178	604,106,873.730	982,819,080.874	418.98	0.0	140,957.7	17,713.9	253,106.6
2045	9	42,374,765.345	605,476,768.640	885,471,936.526	419.06	146.0	99,431.0	17,757.5	253,730.6
2045	10	36,887,255.633	527,067,847.173	654,493,508.483	419.10	8,132.2	29,812.2	15,459.3	220,892.6
2045	11	35,878,672.458	512,656,589.040	658,754,780.250	419.54	43,392.7	2,849.1	15,052.6	215,081.5
2045	12	44,618,894.805	637,542,273.739	929,238,877.559	420.21	103,788.4	36.9	18,749.5	267,903.7
2046	1	49,712,494.325	722,197,279.879	1,140,851,588.197	420.90	155,288.2	0.0	20,924.1	303,974.0
2046	2	39,020,655.557	566,871,803.261	999,939,966.382	420.69	165,772.0	0.0	16,415.6	238,477.5
2046	3	36,506,040.510	530,340,782.809	883,854,318.873	420.80	133,212.6	185.5	15,361.9	223,169.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2046	4	36,175,758.167	525,542,612.589	742,051,169.818	419.85	74,169.8	1,543.6	15,188.5	220,651.1
2046	5	35,472,993.456	515,333,212.124	632,910,837.514	419.22	23,566.8	10,853.1	14,871.0	216,038.4
2046	6	38,071,577.317	553,084,087.863	738,397,176.244	419.04	3,298.0	58,401.4	15,953.3	231,761.6
2046	7	41,277,517.607	599,658,322.134	963,049,204.935	418.84	40.9	134,871.7	17,288.5	251,158.5
2046	8	41,800,181.868	607,251,316.859	987,214,033.018	419.07	0.0	141,713.2	17,517.1	254,479.8
2046	9	41,896,030.881	608,643,761.516	889,376,560.580	419.15	145.8	99,962.5	17,560.7	255,112.7
2046	10	36,484,374.371	530,026,028.400	657,378,872.348	419.19	8,119.7	29,971.1	15,293.7	222,179.4
2046	11	35,485,462.888	515,514,361.544	661,071,688.971	419.63	43,325.1	2,864.3	14,890.8	216,325.2
2046	12	44,105,438.451	640,740,886.362	931,486,976.418	420.30	103,625.5	37.1	18,537.4	269,302.1
2047	1	49,225,273.622	725,599,457.120	1,143,206,018.918	420.98	155,082.7	0.0	20,723.1	305,466.0
2047	2	38,659,814.603	569,860,529.445	1,001,966,751.479	420.77	165,550.7	0.0	16,266.9	239,780.6
2047	3	36,179,631.828	533,301,681.873	886,006,290.110	420.88	133,033.3	186.5	15,227.4	224,457.2
2047	4	35,858,630.544	528,569,999.537	744,508,490.392	419.93	74,069.0	1,551.8	15,058.1	221,962.1
2047	5	35,166,805.650	518,372,234.641	635,689,205.824	419.29	23,534.5	10,910.5	14,745.2	217,350.3
2047	6	37,739,632.702	556,296,694.469	741,977,472.409	419.11	3,293.4	58,709.5	15,816.9	233,146.9
2047	7	40,903,136.396	602,927,955.078	967,586,676.233	418.90	40.9	135,581.5	17,134.5	252,568.7
2047	8	41,410,953.639	610,413,376.468	991,708,635.412	419.13	0.0	142,456.9	17,356.7	255,844.6
2047	9	41,507,717.167	611,839,708.065	893,395,714.372	419.21	145.6	100,485.5	17,400.5	256,490.4
2047	10	36,161,389.592	533,032,784.303	660,394,397.974	419.25	8,107.9	30,127.4	15,160.5	223,471.5
2047	11	35,170,778.479	518,430,795.667	663,542,117.669	419.69	43,261.4	2,879.2	14,760.7	217,578.6
2047	12	43,689,391.598	643,998,427.890	933,927,945.637	420.35	103,470.4	37.3	18,364.9	270,706.4
2048	1	48,807,032.422	729,005,980.901	1,145,638,109.067	421.04	154,867.7	0.0	20,549.5	306,938.0
2048	2	38,352,753.552	572,855,700.007	1,004,054,979.594	420.82	165,317.8	0.0	16,139.6	241,069.3
2048	3	35,903,093.898	536,266,371.579	888,209,643.896	420.93	132,843.2	187.4	15,112.7	225,730.3
2048	4	35,590,308.203	531,594,449.705	747,006,386.668	419.97	73,961.0	1,559.5	14,947.0	223,256.1
2048	5	34,907,646.765	521,397,880.757	638,492,062.630	419.34	23,499.4	10,964.4	14,638.1	218,641.3
2048	6	37,457,411.724	559,482,431.554	745,541,820.302	419.15	3,288.4	58,997.6	15,700.1	234,505.0
2048	7	40,582,356.870	606,158,158.140	972,043,077.900	418.94	40.8	136,242.3	17,001.7	253,945.5
2048	8	41,075,867.241	613,529,473.191	996,104,099.095	419.17	0.0	143,146.3	17,217.8	257,173.6
2048	9	41,173,240.387	614,983,886.670	897,335,835.737	419.25	145.3	100,968.2	17,261.8	257,830.5
2048	10	35,884,687.943	535,991,451.129	663,379,281.468	419.28	8,094.3	30,271.1	15,045.7	224,730.4
2048	11	34,900,895.401	521,297,039.048	665,986,169.680	419.72	43,187.5	2,892.8	14,648.6	218,798.7
2048	12	43,329,342.764	647,188,498.387	936,309,451.215	420.38	103,289.5	37.5	18,215.0	272,068.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2049	1	48,437,452.085	732,444,793.005	1,148,194,644.869	421.07	154,663.4	0.0	20,395.5	308,408.9
2049	2	38,083,692.403	575,880,873.122	1,006,256,463.878	420.85	165,096.5	0.0	16,027.6	242,360.1
2049	3	35,661,864.351	539,259,307.176	890,511,927.130	420.96	132,662.7	188.3	15,012.2	227,006.4
2049	4	35,356,666.498	534,644,271.315	749,583,078.709	420.00	73,858.3	1,566.9	14,849.9	224,552.7
2049	5	34,682,114.534	524,444,063.576	641,351,054.225	419.37	23,466.1	11,016.2	14,544.5	219,933.8
2049	6	37,210,860.654	562,682,386.369	749,134,839.368	419.17	3,283.6	59,274.6	15,597.8	235,862.1
2049	7	40,300,099.988	609,396,182.567	976,494,172.642	418.97	40.8	136,877.8	16,884.5	255,318.9
2049	8	40,779,852.607	616,650,740.611	1,000,488,804.792	419.20	0.0	143,809.2	17,094.8	258,498.5
2049	9	40,878,052.964	618,135,672.965	901,283,585.021	419.27	145.1	101,432.3	17,139.1	259,168.2
2049	10	35,642,331.434	538,963,941.033	666,402,263.749	419.31	8,081.4	30,409.2	14,945.0	225,990.7
2049	11	34,664,644.790	524,179,895.606	668,489,043.646	419.75	43,116.9	2,905.9	14,550.3	220,022.2
2049	12	43,011,282.403	650,393,207.737	938,770,044.670	420.41	103,116.5	37.6	18,082.4	273,431.9
2050	1	48,132,535.469	735,956,483.561	1,150,934,409.020	421.09	154,476.2	0.0	20,268.3	309,906.5
2050	2	37,865,638.578	578,973,493.591	1,008,624,500.551	420.88	164,893.4	0.0	15,936.8	243,676.6
2050	3	35,468,324.964	542,318,069.552	892,965,858.540	420.99	132,496.7	189.2	14,931.6	228,308.0
2050	4	35,170,023.836	537,756,983.225	752,290,975.433	420.03	73,763.7	1,574.5	14,772.5	225,873.9
2050	5	34,502,289.638	527,547,188.383	644,321,777.746	419.39	23,435.3	11,069.0	14,470.0	221,248.6
2050	6	37,012,747.837	565,932,616.665	752,840,754.709	419.20	3,279.2	59,556.9	15,515.7	237,238.9
2050	7	40,069,811.641	612,675,758.407	981,068,926.547	419.00	40.7	137,525.3	16,789.1	256,708.4
2050	8	40,536,372.647	619,809,573.277	1,004,994,675.777	419.22	0.0	144,484.6	16,993.8	259,838.3
2050	9	40,635,870.096	621,330,909.970	905,349,318.743	419.30	144.9	101,905.1	17,038.6	260,523.4
2050	10	35,446,787.677	541,988,759.948	669,532,810.311	419.33	8,069.3	30,549.9	14,863.9	227,272.5
2050	11	34,474,355.193	527,120,064.910	671,106,826.190	419.77	43,050.9	2,919.2	14,471.3	221,269.5
2050	12	42,750,615.817	653,665,812.117	941,385,411.229	420.44	102,955.8	37.8	17,973.9	274,824.1
2051	1	47,703,372.311	739,370,530.371	1,154,796,101.154	421.12	154,854.9	0.0	20,088.8	311,363.1
2051	2	37,548,609.871	581,978,469.242	1,012,246,116.657	420.90	165,296.6	0.0	15,804.3	244,956.4
2051	3	35,181,862.899	545,295,465.935	896,406,989.870	421.01	132,819.7	190.3	14,812.0	229,575.7
2051	4	34,891,696.387	540,798,078.073	755,489,685.705	420.06	73,942.3	1,583.7	14,656.5	227,165.5
2051	5	34,233,257.445	530,592,712.569	647,381,713.938	419.42	23,491.6	11,133.8	14,358.0	222,540.0
2051	6	36,720,440.785	569,142,399.452	756,595,532.452	419.23	3,287.0	59,904.1	15,394.2	238,599.6
2051	7	39,739,364.847	615,933,713.706	985,881,862.433	419.02	40.8	138,324.0	16,651.7	258,089.9
2051	8	40,192,339.593	622,954,520.876	1,009,766,887.486	419.25	0.0	145,320.3	16,850.6	261,173.3
2051	9	40,292,433.986	624,505,917.355	909,565,795.084	419.33	145.2	102,492.0	16,895.7	261,871.4

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2051	10	35,161,421.902	544,978,644.079	672,693,302.824	419.36	8,087.8	30,725.1	14,745.2	228,540.9
2051	11	34,196,213.130	530,018,550.341	673,992,289.720	419.80	43,148.4	2,935.9	14,355.5	222,500.5
2051	12	42,381,917.107	656,891,515.456	944,774,942.279	420.46	103,186.2	38.0	17,820.0	276,198.3
2052	1	47,278,237.917	742,816,560.348	1,158,700,684.102	421.15	155,237.3	0.0	19,911.1	312,835.0
2052	2	37,234,318.319	585,010,556.211	1,015,903,031.548	420.93	165,703.0	0.0	15,673.1	246,249.3
2052	3	34,897,666.166	548,298,022.260	899,878,412.194	421.04	133,144.8	191.4	14,693.3	230,855.6
2052	4	34,615,368.548	543,862,676.202	758,714,695.706	420.09	74,121.7	1,593.0	14,541.4	228,468.6
2052	5	33,965,963.447	533,659,485.803	650,464,937.482	419.45	23,548.0	11,198.7	14,246.9	223,841.8
2052	6	36,429,897.307	572,371,818.490	760,372,971.707	419.26	3,294.8	60,252.3	15,273.5	239,970.3
2052	7	39,410,941.612	619,208,781.413	990,715,717.233	419.05	40.9	139,124.5	16,515.2	259,480.5
2052	8	39,850,437.118	626,113,957.128	1,014,556,291.882	419.28	0.0	146,157.3	16,708.5	262,516.4
2052	9	39,951,015.125	627,694,198.109	913,796,993.478	419.36	145.6	103,079.5	16,753.7	263,226.9
2052	10	34,877,442.355	547,980,273.915	675,865,981.683	419.39	8,106.2	30,900.3	14,627.2	229,816.0
2052	11	33,919,336.683	532,926,904.934	676,885,667.232	419.83	43,245.0	2,952.6	14,240.3	223,737.4
2052	12	42,015,275.245	660,127,018.570	948,168,537.012	420.49	103,414.0	38.2	17,667.1	277,578.7
2053	1	46,855,694.834	746,271,032.813	1,162,605,175.816	421.18	155,616.2	0.0	19,734.6	314,313.0
2053	2	36,921,605.139	588,050,705.427	1,019,557,531.455	420.96	166,105.7	0.0	15,542.6	247,547.5
2053	3	34,614,705.851	551,308,701.686	903,349,354.213	421.07	133,466.7	192.5	14,575.3	232,140.8
2053	4	34,340,126.867	546,935,479.981	761,943,382.232	420.12	74,299.4	1,602.3	14,426.9	229,777.1
2053	5	33,699,619.732	536,734,117.626	653,555,028.597	419.48	23,603.9	11,263.7	14,136.3	225,148.9
2053	6	36,140,422.660	575,608,805.728	764,158,042.296	419.29	3,302.6	60,600.7	15,153.3	241,346.2
2053	7	39,083,981.106	622,490,885.038	995,556,104.836	419.08	41.0	139,925.4	16,379.5	260,876.3
2053	8	39,510,228.734	629,279,734.483	1,019,351,418.834	419.31	0.0	146,994.6	16,567.1	263,864.5
2053	9	39,611,252.457	630,888,740.129	918,034,290.475	419.39	145.9	103,667.1	16,612.5	264,587.5
2053	10	34,594,582.032	550,988,189.462	679,044,776.275	419.42	8,124.3	31,075.6	14,509.7	231,095.9
2053	11	33,643,556.031	535,841,190.607	679,782,230.135	419.86	43,340.4	2,969.2	14,125.6	224,978.9
2053	12	41,650,548.309	663,368,621.752	951,561,375.487	420.53	103,639.1	38.5	17,515.2	278,964.2
2054	1	46,435,649.531	749,731,287.390	1,166,508,541.253	421.21	155,992.6	0.0	19,559.3	315,796.3
2054	2	36,610,430.206	591,097,254.963	1,023,210,430.172	421.00	166,505.8	0.0	15,412.9	248,850.7
2054	3	34,332,988.124	554,326,592.744	906,821,522.532	421.11	133,786.8	193.7	14,457.9	233,431.3
2054	4	34,066,030.326	550,016,399.697	765,177,576.037	420.15	74,476.1	1,611.6	14,313.0	231,091.2
2054	5	33,434,339.842	539,817,379.656	656,653,897.699	419.52	23,659.6	11,328.9	14,026.2	226,461.7
2054	6	35,852,191.359	578,855,036.056	767,954,670.203	419.32	3,310.3	60,950.2	15,033.7	242,728.3

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Lighting Usage	Other Usage	Total Usage	Customers	Heating	Cooling	Lighting	Other
2054	7	38,758,709.844	625,782,512.412	1,000,410,823.291	419.12	41.1	140,728.9	16,244.6	262,278.6
2054	8	39,171,979.480	632,454,997.431	1,024,161,565.360	419.35	0.0	147,834.8	16,426.7	265,219.0
2054	9	39,273,468.787	634,093,602.888	922,286,612.073	419.43	146.2	104,256.9	16,472.3	265,954.8
2054	10	34,313,202.659	554,007,144.586	682,236,720.418	419.46	8,142.4	31,251.5	14,392.9	232,382.5
2054	11	33,369,279.365	538,766,939.410	682,690,680.829	419.90	43,435.7	2,986.0	14,011.7	226,227.3
2054	12	41,288,275.166	666,623,854.878	954,968,490.660	420.56	103,864.4	38.7	17,364.4	280,358.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2005	1	488,643.7
2005	2	440,355.4
2005	3	412,493.7
2005	4	344,580.8
2005	5	293,537.0
2005	6	335,192.8
2005	7	458,490.7
2005	8	465,155.7
2005	9	414,896.0
2005	10	321,725.6
2005	11	307,190.6
2005	12	444,340.1
2006	1	504,279.9
2006	2	411,092.8
2006	3	403,959.7
2006	4	329,687.4
2006	5	282,014.9
2006	6	338,715.6
2006	7	405,684.4
2006	8	465,184.4
2006	9	373,821.2
2006	10	285,111.4
2006	11	339,198.3
2006	12	431,052.5
2007	1	467,883.6
2007	2	501,864.3
2007	3	448,404.8
2007	4	346,379.5
2007	5	301,706.6
2007	6	356,028.8
2007	7	417,984.7
2007	8	438,919.4
2007	9	424,774.4

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2007	10	331,458.1
2007	11	323,230.4
2007	12	445,560.3
2008	1	522,749.5
2008	2	488,702.7
2008	3	453,651.2
2008	4	365,739.5
2008	5	284,500.0
2008	6	323,141.0
2008	7	395,011.5
2008	8	417,054.4
2008	9	379,983.5
2008	10	302,486.7
2008	11	322,870.8
2008	12	469,985.8
2009	1	567,076.8
2009	2	513,981.1
2009	3	416,243.7
2009	4	344,847.5
2009	5	291,870.7
2009	6	303,658.8
2009	7	388,029.1
2009	8	362,944.5
2009	9	350,861.3
2009	10	309,526.3
2009	11	319,093.0
2009	12	432,807.0
2010	1	558,976.2
2010	2	474,318.1
2010	3	415,203.3
2010	4	316,979.4
2010	5	273,901.2
2010	6	361,755.9

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2010	7	457,255.2
2010	8	484,939.1
2010	9	414,605.0
2010	10	292,654.1
2010	11	301,422.7
2010	12	442,372.1
2011	1	549,128.9
2011	2	483,938.2
2011	3	406,616.6
2011	4	332,629.8
2011	5	309,127.6
2011	6	355,307.0
2011	7	432,548.2
2011	8	506,164.5
2011	9	385,359.3
2011	10	284,872.7
2011	11	302,099.1
2011	12	418,775.9
2012	1	484,007.1
2012	2	426,443.4
2012	3	376,855.2
2012	4	296,464.2
2012	5	288,002.6
2012	6	354,920.4
2012	7	483,118.4
2012	8	476,098.7
2012	9	374,596.6
2012	10	282,859.3
2012	11	318,367.1
2012	12	399,502.0
2013	1	486,564.9
2013	2	453,608.2
2013	3	436,849.2

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2013	4	373,187.2
2013	5	293,236.4
2013	6	318,773.4
2013	7	398,054.9
2013	8	380,629.9
2013	9	384,358.2
2013	10	298,602.9
2013	11	314,867.2
2013	12	440,923.9
2014	1	561,007.4
2014	2	517,096.2
2014	3	463,231.6
2014	4	360,340.9
2014	5	287,799.1
2014	6	326,218.3
2014	7	381,094.7
2014	8	344,237.7
2014	9	372,306.9
2014	10	273,534.3
2014	11	306,798.8
2014	12	449,054.6
2015	1	499,425.2
2015	2	460,892.8
2015	3	450,593.9
2015	4	334,597.3
2015	5	274,260.1
2015	6	312,546.4
2015	7	358,740.5
2015	8	388,965.6
2015	9	365,295.1
2015	10	285,072.5
2015	11	269,030.9
2015	12	379,011.8

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2016	1	445,260.6
2016	2	425,348.1
2016	3	359,360.9
2016	4	310,172.5
2016	5	262,908.4
2016	6	327,594.3
2016	7	395,509.8
2016	8	447,357.7
2016	9	410,532.7
2016	10	304,937.9
2016	11	265,599.4
2016	12	402,933.2
2017	1	483,390.7
2017	2	382,247.2
2017	3	336,739.7
2017	4	303,967.6
2017	5	256,626.8
2017	6	303,483.3
2017	7	381,910.0
2017	8	387,520.0
2017	9	327,813.9
2017	10	305,261.2
2017	11	285,937.9
2017	12	398,988.1
2018	1	521,142.1
2018	2	419,286.6
2018	3	364,077.7
2018	4	352,397.9
2018	5	279,111.5
2018	6	347,244.9
2018	7	422,487.9
2018	8	399,275.6
2018	9	400,610.7

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2018	10	308,016.9
2018	11	306,573.7
2018	12	415,051.2
2019	1	432,921.5
2019	2	426,523.5
2019	3	381,576.1
2019	4	313,528.1
2019	5	259,606.9
2019	6	294,323.5
2019	7	378,104.8
2019	8	387,968.4
2019	9	352,401.8
2019	10	266,326.5
2019	11	276,613.4
2019	12	397,089.2
2020	1	487,562.8
2020	2	429,932.4
2020	3	377,673.1
2020	4	310,391.0
2020	5	257,137.2
2020	6	291,826.6
2020	7	375,310.1
2020	8	385,247.0
2020	9	349,835.0
2020	10	263,991.2
2020	11	273,943.5
2020	12	393,121.6
2021	1	483,346.7
2021	2	425,855.5
2021	3	374,012.3
2021	4	307,430.2
2021	5	254,790.0
2021	6	289,531.5

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2021	7	372,874.3
2021	8	382,913.3
2021	9	347,597.9
2021	10	261,876.5
2021	11	271,519.5
2021	12	390,597.1
2022	1	481,057.7
2022	2	423,694.7
2022	3	372,101.7
2022	4	305,924.2
2022	5	253,625.7
2022	6	288,526.9
2022	7	372,007.5
2022	8	382,108.6
2022	9	346,705.8
2022	10	260,805.7
2022	11	270,175.4
2022	12	388,766.2
2023	1	479,108.8
2023	2	421,732.4
2023	3	370,325.1
2023	4	304,529.1
2023	5	252,596.8
2023	6	287,674.0
2023	7	371,295.8
2023	8	381,456.2
2023	9	345,987.2
2023	10	259,930.1
2023	11	269,054.0
2023	12	387,102.5
2024	1	477,374.3
2024	2	420,037.7
2024	3	368,824.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2024	4	303,374.1
2024	5	251,775.5
2024	6	287,047.6
2024	7	370,831.8
2024	8	381,050.6
2024	9	345,487.0
2024	10	259,210.0
2024	11	268,043.1
2024	12	385,627.6
2025	1	475,819.9
2025	2	418,487.2
2025	3	367,487.9
2025	4	302,430.1
2025	5	251,176.8
2025	6	286,716.0
2025	7	370,770.7
2025	8	381,019.1
2025	9	345,314.8
2025	10	258,738.6
2025	11	267,257.1
2025	12	384,438.7
2026	1	474,611.1
2026	2	417,234.0
2026	3	366,392.6
2026	4	301,654.8
2026	5	250,716.8
2026	6	286,505.3
2026	7	370,817.5
2026	8	381,105.1
2026	9	345,254.2
2026	10	258,369.0
2026	11	266,594.1
2026	12	383,516.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2027	1	473,694.4
2027	2	416,275.0
2027	3	365,595.3
2027	4	301,143.5
2027	5	250,504.2
2027	6	286,599.2
2027	7	371,250.1
2027	8	381,579.1
2027	9	345,572.1
2027	10	258,313.5
2027	11	266,239.7
2027	12	382,833.8
2028	1	473,022.9
2028	2	415,554.0
2028	3	365,017.5
2028	4	300,847.3
2028	5	250,487.2
2028	6	286,917.9
2028	7	371,950.3
2028	8	382,304.1
2028	9	346,087.2
2028	10	258,407.1
2028	11	266,007.2
2028	12	382,384.9
2029	1	473,273.8
2029	2	415,646.7
2029	3	365,246.2
2029	4	301,358.6
2029	5	251,248.7
2029	6	288,034.6
2029	7	373,504.7
2029	8	383,897.4
2029	9	347,512.3

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2029	10	259,397.8
2029	11	266,730.4
2029	12	382,975.6
2030	1	472,379.8
2030	2	414,760.6
2030	3	364,520.8
2030	4	300,927.1
2030	5	251,148.0
2030	6	288,375.9
2030	7	374,335.2
2030	8	384,749.1
2030	9	348,076.2
2030	10	259,423.6
2030	11	266,371.8
2030	12	382,359.4
2031	1	471,830.3
2031	2	414,192.6
2031	3	364,105.7
2031	4	300,792.2
2031	5	251,330.8
2031	6	289,057.3
2031	7	375,600.7
2031	8	386,042.2
2031	9	349,045.4
2031	10	259,774.7
2031	11	266,334.3
2031	12	382,014.7
2032	1	471,531.4
2032	2	413,823.7
2032	3	363,888.0
2032	4	300,864.5
2032	5	251,722.7
2032	6	289,931.8

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2032	7	377,022.3
2032	8	387,477.3
2032	9	350,177.9
2032	10	260,311.5
2032	11	266,472.5
2032	12	381,916.4
2033	1	471,571.8
2033	2	413,750.5
2033	3	363,942.4
2033	4	301,187.8
2033	5	252,337.3
2033	6	291,014.6
2033	7	378,642.0
2033	8	389,103.1
2033	9	351,510.9
2033	10	261,060.2
2033	11	266,837.6
2033	12	382,002.7
2034	1	471,804.0
2034	2	413,836.8
2034	3	364,159.2
2034	4	301,685.5
2034	5	253,124.1
2034	6	292,252.1
2034	7	380,390.3
2034	8	390,858.9
2034	9	353,003.9
2034	10	262,002.6
2034	11	267,414.2
2034	12	382,531.0
2035	1	472,440.2
2035	2	414,321.7
2035	3	364,747.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2035	4	302,497.1
2035	5	254,172.3
2035	6	293,762.7
2035	7	382,452.7
2035	8	392,928.0
2035	9	354,796.6
2035	10	263,212.2
2035	11	268,288.1
2035	12	383,349.1
2036	1	473,336.8
2036	2	415,045.2
2036	3	365,558.7
2036	4	303,507.1
2036	5	255,397.2
2036	6	295,456.8
2036	7	384,710.5
2036	8	395,182.5
2036	9	356,762.6
2036	10	264,578.6
2036	11	269,317.2
2036	12	384,151.1
2037	1	474,107.6
2037	2	415,626.6
2037	3	366,227.9
2037	4	304,398.2
2037	5	256,519.5
2037	6	297,009.2
2037	7	386,758.3
2037	8	397,217.8
2037	9	358,539.8
2037	10	265,816.7
2037	11	270,216.0
2037	12	385,067.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2038	1	475,023.6
2038	2	416,357.2
2038	3	367,037.7
2038	4	305,403.4
2038	5	257,729.6
2038	6	298,646.6
2038	7	388,898.6
2038	8	399,347.7
2038	9	360,414.9
2038	10	267,153.6
2038	11	271,238.2
2038	12	386,051.8
2039	1	476,003.8
2039	2	417,161.6
2039	3	367,910.1
2039	4	306,446.5
2039	5	258,953.7
2039	6	300,282.5
2039	7	391,029.3
2039	8	401,471.3
2039	9	362,293.6
2039	10	268,511.5
2039	11	272,308.7
2039	12	387,161.4
2040	1	476,129.0
2040	2	417,264.3
2040	3	368,106.1
2040	4	306,806.7
2040	5	259,531.8
2040	6	301,316.4
2040	7	392,590.8
2040	8	403,023.7
2040	9	363,530.8

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2040	10	269,178.0
2040	11	272,649.0
2040	12	387,096.7
2041	1	476,254.2
2041	2	417,321.5
2041	3	368,265.8
2041	4	307,177.2
2041	5	260,146.9
2041	6	302,346.5
2041	7	394,067.4
2041	8	404,480.7
2041	9	364,719.5
2041	10	269,867.6
2041	11	273,005.9
2041	12	387,372.7
2042	1	476,623.2
2042	2	417,612.2
2042	3	368,649.0
2042	4	307,743.1
2042	5	260,924.0
2042	6	303,527.5
2042	7	395,701.2
2042	8	406,103.5
2042	9	366,089.6
2042	10	270,747.6
2042	11	273,591.0
2042	12	387,871.3
2043	1	477,260.3
2043	2	418,153.9
2043	3	369,265.5
2043	4	308,513.6
2043	5	261,871.8
2043	6	304,868.2

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2043	7	397,501.5
2043	8	407,892.5
2043	9	367,632.2
2043	10	271,800.7
2043	11	274,371.0
2043	12	388,574.8
2044	1	478,196.0
2044	2	418,966.3
2044	3	370,132.4
2044	4	309,501.6
2044	5	263,000.6
2044	6	306,374.3
2044	7	399,464.5
2044	8	409,843.9
2044	9	369,349.1
2044	10	273,038.2
2044	11	275,364.5
2044	12	389,487.6
2045	1	479,152.9
2045	2	419,780.0
2045	3	371,000.6
2045	4	310,506.3
2045	5	264,152.6
2045	6	307,887.7
2045	7	401,411.0
2045	8	411,778.1
2045	9	371,065.1
2045	10	274,296.3
2045	11	276,375.9
2045	12	390,478.5
2046	1	480,186.3
2046	2	420,665.1
2046	3	371,929.6

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2046	4	311,553.1
2046	5	265,329.4
2046	6	309,414.3
2046	7	403,359.7
2046	8	413,710.1
2046	9	372,781.7
2046	10	275,563.8
2046	11	277,405.3
2046	12	391,502.2
2047	1	481,271.8
2047	2	421,598.2
2047	3	372,904.2
2047	4	312,641.0
2047	5	266,540.5
2047	6	310,966.7
2047	7	405,325.6
2047	8	415,658.2
2047	9	374,522.0
2047	10	276,867.3
2047	11	278,479.9
2047	12	392,579.0
2048	1	482,355.2
2048	2	422,526.7
2048	3	373,873.5
2048	4	313,723.6
2048	5	267,743.1
2048	6	312,491.1
2048	7	407,230.4
2048	8	417,537.6
2048	9	376,205.8
2048	10	278,141.5
2048	11	279,527.7
2048	12	393,610.1

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2049	1	483,467.8
2049	2	423,484.2
2049	3	374,869.5
2049	4	314,827.9
2049	5	268,960.5
2049	6	314,018.2
2049	7	409,122.0
2049	8	419,402.5
2049	9	377,884.7
2049	10	279,426.3
2049	11	280,595.3
2049	12	394,668.4
2050	1	484,651.0
2050	2	424,506.8
2050	3	375,925.5
2050	4	315,984.5
2050	5	270,222.8
2050	6	315,590.8
2050	7	411,063.5
2050	8	421,316.6
2050	9	379,612.0
2050	10	280,755.7
2050	11	281,710.9
2050	12	395,791.6
2051	1	486,306.7
2051	2	426,057.4
2051	3	377,397.8
2051	4	317,348.1
2051	5	271,523.3
2051	6	317,184.9
2051	7	413,106.4
2051	8	423,344.2
2051	9	381,404.3

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2051	10	282,099.0
2051	11	282,940.3
2051	12	397,242.4
2052	1	487,983.3
2052	2	427,625.4
2052	3	378,885.1
2052	4	318,724.8
2052	5	272,835.5
2052	6	318,790.9
2052	7	415,161.1
2052	8	425,382.1
2052	9	383,205.7
2052	10	283,449.7
2052	11	284,175.3
2052	12	398,698.1
2053	1	489,663.8
2053	2	429,195.9
2053	3	380,375.4
2053	4	320,105.7
2053	5	274,152.8
2053	6	320,402.8
2053	7	417,222.2
2053	8	427,426.2
2053	9	385,013.0
2053	10	284,805.4
2053	11	285,414.1
2053	12	400,157.0
2054	1	491,348.1
2054	2	430,769.5
2054	3	381,869.6
2054	4	321,491.8
2054	5	275,476.4
2054	6	322,022.5

Indiana Michigan Power Company - Indiana
Long-Term Residential Forecast Model Output

Year	Month	Total Energy
2054	7	419,293.1
2054	8	429,480.6
2054	9	386,830.2
2054	10	286,169.4
2054	11	286,660.6
2054	12	401,625.6

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD060n	
1996	1	1,188,141,278.87	454.76	0.00	622.53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	2	1,045,622,705.88	474.22	0.00	558.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	3	932,738,921.91	364.55	0.00	546.32	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	4	882,479,178.83	263.90	1.52	529.33	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	5	744,641,964.82	99.12	44.63	521.25	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	6	752,946,688.37	18.85	201.37	550.44	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	7	860,641,248.62	0.05	560.16	512.22	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1996	8	822,178,060.88	0.00	523.52	496.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
1996	9	875,456,120.49	0.81	585.32	524.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
1996	10	711,054,698.18	27.65	83.76	516.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
1996	11	759,452,983.05	149.12	0.00	512.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
1996	12	1,021,128,006.13	337.04	0.00	599.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	1	1,162,300,474.05	429.54	0.00	630.02	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	2	1,018,202,909.93	496.54	0.00	564.26	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	3	937,915,191.36	347.13	0.00	551.43	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	4	857,698,734.05	229.47	0.00	535.66	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	5	729,539,080.65	139.56	0.00	527.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	6	712,494,594.81	32.41	64.55	541.29	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	7	885,665,422.97	0.00	690.60	516.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1997	8	882,991,832.87	0.00	749.50	501.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
1997	9	771,474,885.49	0.24	291.51	526.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
1997	10	690,819,552.47	19.94	156.18	518.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
1997	11	797,290,585.13	181.86	34.82	515.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
1997	12	1,126,751,637.10	312.51	0.00	605.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	1	1,227,584,912.59	353.92	0.00	633.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	2	780,444,588.96	353.30	0.00	562.92	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	3	900,640,409.59	290.68	0.00	553.23	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	4	775,187,854.42	193.15	29.17	535.77	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	5	689,668,136.74	44.44	56.50	526.47	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	6	762,193,670.36	5.22	300.54	541.78	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	7	976,782,601.10	2.07	868.52	518.18	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1998	8	940,297,351.85	0.00	872.68	503.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
1998	9	906,739,938.17	0.10	736.45	530.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD06on	
2004	4	820,473,937.77	199.12	22.77	589.74	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2004	5	751,130,986.38	70.38	208.98	591.67	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2004	6	794,835,791.19	7.91	390.58	592.25	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2004	7	889,785,125.98	0.07	584.85	555.08	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2004	8	889,347,654.97	0.00	586.02	548.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2004	9	883,562,008.85	0.00	490.31	578.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2004	10	756,265,281.42	28.11	173.69	565.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2004	11	739,342,350.89	98.54	10.35	559.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2004	12	1,012,149,854.94	270.89	0.75	670.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	1	1,205,164,592.52	463.67	0.00	688.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	2	1,059,188,243.80	507.29	0.00	616.18	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	3	1,063,236,724.42	421.85	0.00	635.57	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	4	833,305,825.69	242.48	7.62	591.32	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	5	708,643,783.41	86.82	47.33	560.64	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	6	836,340,538.93	12.70	326.75	587.46	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	7	1,089,766,745.37	0.00	1,042.42	553.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2005	8	1,136,481,652.78	0.00	1,107.14	543.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2005	9	1,025,977,317.25	0.00	730.65	590.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2005	10	775,294,503.54	17.18	350.42	575.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2005	11	760,631,932.71	113.56	29.28	578.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2005	12	1,054,317,442.26	387.43	0.00	644.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2006	1	1,196,487,149.17	419.96	0.00	682.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	2	1,003,937,408.89	353.86	0.00	621.01	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1
2006	3	959,229,583.01	395.56	0.00	582.43	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	4	810,137,860.90	228.82	4.19	570.61	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	5	707,508,596.65	54.36	7.54	571.74	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	6	831,644,879.07	28.14	294.05	585.59	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	7	994,762,697.14	0.00	626.77	574.37	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2006	8	1,116,796,352.92	0.00	1,026.84	539.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0
2006	9	904,939,991.14	1.14	438.21	564.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0
2006	10	749,352,735.91	39.99	49.84	574.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0
2006	11	814,506,559.24	182.73	1.92	575.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0
2006	12	1,017,636,584.69	266.88	0.00	639.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD06on
2007	1	1,139,730,073.76	312.01	0.00	686.29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2007	2	1,138,443,929.66	547.32	0.00	607.23	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1
2007	3	1,026,768,486.09	492.37	1.16	582.83	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2007	4	866,172,436.27	197.45	30.54	598.48	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2007	5	724,550,568.51	76.48	74.65	562.97	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2007	6	859,662,901.14	4.73	476.37	578.15	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2007	7	1,004,454,660.64	0.00	808.61	560.12	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0
2007	8	1,014,547,769.47	0.00	858.20	529.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0
2007	9	1,024,137,204.84	0.99	737.84	586.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0
2007	10	766,541,329.52	10.13	392.18	546.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0
2007	11	789,927,004.62	109.62	79.76	580.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0
2007	12	1,079,815,227.76	345.94	0.00	659.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	1	1,236,344,007.39	434.62	0.00	687.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	2	1,159,432,869.23	534.57	0.00	608.86	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1
2008	3	1,052,860,215.74	488.90	0.00	582.27	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	4	898,644,054.13	272.43	0.75	581.61	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	5	718,605,891.19	81.92	19.25	566.57	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	6	798,943,040.99	23.92	309.53	572.98	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2008	7	935,203,630.10	0.01	639.79	563.42	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0
2008	8	1,038,440,376.13	0.00	801.22	552.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0
2008	9	907,739,835.76	0.00	511.55	557.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0
2008	10	746,127,998.39	18.20	157.04	560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0
2008	11	804,556,451.54	139.55	17.15	577.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0
2008	12	1,103,181,096.31	406.54	0.00	633.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	1	1,345,799,588.63	536.70	0.00	674.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	2	1,225,423,049.75	612.71	0.00	609.80	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1
2009	3	1,013,213,707.23	392.69	0.00	575.22	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	4	879,818,293.17	214.57	1.47	581.88	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	5	745,954,507.60	82.96	46.14	569.49	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	6	749,217,553.76	12.57	190.24	565.89	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0
2009	7	893,196,804.32	0.01	563.73	545.68	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0
2009	8	901,807,986.08	0.00	550.25	524.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0
2009	9	877,253,929.00	0.00	382.07	564.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD060n
2018	1	1,232,818,579.57	609.38	0.00	626.62	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	2	1,015,580,574.89	530.27	0.00	549.07	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2018	3	904,848,771.23	397.39	0.00	535.61	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2018	4	898,592,927.83	337.86	0.00	554.86	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2018	5	730,010,954.47	138.69	54.92	538.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2018	6	836,895,045.24	2.97	402.99	542.10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2018	7	1,051,902,159.92	0.00	741.84	533.03	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2018	8	990,472,815.68	0.00	729.21	511.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2018	9	975,658,702.42	0.00	692.60	529.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2018	10	729,865,610.61	29.73	276.88	520.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2018	11	755,292,380.73	209.84	29.87	531.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2018	12	1,012,024,307.70	396.48	0.00	602.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	1	1,070,080,301.49	403.55	0.00	616.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	2		507.90	0.00	548.36	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2019	3		415.21	1.90	533.56	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	4		241.10	12.00	536.63	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	5		85.07	60.60	525.75	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	6		15.48	289.89	538.19	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2019	7		0.47	696.02	527.72	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2019	8		0.00	764.25	506.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2019	9		0.59	557.95	525.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2019	10		28.01	165.93	517.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2019	11		136.60	15.50	522.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2019	12		319.02	0.05	587.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	1		466.10	0.00	607.32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	2		496.19	0.00	539.54	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2020	3		405.60	1.87	525.03	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	4		235.46	11.80	528.10	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	5		83.08	59.56	517.49	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	6		15.11	284.92	529.83	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2020	7		0.46	684.01	519.58	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2020	8		0.00	751.10	498.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2020	9		0.58	548.40	517.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD06on
2029	1		424.07	0.00	569.42	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	2		451.69	0.00	506.46	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2029	3		369.41	1.81	493.42	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2029	4		214.58	11.43	497.17	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2029	5		75.76	57.74	488.01	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2029	6		13.79	276.31	500.48	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2029	7		0.42	663.63	491.42	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2029	8		0.00	728.93	471.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2029	9		0.53	532.40	489.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2029	10		25.00	158.39	480.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2029	11		122.00	14.80	484.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2029	12		286.37	0.05	544.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	1		420.40	0.00	566.26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	2		447.81	0.00	503.76	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2030	3		366.25	1.81	490.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	4		212.76	11.44	494.78	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	5		75.12	57.80	485.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	6		13.67	276.63	498.46	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2030	7		0.42	664.42	489.54	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2030	8		0.00	729.83	470.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2030	9		0.53	533.08	487.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2030	10		24.80	158.60	478.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2030	11		121.02	14.82	481.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2030	12		284.11	0.05	542.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	1		417.10	0.00	563.89	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	2		444.30	0.00	501.74	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2031	3		363.39	1.82	489.02	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	4		211.10	11.48	493.01	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	5		74.53	57.96	484.26	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	6		13.57	277.39	497.02	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2031	7		0.42	666.24	488.20	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2031	8		0.00	731.84	468.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2031	9		0.52	534.55	485.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD06on	
2040	1		391.21	0.00	559.94	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	2		416.71	0.00	498.71	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2040	3		340.83	1.86	486.53	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	4		198.00	11.74	491.20	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	5		69.91	59.31	483.29	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	6		12.73	283.86	496.95	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	7		0.39	681.79	488.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2040	8		0.00	748.92	468.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2040	9		0.49	547.03	485.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2040	10		23.08	162.76	475.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2040	11		112.64	15.21	477.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2040	12		264.36	0.05	536.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	1		388.74	0.00	559.05	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	2		414.07	0.00	497.98	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2041	3		338.66	1.86	485.89	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	4		196.73	11.76	490.64	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	5		69.46	59.41	482.87	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	6		12.64	284.35	496.67	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	7		0.39	682.95	488.44	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2041	8		0.00	750.18	468.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2041	9		0.49	547.94	484.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2041	10		22.93	163.03	475.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2041	11		111.91	15.24	477.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2041	12		262.71	0.05	536.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	1		386.48	0.00	558.52	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	2		411.66	0.00	497.57	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2042	3		336.68	1.87	485.55	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	4		195.58	11.79	490.38	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	5		69.05	59.53	482.72	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	6		12.57	284.88	496.64	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	7		0.39	684.23	488.47	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2042	8		0.00	751.59	468.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2042	9		0.48	548.97	484.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Input Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	d0610	FebD060n
2051	1		370.72	0.00	562.10	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2051	2		394.83	0.00	501.01	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2051	3		322.89	1.90	489.17	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2051	4		187.56	11.97	494.46	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2051	5		66.21	60.43	487.17	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2051	6		12.05	289.21	501.72	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2051	7		0.37	694.55	493.86	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2051	8		0.00	762.84	473.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2051	9		0.46	557.12	489.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2051	10		21.85	165.74	479.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2051	11		106.60	15.49	480.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2051	12		250.14	0.05	538.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	1		370.30	0.00	562.59	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	2		394.38	0.00	501.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2052	3		322.52	1.90	489.63	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	4		187.34	11.99	494.97	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	5		66.13	60.57	487.71	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	6		12.04	289.84	502.32	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2052	7		0.37	696.07	494.49	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2052	8		0.00	764.49	474.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2052	9		0.46	558.31	490.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0
2052	10		21.82	166.09	479.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0
2052	11		106.46	15.52	480.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0
2052	12		249.80	0.05	539.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	1		369.86	0.00	563.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	2		393.91	0.00	501.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
2053	3		322.13	1.91	490.09	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	4		187.11	12.02	495.47	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	5		66.05	60.70	488.24	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	6		12.02	290.47	502.90	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2053	7		0.37	697.55	495.10	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0
2053	8		0.00	766.10	475.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
2053	9		0.46	559.48	490.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Coefficients

Variable	Coefficient	StdErr	T-Stat	P-Value	Definition
CONST	426122239.533	75100547.684	5.674	0.00%	Constant term
ResidentialVars.XHeat	676486.780	40753.844	16.599	0.00%	Residential Heating Component
ResidentialVars.XCool	345103.581	17419.063	19.812	0.00%	Residential Cooling Component
ResidentialVars.XOther	609299.856	116485.453	5.231	0.00%	Residential Other Component
BinaryVars.Jan	53746155.408	13940189.848	3.855	0.02%	January
BinaryVars.Feb	-70615618.208	14763164.645	-4.783	0.00%	February
BinaryVars.Mar	-76250207.503	12049582.682	-6.328	0.00%	March
BinaryVars.Apr	-90511453.765	12435576.301	-7.278	0.00%	April
BinaryVars.May	-114786041.639	16320977.455	-7.033	0.00%	May
BinaryVars.Jun	-94282201.063	18184662.541	-5.185	0.00%	June
BinaryVars.Jul	-54217866.581	23528272.553	-2.304	2.20%	July
BinaryVars.Aug	-49913698.986	25922457.865	-1.926	5.53%	August
BinaryVars.Sep	-55054545.901	21542844.464	-2.556	1.12%	September
BinaryVars.Oct	-105916268.974	18399768.422	-5.756	0.00%	October
BinaryVars.Nov	-86791564.193	15267664.057	-5.685	0.00%	November
BinaryVars.d0610	20350019.957	5224750.389	3.895	0.01%	Binary Variable - January 2006 through December 2010
BinaryVars.FebD06on	32205399.965	13966557.921	2.306	2.19%	Binary Variable - 2006 On Februaries
BinaryVars.JanD06on	35236509.313	14360416.576	2.454	1.48%	Binary Variable - 2006 On Januarys
BinaryVars.Feb98	-137462494.996	33718524.863	-4.077	0.01%	Binary Variable - February 1998
BinaryVars.d9801	-19591632.850	5537664.436	-3.538	0.05%	Binary Variable - 1998 On
BinaryVars.d16onjan	-73337911.745	19023889.162	-3.855	0.02%	Binary Variable - 2016 On Januarys
BinaryVars.d16onjul	60678957.265	19646031.195	3.089	0.22%	Binary Variable - 2016 On Julys
BinaryVars.d16onaug	61637464.927	19646787.566	3.137	0.19%	Binary Variable - 2016 On Augusts
BinaryVars.d15onmay	-24964894.226	17465650.800	-1.429	15.42%	Binary Variable - 2015 On Mays
BinaryVars.d15onnov	-47728143.780	17427116.346	-2.739	0.66%	Binary Variable - 2015 On November
BinaryVars.d18onoct	-23338833.902	32353063.309	-0.721	47.13%	Binary Variable - 2018 On October

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Statistics

Model Statistics		Forecast Statistics	
Iterations	1	Forecast Observations	0
Adjusted Observations	277	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	251	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.962	Avg. Forecast Error	0.00
Adjusted R-Squared	0.959	Mean % Error	0.00%
AIC	34.616	Root Mean-Square Error	0.00
BIC	34.956	Theil's Inequality Coefficient	0.0000
F-Statistic	257.513	-- Bias Proportion	0.00%
Prob (F-Statistic)	0.0000	-- Variance Proportion	0.00%
Log-Likelihood	-5,161.32	-- Covariance Proportion	0.00%
Model Sum of Squares	6,359,373,962,682,310,000.00		
Sum of Squared Errors	247,941,389,055,383,000.00		
Mean Squared Error	987,814,299,025,429.00		
Std. Error of Regression	31,429,513.18		
Mean Abs. Dev. (MAD)	22,666,293.88		
Mean Abs. % Err. (MAPE)	2.43%		
Durbin-Watson Statistic	1.334		
Durbin-H Statistic	#NA		
Ljung-Box Statistic	111.33		
Prob (Ljung-Box)	0.0000		
Skewness	0.680		
Kurtosis	5.141		
Jarque-Bera	74.285		
Prob (Jarque-Bera)	0.0000		

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
1996	1	1,166,816,453.447	426,122,239.533	307,638,802.007	0.000	379,309,256.499	53,746,155.408	0.000
1996	2	1,016,587,510.733	426,122,239.533	320,803,908.799	0.000	340,276,980.609	0.000	-70,615,618.208
1996	3	929,357,915.192	426,122,239.533	246,610,878.429	0.000	332,875,004.733	0.000	0.000
1996	4	837,179,935.617	426,122,239.533	178,526,803.525	524,536.158	322,517,810.167	0.000	0.000
1996	5	711,388,298.063	426,122,239.533	67,053,983.033	15,403,305.755	317,594,811.381	0.000	0.000
1996	6	749,467,590.074	426,122,239.533	12,749,856.735	69,492,799.357	335,384,895.512	0.000	0.000
1996	7	877,347,307.398	426,122,239.533	32,594.730	193,312,188.566	312,098,151.150	0.000	0.000
1996	8	859,306,911.920	426,122,239.533	0.000	180,670,326.030	302,428,045.342	0.000	0.000
1996	9	892,963,727.961	426,122,239.533	546,079.733	201,995,053.043	319,354,901.552	0.000	0.000
1996	10	682,598,992.240	426,122,239.533	18,702,214.018	28,906,976.713	314,783,830.950	0.000	0.000
1996	11	752,669,729.049	426,122,239.533	100,878,894.742	0.000	312,460,158.967	0.000	0.000
1996	12	1,019,190,836.880	426,122,239.533	228,000,065.779	0.000	365,068,531.568	0.000	0.000
1997	1	1,154,317,472.767	426,122,239.533	290,575,891.061	0.000	383,873,186.765	53,746,155.408	0.000
1997	2	1,035,216,344.569	426,122,239.533	335,905,634.241	0.000	343,804,089.003	0.000	-70,615,618.208
1997	3	920,686,602.390	426,122,239.533	234,828,224.840	0.000	335,986,345.520	0.000	0.000
1997	4	817,221,547.072	426,122,239.533	155,232,515.852	0.000	326,378,245.453	0.000	0.000
1997	5	726,986,724.652	426,122,239.533	94,413,314.906	0.000	321,237,211.853	0.000	0.000
1997	6	705,843,101.375	426,122,239.533	21,922,886.986	22,275,122.317	329,805,053.602	0.000	0.000
1997	7	925,021,547.165	426,122,239.533	0.000	238,327,374.215	314,789,799.999	0.000	0.000
1997	8	940,216,951.107	426,122,239.533	0.000	258,653,443.111	305,354,967.449	0.000	0.000
1997	9	792,506,753.190	426,122,239.533	165,198.861	100,600,341.756	320,673,518.940	0.000	0.000
1997	10	703,331,263.755	426,122,239.533	13,488,693.665	53,896,710.730	315,739,888.801	0.000	0.000
1997	11	788,374,153.535	426,122,239.533	123,028,211.108	12,018,050.600	313,997,216.488	0.000	0.000
1997	12	1,006,350,573.587	426,122,239.533	211,408,035.723	0.000	368,820,298.331	0.000	0.000
1998	1	1,085,522,311.966	426,122,239.533	239,424,326.508	0.000	385,821,223.367	53,746,155.408	0.000
1998	2	780,444,588.965	426,122,239.533	239,005,161.673	0.000	342,986,933.812	0.000	-70,615,618.208
1998	3	864,004,353.839	426,122,239.533	196,640,224.573	0.000	337,083,730.086	0.000	0.000
1998	4	783,195,035.631	426,122,239.533	130,665,827.688	10,066,323.205	326,443,731.821	0.000	0.000
1998	5	662,081,624.298	426,122,239.533	30,061,026.060	19,496,974.439	320,779,058.755	0.000	0.000
1998	6	749,599,983.547	426,122,239.533	3,529,477.075	103,716,778.428	330,105,322.424	0.000	0.000
1998	7	969,169,512.926	426,122,239.533	1,398,795.762	299,729,004.199	315,728,972.863	0.000	0.000
1998	8	964,337,556.154	426,122,239.533	0.000	301,163,316.995	306,557,331.462	0.000	0.000
1998	9	929,113,867.672	426,122,239.533	66,850.090	254,151,360.526	323,419,596.273	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
1998	10	738,687,663.763	426,122,239.533	10,693,526.318	108,454,043.787	318,925,755.949	0.000	0.000
1998	11	711,566,619.296	426,122,239.533	69,440,599.764	5,544,770.412	316,842,206.630	0.000	0.000
1998	12	890,975,371.247	426,122,239.533	114,830,481.866	0.000	369,614,282.697	0.000	0.000
1999	1	1,173,141,213.270	426,122,239.533	321,751,002.610	0.000	391,113,448.569	53,746,155.408	0.000
1999	2	961,124,418.989	426,122,239.533	273,898,114.231	0.000	351,311,316.282	0.000	-70,615,618.208
1999	3	922,511,263.199	426,122,239.533	249,794,390.549	0.000	342,436,473.470	0.000	0.000
1999	4	794,693,301.326	426,122,239.533	146,323,763.051	0.000	332,350,385.357	0.000	0.000
1999	5	674,744,316.862	426,122,239.533	34,357,279.454	21,612,441.346	327,030,031.018	0.000	0.000
1999	6	822,559,164.301	426,122,239.533	2,427,833.328	172,567,713.395	335,315,211.958	0.000	0.000
1999	7	1,018,486,529.806	426,122,239.533	0.000	345,969,104.572	320,204,685.132	0.000	0.000
1999	8	1,100,964,975.264	426,122,239.533	0.000	433,219,981.980	311,128,085.586	0.000	0.000
1999	9	877,410,020.768	426,122,239.533	213,004.247	198,462,085.702	327,258,870.037	0.000	0.000
1999	10	698,564,948.327	426,122,239.533	17,434,387.379	56,590,708.738	323,925,514.500	0.000	0.000
1999	11	706,228,382.009	426,122,239.533	60,347,336.993	4,412,924.756	321,729,077.771	0.000	0.000
1999	12	947,852,105.338	426,122,239.533	147,252,494.625	265,539.616	393,803,464.414	0.000	0.000
2000	1	1,120,775,773.204	426,122,239.533	260,622,792.451	0.000	399,876,218.662	53,746,155.408	0.000
2000	2	1,014,964,676.662	426,122,239.533	320,433,819.448	0.000	358,615,868.738	0.000	-70,615,618.208
2000	3	844,587,959.346	426,122,239.533	159,858,588.479	3,432,351.181	351,016,620.507	0.000	0.000
2000	4	773,483,314.176	426,122,239.533	114,712,654.034	2,095,178.923	340,656,328.302	0.000	0.000
2000	5	726,238,599.115	426,122,239.533	52,729,539.826	46,996,642.136	334,767,852.109	0.000	0.000
2000	6	767,212,554.524	426,122,239.533	6,433,275.230	105,772,187.922	342,758,685.751	0.000	0.000
2000	7	895,935,488.039	426,122,239.533	629,047.565	215,589,396.668	327,404,303.705	0.000	0.000
2000	8	895,621,604.840	426,122,239.533	0.000	221,228,233.190	317,776,463.953	0.000	0.000
2000	9	947,633,686.286	426,122,239.533	977,968.026	259,762,937.326	335,416,720.151	0.000	0.000
2000	10	719,301,678.586	426,122,239.533	22,700,222.214	64,825,457.550	331,161,661.112	0.000	0.000
2000	11	714,320,957.767	426,122,239.533	61,292,268.011	4,407,813.050	328,881,834.216	0.000	0.000
2000	12	1,057,744,376.696	426,122,239.533	266,508,142.710	0.000	384,705,627.302	0.000	0.000
2001	1	1,256,207,382.259	426,122,239.533	389,901,761.486	0.000	406,028,858.681	53,746,155.408	0.000
2001	2	1,011,965,155.170	426,122,239.533	311,994,812.395	0.000	364,055,354.300	0.000	-70,615,618.208
2001	3	943,792,182.639	426,122,239.533	257,415,548.605	0.000	356,096,234.854	0.000	0.000
2001	4	829,558,815.835	426,122,239.533	163,614,712.108	4,409,983.636	345,514,967.173	0.000	0.000
2001	5	718,034,847.092	426,122,239.533	29,602,098.603	53,634,949.019	343,053,234.425	0.000	0.000
2001	6	758,933,624.522	426,122,239.533	9,969,446.460	89,491,445.029	347,224,327.413	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2001	7	935,690,986.424	426,122,239.533	1,130,386.316	250,297,738.368	331,950,121.638	0.000	0.000
2001	8	1,095,241,371.040	426,122,239.533	0.000	416,364,307.460	322,260,155.883	0.000	0.000
2001	9	928,010,509.891	426,122,239.533	342,963.302	235,967,160.237	340,224,325.569	0.000	0.000
2001	10	690,175,341.319	426,122,239.533	19,014,240.840	34,541,964.029	336,004,798.741	0.000	0.000
2001	11	716,332,020.022	426,122,239.533	60,874,964.955	1,827,752.645	333,890,259.932	0.000	0.000
2001	12	897,549,549.035	426,122,239.533	100,790,774.172	0.000	390,228,168.179	0.000	0.000
2002	1	1,158,895,283.882	426,122,239.533	268,528,694.525	0.000	410,498,194.416	53,746,155.408	0.000
2002	2	954,074,663.294	426,122,239.533	230,639,498.756	0.000	367,928,543.213	0.000	-70,615,618.208
2002	3	942,839,309.662	426,122,239.533	232,326,630.869	0.000	360,640,646.763	0.000	0.000
2002	4	886,948,338.473	426,122,239.533	182,102,604.418	16,896,720.642	352,338,227.646	0.000	0.000
2002	5	756,793,535.626	426,122,239.533	66,573,389.777	36,012,365.455	342,871,582.501	0.000	0.000
2002	6	797,162,401.136	426,122,239.533	25,302,601.504	88,852,727.086	351,167,034.077	0.000	0.000
2002	7	1,120,679,230.523	426,122,239.533	0.000	412,768,307.721	336,006,549.850	0.000	0.000
2002	8	1,148,047,983.186	426,122,239.533	0.000	445,661,213.462	326,178,229.176	0.000	0.000
2002	9	1,009,714,999.380	426,122,239.533	0.000	294,594,574.538	344,052,731.209	0.000	0.000
2002	10	801,793,441.857	426,122,239.533	16,545,534.378	125,259,089.999	339,782,846.920	0.000	0.000
2002	11	805,464,989.536	426,122,239.533	120,458,974.156	7,791,352.748	337,883,987.292	0.000	0.000
2002	12	1,059,607,178.801	426,122,239.533	238,967,780.089	0.000	394,517,159.180	0.000	0.000
2003	1	1,189,754,276.666	426,122,239.533	297,148,215.302	0.000	412,737,666.423	53,746,155.408	0.000
2003	2	1,089,440,419.154	426,122,239.533	369,395,307.875	0.000	364,538,489.955	0.000	-70,615,618.208
2003	3	1,030,010,230.629	426,122,239.533	317,697,454.414	0.000	362,440,744.185	0.000	0.000
2003	4	825,204,915.719	426,122,239.533	132,506,915.330	5,348,974.254	351,738,240.367	0.000	0.000
2003	5	721,829,697.382	426,122,239.533	52,324,585.562	12,945,562.046	345,223,351.881	0.000	0.000
2003	6	723,622,367.589	426,122,239.533	13,738,284.240	24,179,059.028	353,864,985.851	0.000	0.000
2003	7	948,660,673.098	426,122,239.533	720,358.587	234,846,639.018	341,189,302.540	0.000	0.000
2003	8	961,474,483.783	426,122,239.533	0.000	252,900,470.585	332,365,472.652	0.000	0.000
2003	9	983,251,058.890	426,122,239.533	47,345.623	268,122,217.499	344,013,802.136	0.000	0.000
2003	10	737,940,878.118	426,122,239.533	31,511,324.107	44,122,889.725	342,100,693.727	0.000	0.000
2003	11	756,235,333.248	426,122,239.533	79,939,189.448	1,311,021.858	335,654,446.602	0.000	0.000
2003	12	1,010,452,777.502	426,122,239.533	182,518,174.253	0.000	401,812,363.716	0.000	0.000
2004	1	1,176,574,556.054	426,122,239.533	276,258,153.995	0.000	420,448,007.118	53,746,155.408	0.000
2004	2	1,124,275,316.892	426,122,239.533	392,633,707.825	0.000	376,134,987.743	0.000	-70,615,618.208
2004	3	958,206,520.311	426,122,239.533	250,919,454.016	0.000	357,415,034.266	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2004	4	837,500,547.636	426,122,239.533	134,702,062.750	7,859,279.135	359,328,419.983	0.000	0.000
2004	5	791,575,046.078	426,122,239.533	47,613,616.672	72,120,676.506	360,504,555.006	0.000	0.000
2004	6	832,841,036.759	426,122,239.533	5,349,206.224	134,792,084.957	360,859,707.108	0.000	0.000
2004	7	911,995,196.080	426,122,239.533	48,479.885	201,832,700.609	338,209,642.635	0.000	0.000
2004	8	912,850,465.110	426,122,239.533	0.000	202,238,471.576	334,403,452.987	0.000	0.000
2004	9	892,486,322.275	426,122,239.533	0.000	169,207,046.688	352,211,581.954	0.000	0.000
2004	10	743,865,715.239	426,122,239.533	19,013,169.385	59,940,709.879	344,705,865.415	0.000	0.000
2004	11	750,414,589.992	426,122,239.533	66,663,327.944	3,573,118.759	340,847,467.950	0.000	0.000
2004	12	1,018,197,830.541	426,122,239.533	183,256,435.795	257,684.386	408,561,470.827	0.000	0.000
2005	1	1,213,039,572.232	426,122,239.533	313,667,490.674	0.000	419,503,686.617	53,746,155.408	0.000
2005	2	1,074,122,056.759	426,122,239.533	343,178,036.896	0.000	375,437,398.538	0.000	-70,615,618.208
2005	3	1,022,499,265.950	426,122,239.533	285,373,655.818	0.000	387,253,578.102	0.000	0.000
2005	4	862,565,649.761	426,122,239.533	164,037,263.784	2,628,920.611	360,288,679.599	0.000	0.000
2005	5	728,007,005.772	426,122,239.533	58,735,158.296	16,335,273.723	341,600,375.860	0.000	0.000
2005	6	811,132,897.217	426,122,239.533	8,588,354.058	112,763,537.062	357,940,967.626	0.000	0.000
2005	7	1,068,980,961.412	426,122,239.533	0.000	359,743,677.547	337,332,910.914	0.000	0.000
2005	8	1,089,317,719.894	426,122,239.533	0.000	382,077,988.741	331,031,190.605	0.000	0.000
2005	9	982,904,390.435	426,122,239.533	0.000	252,151,071.039	359,685,625.764	0.000	0.000
2005	10	803,192,885.164	426,122,239.533	11,623,356.401	120,932,385.620	350,431,172.584	0.000	0.000
2005	11	778,487,844.149	426,122,239.533	76,819,422.952	10,104,740.667	352,233,005.190	0.000	0.000
2005	12	1,080,945,111.110	426,122,239.533	262,092,255.067	0.000	392,730,616.511	0.000	0.000
2006	1	1,235,213,271.024	426,122,239.533	284,097,143.063	0.000	415,661,203.751	53,746,155.408	0.000
2006	2	1,025,825,278.256	426,122,239.533	239,379,991.453	0.000	378,383,245.556	0.000	-70,615,618.208
2006	3	992,688,619.278	426,122,239.533	267,594,295.550	0.000	354,872,271.742	0.000	0.000
2006	4	859,878,021.851	426,122,239.533	154,795,145.061	1,447,092.380	347,674,978.686	0.000	0.000
2006	5	719,426,144.576	426,122,239.533	36,772,722.742	2,603,436.969	348,363,767.015	0.000	0.000
2006	6	829,506,071.951	426,122,239.533	19,038,673.183	101,479,148.199	356,798,192.142	0.000	0.000
2006	7	958,517,753.668	426,122,239.533	0.000	216,301,419.861	349,961,940.899	0.000	0.000
2006	8	1,079,526,407.569	426,122,239.533	0.000	354,365,120.414	328,602,726.651	0.000	0.000
2006	9	887,622,766.003	426,122,239.533	770,068.529	151,229,267.352	344,205,716.532	0.000	0.000
2006	10	734,902,461.035	426,122,239.533	27,054,632.436	17,198,583.361	350,093,254.722	0.000	0.000
2006	11	834,448,707.011	426,122,239.533	123,614,476.136	663,005.282	350,490,530.297	0.000	0.000
2006	12	1,016,885,826.593	426,122,239.533	180,538,919.616	0.000	389,874,647.487	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2007	1	1,164,678,465.690	426,122,239.533	211,069,412.849	0.000	418,154,128.630	53,746,155.408	0.000
2007	2	1,148,302,677.962	426,122,239.533	370,256,228.029	0.000	369,984,408.687	0.000	-70,615,618.208
2007	3	1,058,826,456.109	426,122,239.533	333,084,564.282	398,688.156	355,121,151.684	0.000	0.000
2007	4	864,723,421.227	426,122,239.533	133,571,203.955	10,539,375.859	364,652,035.689	0.000	0.000
2007	5	752,205,229.748	426,122,239.533	51,739,258.650	25,763,241.075	343,016,512.173	0.000	0.000
2007	6	872,051,357.376	426,122,239.533	3,198,088.974	164,397,811.319	352,265,398.657	0.000	0.000
2007	7	1,012,589,875.978	426,122,239.533	0.000	279,053,956.491	341,281,526.579	0.000	0.000
2007	8	1,015,540,145.802	426,122,239.533	0.000	296,167,140.800	322,814,444.499	0.000	0.000
2007	9	1,003,847,256.610	426,122,239.533	667,620.932	254,632,044.904	357,129,877.185	0.000	0.000
2007	10	815,740,228.359	426,122,239.533	6,853,924.734	135,342,836.438	332,987,476.671	0.000	0.000
2007	11	815,253,782.132	426,122,239.533	74,157,101.487	27,526,357.671	353,889,627.678	0.000	0.000
2007	12	1,082,630,694.216	426,122,239.533	234,024,712.773	0.000	402,133,721.954	0.000	0.000
2008	1	1,248,190,190.114	426,122,239.533	294,014,714.639	0.000	418,720,551.265	53,746,155.408	0.000
2008	2	1,140,670,513.907	426,122,239.533	361,631,257.990	0.000	370,977,214.670	0.000	-70,615,618.208
2008	3	1,055,734,431.812	426,122,239.533	330,732,600.501	0.000	354,779,779.325	0.000	0.000
2008	4	894,891,427.958	426,122,239.533	184,293,652.096	259,900.405	354,377,069.733	0.000	0.000
2008	5	738,957,164.490	426,122,239.533	55,414,952.038	6,642,639.491	345,213,355.111	0.000	0.000
2008	6	824,306,065.155	426,122,239.533	16,182,057.937	106,818,941.319	349,115,007.472	0.000	0.000
2008	7	956,345,136.675	426,122,239.533	6,189.304	220,793,383.218	343,291,171.245	0.000	0.000
2008	8	1,009,875,724.214	426,122,239.533	0.000	276,502,636.063	336,814,527.647	0.000	0.000
2008	9	907,473,328.296	426,122,239.533	0.000	176,536,360.899	339,519,253.808	0.000	0.000
2008	10	748,270,587.738	426,122,239.533	12,312,269.451	54,195,197.445	341,207,130.326	0.000	0.000
2008	11	811,862,572.293	426,122,239.533	94,405,607.441	5,918,008.592	351,858,260.964	0.000	0.000
2008	12	1,107,488,965.557	426,122,239.533	275,018,102.035	0.000	385,998,604.032	0.000	0.000
2009	1	1,309,312,778.412	426,122,239.533	363,067,654.154	0.000	410,790,200.047	53,746,155.408	0.000
2009	2	1,194,104,294.033	426,122,239.533	414,492,623.469	0.000	371,549,629.318	0.000	-70,615,618.208
2009	3	986,354,544.877	426,122,239.533	265,650,796.260	0.000	350,481,696.631	0.000	0.000
2009	4	856,163,452.757	426,122,239.533	145,154,023.349	508,400.735	354,540,222.950	0.000	0.000
2009	5	750,717,822.603	426,122,239.533	56,120,576.156	15,923,326.539	346,987,702.057	0.000	0.000
2009	6	771,146,064.847	426,122,239.533	8,504,158.111	65,653,058.221	344,798,790.089	0.000	0.000
2009	7	919,289,840.445	426,122,239.533	6,086.166	194,546,205.668	332,483,155.703	0.000	0.000
2009	8	906,198,245.632	426,122,239.533	0.000	189,891,796.071	319,747,889.058	0.000	0.000
2009	9	867,006,935.503	426,122,239.533	0.000	131,852,091.913	343,737,130.001	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2009	10	746,072,800.931	426,122,239.533	35,267,628.667	29,836,764.724	340,412,417.024	0.000	0.000
2009	11	790,938,181.445	426,122,239.533	83,400,318.836	0.000	347,857,167.312	0.000	0.000
2009	12	1,031,345,207.892	426,122,239.533	193,875,348.555	0.000	390,997,599.848	0.000	0.000
2010	1	1,277,713,582.724	426,122,239.533	343,191,750.803	0.000	399,066,907.710	53,746,155.408	0.000
2010	2	1,126,617,497.174	426,122,239.533	349,331,777.910	0.000	369,223,678.018	0.000	-70,615,618.208
2010	3	979,168,940.765	426,122,239.533	265,581,857.171	0.000	343,365,031.607	0.000	0.000
2010	4	820,531,801.871	426,122,239.533	100,129,425.364	14,144,488.887	350,297,081.896	0.000	0.000
2010	5	720,619,301.136	426,122,239.533	37,240,720.412	14,949,209.095	336,743,153.778	0.000	0.000
2010	6	853,699,463.779	426,122,239.533	7,985,931.218	148,850,279.820	344,673,194.315	0.000	0.000
2010	7	1,027,011,271.774	426,122,239.533	0.000	299,518,399.054	335,238,479.812	0.000	0.000
2010	8	1,113,171,040.576	426,122,239.533	0.000	390,766,073.134	325,846,406.938	0.000	0.000
2010	9	987,045,609.796	426,122,239.533	0.000	260,270,917.536	335,356,978.671	0.000	0.000
2010	10	748,726,510.524	426,122,239.533	14,390,933.854	60,576,816.547	333,202,769.607	0.000	0.000
2010	11	777,415,678.561	426,122,239.533	76,277,473.062	5,878,155.563	335,579,354.639	0.000	0.000
2010	12	1,064,631,755.348	426,122,239.533	232,428,982.540	0.000	385,730,513.319	0.000	0.000
2011	1	1,257,289,232.332	426,122,239.533	342,457,515.695	0.000	399,726,812.383	53,746,155.408	0.000
2011	2	1,119,579,359.467	426,122,239.533	378,729,189.558	0.000	353,138,148.620	0.000	-70,615,618.208
2011	3	948,198,018.809	426,122,239.533	263,669,402.790	0.000	334,656,583.989	0.000	0.000
2011	4	841,722,386.702	426,122,239.533	166,751,685.297	3,974,427.210	335,385,488.428	0.000	0.000
2011	5	734,985,877.570	426,122,239.533	59,484,469.656	19,947,769.339	344,217,440.682	0.000	0.000
2011	6	833,302,845.078	426,122,239.533	7,848,713.337	147,821,011.010	345,793,082.260	0.000	0.000
2011	7	999,746,232.847	426,122,239.533	0.000	280,174,659.712	347,667,200.184	0.000	0.000
2011	8	1,112,908,851.385	426,122,239.533	0.000	413,225,290.691	323,475,020.147	0.000	0.000
2011	9	919,579,672.371	426,122,239.533	1,358,931.145	210,832,175.177	336,320,872.417	0.000	0.000
2011	10	706,506,251.902	426,122,239.533	15,778,406.331	33,987,095.925	336,534,779.086	0.000	0.000
2011	11	757,462,511.422	426,122,239.533	70,312,261.659	5,629,646.721	342,189,927.704	0.000	0.000
2011	12	963,387,256.543	426,122,239.533	162,509,516.705	0.000	374,755,500.305	0.000	0.000
2012	1	1,147,372,229.345	426,122,239.533	241,705,183.520	0.000	390,562,141.571	53,746,155.408	0.000
2012	2	1,013,329,538.471	426,122,239.533	272,468,762.753	0.000	353,148,754.428	0.000	-70,615,618.208
2012	3	903,658,727.714	426,122,239.533	192,816,982.924	12,670,944.096	348,298,768.664	0.000	0.000
2012	4	774,862,873.225	426,122,239.533	55,975,961.110	37,979,487.747	345,296,638.601	0.000	0.000
2012	5	724,407,294.798	426,122,239.533	46,670,465.172	26,049,917.112	340,350,714.621	0.000	0.000
2012	6	846,120,198.959	426,122,239.533	3,097,229.076	165,536,967.877	345,645,963.536	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2012	7	1,135,712,615.191	426,122,239.533	276,811.123	419,548,369.706	343,983,061.411	0.000	0.000
2012	8	1,067,326,852.606	426,122,239.533	0.000	369,769,333.187	321,348,978.871	0.000	0.000
2012	9	901,158,876.297	426,122,239.533	534,441.767	190,649,033.019	338,907,707.880	0.000	0.000
2012	10	713,231,534.206	426,122,239.533	25,979,058.546	31,589,186.488	335,457,318.612	0.000	0.000
2012	11	797,526,986.095	426,122,239.533	103,315,976.017	7,359,334.013	347,521,000.726	0.000	0.000
2012	12	964,051,228.794	426,122,239.533	160,033,655.235	0.000	377,895,334.026	0.000	0.000
2013	1	1,165,890,745.896	426,122,239.533	259,393,268.245	0.000	391,392,573.397	53,746,155.408	0.000
2013	2	1,039,768,168.250	426,122,239.533	306,352,813.720	0.000	345,703,333.241	0.000	-70,615,618.208
2013	3	968,629,067.390	426,122,239.533	276,752,192.274	0.000	342,004,843.087	0.000	0.000
2013	4	884,193,871.806	426,122,239.533	198,833,396.824	0.000	349,749,689.214	0.000	0.000
2013	5	725,076,076.146	426,122,239.533	57,197,635.774	27,370,274.016	329,171,968.463	0.000	0.000
2013	6	799,824,875.020	426,122,239.533	10,960,368.029	113,421,931.001	343,602,537.520	0.000	0.000
2013	7	958,470,248.534	426,122,239.533	157,770.229	250,443,079.807	335,965,025.546	0.000	0.000
2013	8	901,256,484.477	426,122,239.533	0.000	204,502,470.509	320,545,473.421	0.000	0.000
2013	9	936,510,146.047	426,122,239.533	17,593.030	230,740,112.748	334,684,746.636	0.000	0.000
2013	10	743,905,019.304	426,122,239.533	7,656,237.423	85,791,805.556	330,251,005.766	0.000	0.000
2013	11	784,782,212.808	426,122,239.533	92,945,160.887	7,749,792.040	344,756,584.540	0.000	0.000
2013	12	1,038,156,605.392	426,122,239.533	239,839,803.553	0.000	372,194,562.306	0.000	0.000
2014	1	1,285,660,202.039	426,122,239.533	369,463,555.051	0.000	401,091,742.734	53,746,155.408	0.000
2014	2	1,166,504,983.044	426,122,239.533	433,271,101.612	0.000	345,521,860.143	0.000	-70,615,618.208
2014	3	1,068,291,707.948	426,122,239.533	373,732,488.293	0.000	344,687,187.625	0.000	0.000
2014	4	874,204,059.608	426,122,239.533	201,396,580.529	731,715.436	336,464,977.875	0.000	0.000
2014	5	732,499,742.659	426,122,239.533	54,610,721.190	21,276,157.275	345,276,666.299	0.000	0.000
2014	6	817,631,605.288	426,122,239.533	12,475,248.864	137,266,735.514	336,049,582.440	0.000	0.000
2014	7	946,021,379.623	426,122,239.533	0.000	235,348,809.612	338,768,197.059	0.000	0.000
2014	8	870,577,378.552	426,122,239.533	0.000	176,400,052.890	317,968,785.115	0.000	0.000
2014	9	948,752,547.778	426,122,239.533	1,196,013.086	241,153,553.096	335,335,287.963	0.000	0.000
2014	10	706,160,578.500	426,122,239.533	17,195,488.683	36,264,489.702	332,494,629.555	0.000	0.000
2014	11	778,366,603.724	426,122,239.533	101,574,862.478	954,006.440	336,507,059.467	0.000	0.000
2014	12	1,057,210,511.172	426,122,239.533	251,260,168.325	0.000	379,828,103.314	0.000	0.000
2015	1	1,226,042,763.852	426,122,239.533	315,038,696.178	0.000	395,899,163.420	53,746,155.408	0.000
2015	2	1,116,272,574.188	426,122,239.533	378,740,897.079	0.000	349,819,655.819	0.000	-70,615,618.208
2015	3	1,084,644,602.912	426,122,239.533	395,231,677.863	0.000	339,540,893.019	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2015	4	845,329,863.623	426,122,239.533	161,956,995.429	300,748.860	347,461,333.566	0.000	0.000
2015	5	699,125,817.733	426,122,239.533	49,550,742.086	28,059,930.969	335,143,841.010	0.000	0.000
2015	6	805,065,038.973	426,122,239.533	8,171,168.814	124,826,083.093	340,227,748.597	0.000	0.000
2015	7	880,070,878.531	426,122,239.533	75,161.334	173,734,502.547	334,356,841.699	0.000	0.000
2015	8	982,058,105.135	426,122,239.533	0.000	280,366,244.189	325,483,320.399	0.000	0.000
2015	9	919,308,567.305	426,122,239.533	82,006.939	212,117,223.819	336,041,642.914	0.000	0.000
2015	10	726,170,642.546	426,122,239.533	12,499,163.367	62,315,412.142	331,150,096.478	0.000	0.000
2015	11	688,148,227.476	426,122,239.533	62,178,680.239	1,469,337.251	332,897,678.427	0.000	0.000
2015	12	973,328,452.094	426,122,239.533	161,854,678.883	0.000	385,351,533.679	0.000	0.000
2016	1	1,091,251,076.759	426,122,239.533	256,876,803.442	0.000	392,607,280.809	53,746,155.408	0.000
2016	2	1,081,117,893.987	426,122,239.533	346,996,175.499	0.000	346,409,697.199	0.000	-70,615,618.208
2016	3	935,956,844.609	426,122,239.533	250,289,901.009	0.000	335,794,911.571	0.000	0.000
2016	4	825,318,523.426	426,122,239.533	140,949,743.936	131,054.629	348,626,939.094	0.000	0.000
2016	5	687,968,896.713	426,122,239.533	62,415,273.073	5,272,199.330	333,910,120.643	0.000	0.000
2016	6	811,567,883.979	426,122,239.533	12,454,237.975	127,010,551.323	340,263,056.212	0.000	0.000
2016	7	987,892,250.978	426,122,239.533	0.000	224,802,650.224	330,506,270.538	0.000	0.000
2016	8	1,088,914,626.059	426,122,239.533	0.000	332,072,905.448	318,995,715.136	0.000	0.000
2016	9	955,066,954.832	426,122,239.533	0.000	255,491,290.337	328,507,970.863	0.000	0.000
2016	10	745,128,968.955	426,122,239.533	5,209,820.879	88,996,887.425	330,716,290.092	0.000	0.000
2016	11	691,551,143.371	426,122,239.533	57,255,116.762	8,538,106.738	334,155,388.312	0.000	0.000
2016	12	1,013,854,180.916	426,122,239.533	215,382,120.745	110,782.049	372,239,038.589	0.000	0.000
2017	1	1,169,074,534.539	426,122,239.533	344,040,601.914	0.000	383,266,940.117	53,746,155.408	0.000
2017	2	1,003,975,719.370	426,122,239.533	274,375,629.326	0.000	341,888,068.754	0.000	-70,615,618.208
2017	3	884,898,583.069	426,122,239.533	206,208,060.479	0.000	328,818,490.560	0.000	0.000
2017	4	826,554,452.076	426,122,239.533	157,693,596.726	2,286,609.199	330,963,460.384	0.000	0.000
2017	5	675,205,161.336	426,122,239.533	50,190,769.783	19,556,053.807	319,087,034.078	0.000	0.000
2017	6	772,556,827.946	426,122,239.533	11,258,775.828	92,222,508.424	337,235,505.223	0.000	0.000
2017	7	965,107,529.009	426,122,239.533	0.000	207,807,043.283	324,717,155.509	0.000	0.000
2017	8	960,182,923.311	426,122,239.533	0.000	204,632,915.420	317,704,002.417	0.000	0.000
2017	9	803,354,101.389	426,122,239.533	0.000	103,288,322.534	328,998,085.222	0.000	0.000
2017	10	763,438,388.413	426,122,239.533	2,470,482.689	118,455,233.555	322,306,701.610	0.000	0.000
2017	11	732,399,874.425	426,122,239.533	105,320,207.246	6,765,463.559	328,711,672.061	0.000	0.000
2017	12	1,013,694,342.148	426,122,239.533	220,987,977.081	0.000	366,584,125.535	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2018	1	1,235,809,378.975	426,122,239.533	412,240,038.609	0.000	381,802,347.858	53,746,155.408	0.000
2018	2	1,080,977,903.505	426,122,239.533	358,720,281.261	0.000	334,545,600.954	0.000	-70,615,618.208
2018	3	945,045,667.144	426,122,239.533	268,826,258.633	0.000	326,347,376.482	0.000	0.000
2018	4	902,248,122.610	426,122,239.533	228,560,174.216	0.000	338,077,162.627	0.000	0.000
2018	5	727,080,264.501	426,122,239.533	93,819,895.827	18,954,356.002	327,934,709.004	0.000	0.000
2018	6	803,228,803.514	426,122,239.533	2,011,177.216	139,074,142.225	330,303,445.602	0.000	0.000
2018	7	1,013,373,670.705	426,122,239.533	0.000	256,012,401.068	324,777,939.420	0.000	0.000
2018	8	1,001,343,092.250	426,122,239.533	0.000	251,651,485.493	311,845,601.283	0.000	0.000
2018	9	932,817,302.448	426,122,239.533	0.000	239,019,663.225	322,729,945.591	0.000	0.000
2018	10	729,865,610.605	426,122,239.533	20,113,727.470	95,551,203.414	317,333,543.064	0.000	0.000
2018	11	767,969,483.495	426,122,239.533	141,956,203.804	10,308,736.428	324,102,011.704	0.000	0.000
2018	12	1,061,615,590.820	426,122,239.533	268,211,843.538	0.000	367,281,507.749	0.000	0.000
2019	1	1,090,513,252.741	426,122,239.533	272,995,293.379	0.000	375,750,966.852	53,746,155.408	0.000
2019	2	1,065,414,011.533	426,122,239.533	343,589,188.143	0.000	334,112,802.101	0.000	-70,615,618.208
2019	3	956,512,667.416	426,122,239.533	280,886,744.198	656,798.583	325,097,092.606	0.000	0.000
2019	4	829,819,199.520	426,122,239.533	163,098,402.536	4,142,489.705	326,967,521.512	0.000	0.000
2019	5	685,175,524.104	426,122,239.533	57,550,011.881	20,912,531.334	320,341,677.222	0.000	0.000
2019	6	770,274,400.617	426,122,239.533	10,470,752.450	100,042,654.414	327,920,955.283	0.000	0.000
2019	7	994,639,573.311	426,122,239.533	320,883.691	240,198,181.333	321,537,178.070	0.000	0.000
2019	8	1,010,357,252.420	426,122,239.533	0.000	263,745,747.823	308,765,499.123	0.000	0.000
2019	9	884,254,776.009	426,122,239.533	401,810.057	192,551,183.352	320,234,088.968	0.000	0.000
2019	10	688,317,026.287	426,122,239.533	18,946,299.823	57,263,978.641	315,239,611.166	0.000	0.000
2019	11	707,460,864.502	426,122,239.533	92,406,303.240	5,349,059.404	318,102,970.298	0.000	0.000
2019	12	999,662,083.539	426,122,239.533	215,809,580.453	17,872.386	357,712,391.167	0.000	0.000
2020	1	1,127,119,213.300	426,122,239.533	315,313,293.788	0.000	370,038,927.003	53,746,155.408	0.000
2020	2	1,052,123,562.655	426,122,239.533	335,667,304.436	0.000	328,744,236.930	0.000	-70,615,618.208
2020	3	944,797,585.290	426,122,239.533	274,381,126.734	645,715.924	319,898,710.602	0.000	0.000
2020	4	820,744,008.046	426,122,239.533	159,288,627.924	4,071,951.489	321,772,642.866	0.000	0.000
2020	5	678,436,854.579	426,122,239.533	56,202,178.769	20,555,429.985	315,307,942.157	0.000	0.000
2020	6	763,219,735.230	426,122,239.533	10,224,631.626	98,327,869.872	322,827,195.262	0.000	0.000
2020	7	985,531,625.849	426,122,239.533	313,291.732	236,054,076.603	316,580,927.297	0.000	0.000
2020	8	1,001,060,684.865	426,122,239.533	0.000	259,206,692.355	304,007,987.036	0.000	0.000
2020	9	875,975,484.836	426,122,239.533	392,365.578	189,256,405.758	315,259,019.867	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2020	10	681,955,362.061	426,122,239.533	18,505,064.841	56,294,740.433	310,288,420.130	0.000	0.000
2020	11	700,196,120.868	426,122,239.533	90,275,466.398	5,259,512.065	313,058,610.845	0.000	0.000
2020	12	990,265,782.057	426,122,239.533	211,509,173.878	17,618.221	352,616,750.425	0.000	0.000
2021	1	1,117,099,816.763	426,122,239.533	310,051,798.031	0.000	365,281,026.224	53,746,155.408	0.000
2021	2	1,042,469,657.052	426,122,239.533	330,156,130.413	0.000	324,601,505.349	0.000	-70,615,618.208
2021	3	936,401,408.833	426,122,239.533	269,944,636.390	638,696.259	315,946,044.155	0.000	0.000
2021	4	814,306,673.012	426,122,239.533	156,762,556.823	4,028,705.705	317,904,624.717	0.000	0.000
2021	5	673,666,688.086	426,122,239.533	55,329,099.101	20,342,629.984	311,623,655.334	0.000	0.000
2021	6	758,418,341.350	426,122,239.533	10,069,490.453	97,339,884.251	319,168,928.176	0.000	0.000
2021	7	979,695,350.434	426,122,239.533	308,616.934	233,736,374.169	313,067,029.114	0.000	0.000
2021	8	995,253,989.971	426,122,239.533	0.000	256,737,496.214	300,670,488.283	0.000	0.000
2021	9	870,732,227.362	426,122,239.533	386,717.211	187,486,762.361	311,791,054.157	0.000	0.000
2021	10	677,702,903.145	426,122,239.533	18,240,970.563	55,775,186.732	306,819,609.193	0.000	0.000
2021	11	695,309,011.063	426,122,239.533	88,995,370.178	5,211,491.680	309,499,617.646	0.000	0.000
2021	12	983,992,748.472	426,122,239.533	208,916,010.722	17,485.006	348,937,013.211	0.000	0.000
2022	1	1,110,540,799.328	426,122,239.533	306,826,880.164	0.000	361,946,926.655	53,746,155.408	0.000
2022	2	1,036,219,687.774	426,122,239.533	326,803,202.912	0.000	321,704,463.573	0.000	-70,615,618.208
2022	3	930,952,757.751	426,122,239.533	267,258,656.111	635,336.772	313,186,732.839	0.000	0.000
2022	4	810,082,801.676	426,122,239.533	155,245,602.157	4,008,377.036	315,218,036.716	0.000	0.000
2022	5	670,478,605.963	426,122,239.533	54,803,121.726	20,242,918.531	309,061,262.038	0.000	0.000
2022	6	755,293,182.722	426,122,239.533	9,975,023.148	96,871,607.283	316,606,513.822	0.000	0.000
2022	7	976,144,638.558	426,122,239.533	305,784.140	232,644,379.648	310,611,144.554	0.000	0.000
2022	8	991,656,153.638	426,122,239.533	0.000	255,524,043.287	298,286,104.876	0.000	0.000
2022	9	867,340,766.552	426,122,239.533	383,160.095	186,597,430.956	309,292,481.869	0.000	0.000
2022	10	674,738,068.155	426,122,239.533	18,072,893.656	55,507,691.910	304,290,345.933	0.000	0.000
2022	11	691,842,721.939	426,122,239.533	88,173,236.538	5,186,195.856	306,880,757.986	0.000	0.000
2022	12	979,025,034.634	426,122,239.533	206,971,468.084	17,398.485	345,913,928.532	0.000	0.000
2023	1	1,104,645,959.314	426,122,239.533	303,873,411.402	0.000	359,005,555.403	53,746,155.408	0.000
2023	2	1,030,435,219.841	426,122,239.533	323,624,042.090	0.000	319,099,156.461	0.000	-70,615,618.208
2023	3	925,782,906.656	426,122,239.533	264,623,088.045	632,440.236	310,655,346.345	0.000	0.000
2023	4	805,977,242.600	426,122,239.533	153,689,101.054	3,989,438.185	312,687,917.593	0.000	0.000
2023	5	667,379,391.691	426,122,239.533	54,249,568.092	20,145,211.066	306,613,308.866	0.000	0.000
2023	6	752,239,923.391	426,122,239.533	9,873,477.015	96,394,725.445	314,131,682.461	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2023	7	972,573,901.967	426,122,239.533	302,658.816	231,483,727.604	308,204,185.330	0.000	0.000
2023	8	988,012,962.380	426,122,239.533	0.000	254,223,302.634	295,943,654.272	0.000	0.000
2023	9	863,910,515.302	426,122,239.533	379,183.620	185,635,369.549	306,828,268.500	0.000	0.000
2023	10	671,784,768.518	426,122,239.533	17,886,095.487	55,222,428.489	301,809,107.886	0.000	0.000
2023	11	688,351,309.615	426,122,239.533	87,265,418.929	5,159,626.449	304,323,732.678	0.000	0.000
2023	12	973,800,871.544	426,122,239.533	204,762,831.913	17,303.943	342,898,496.155	0.000	0.000
2024	1	1,098,373,534.002	426,122,239.533	300,561,893.303	0.000	356,044,648.191	53,746,155.408	0.000
2024	2	1,024,276,171.049	426,122,239.533	320,077,573.516	0.000	316,486,576.243	0.000	-70,615,618.208
2024	3	920,365,939.432	426,122,239.533	261,720,486.606	629,408.366	308,144,012.431	0.000	0.000
2024	4	801,779,316.512	426,122,239.533	151,994,825.343	3,970,189.157	310,203,516.244	0.000	0.000
2024	5	664,297,430.522	426,122,239.533	53,651,057.469	20,047,963.314	304,227,106.072	0.000	0.000
2024	6	749,281,155.557	426,122,239.533	9,764,813.219	95,932,142.720	311,744,161.148	0.000	0.000
2024	7	969,165,247.693	426,122,239.533	299,335.111	230,379,027.929	305,903,554.436	0.000	0.000
2024	8	984,609,410.741	426,122,239.533	0.000	253,026,099.751	293,737,305.515	0.000	0.000
2024	9	860,741,359.671	426,122,239.533	375,074.926	184,773,070.186	304,525,520.927	0.000	0.000
2024	10	669,011,238.186	426,122,239.533	17,692,860.418	54,967,750.579	299,483,490.532	0.000	0.000
2024	11	684,992,306.183	426,122,239.533	86,327,927.467	5,136,107.917	301,925,739.240	0.000	0.000
2024	12	968,821,381.930	426,122,239.533	202,553,680.015	17,224.593	340,128,237.790	0.000	0.000
2025	1	1,092,443,394.685	426,122,239.533	297,347,255.564	0.000	353,329,146.612	53,746,155.408	0.000
2025	2	1,018,533,598.332	426,122,239.533	316,692,160.750	0.000	314,129,416.292	0.000	-70,615,618.208
2025	3	915,356,492.562	426,122,239.533	258,964,598.894	627,164.404	305,892,697.235	0.000	0.000
2025	4	797,998,777.632	426,122,239.533	150,415,477.452	3,956,436.125	308,016,078.288	0.000	0.000
2025	5	661,588,006.036	426,122,239.533	53,095,957.059	19,979,164.994	302,141,580.314	0.000	0.000
2025	6	746,790,622.692	426,122,239.533	9,664,645.913	95,609,235.364	309,676,702.945	0.000	0.000
2025	7	966,433,693.501	426,122,239.533	296,299.790	229,623,812.262	303,930,251.232	0.000	0.000
2025	8	981,882,788.886	426,122,239.533	0.000	252,201,534.601	291,835,248.811	0.000	0.000
2025	9	858,141,772.088	426,122,239.533	371,289.455	184,174,816.064	302,527,972.935	0.000	0.000
2025	10	666,625,324.665	426,122,239.533	17,514,512.430	54,790,189.490	297,453,486.088	0.000	0.000
2025	11	681,995,808.283	426,122,239.533	85,458,605.838	5,119,553.655	299,815,117.231	0.000	0.000
2025	12	964,378,024.854	426,122,239.533	200,532,281.933	17,170.098	337,706,333.290	0.000	0.000
2026	1	1,087,231,994.693	426,122,239.533	294,458,032.800	0.000	351,006,969.384	53,746,155.408	0.000
2026	2	1,013,436,229.593	426,122,239.533	313,622,555.879	0.000	312,101,652.424	0.000	-70,615,618.208
2026	3	910,927,707.498	426,122,239.533	256,468,096.866	625,728.315	303,961,850.287	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2026	4	794,662,272.168	426,122,239.533	148,972,267.306	3,947,500.454	306,131,718.641	0.000	0.000
2026	5	659,246,178.711	426,122,239.533	52,588,443.209	19,934,542.170	300,351,889.664	0.000	0.000
2026	6	744,697,479.272	426,122,239.533	9,571,926.401	95,393,796.181	307,891,718.219	0.000	0.000
2026	7	964,195,182.483	426,122,239.533	293,453.773	229,104,914.059	302,213,484.434	0.000	0.000
2026	8	979,669,757.229	426,122,239.533	0.000	251,640,295.781	290,183,455.973	0.000	0.000
2026	9	856,000,855.896	426,122,239.533	367,753.589	183,771,602.879	300,793,805.796	0.000	0.000
2026	10	664,584,322.385	426,122,239.533	17,348,990.233	54,673,456.263	295,694,739.232	0.000	0.000
2026	11	679,361,085.977	426,122,239.533	84,657,801.152	5,108,961.319	297,991,791.946	0.000	0.000
2026	12	960,517,545.938	426,122,239.533	198,719,067.047	17,139.044	335,659,100.315	0.000	0.000
2027	1	1,082,713,480.987	426,122,239.533	291,855,666.515	0.000	349,090,821.963	53,746,155.408	0.000
2027	2	1,009,001,804.631	426,122,239.533	310,854,055.210	0.000	310,435,728.131	0.000	-70,615,618.208
2027	3	907,101,167.993	426,122,239.533	254,218,312.872	625,082.138	302,385,740.953	0.000	0.000
2027	4	791,814,366.120	426,122,239.533	147,662,370.007	3,943,395.963	304,597,814.382	0.000	0.000
2027	5	657,329,688.919	426,122,239.533	52,129,482.360	19,914,797.502	298,914,105.390	0.000	0.000
2027	6	743,121,163.180	426,122,239.533	9,489,013.829	95,303,981.934	306,488,128.947	0.000	0.000
2027	7	962,631,818.548	426,122,239.533	290,905.589	228,886,389.723	300,871,193.019	0.000	0.000
2027	8	978,138,590.684	426,122,239.533	0.000	251,403,266.875	288,889,318.335	0.000	0.000
2027	9	854,494,815.188	426,122,239.533	364,619.540	183,615,694.167	299,446,807.849	0.000	0.000
2027	10	663,000,689.995	426,122,239.533	17,201,066.857	54,626,821.301	294,305,665.180	0.000	0.000
2027	11	677,177,166.882	426,122,239.533	83,937,769.262	5,104,664.814	296,532,201.246	0.000	0.000
2027	12	957,049,012.879	426,122,239.533	196,989,931.398	17,122.027	333,919,719.921	0.000	0.000
2028	1	1,078,580,921.045	426,122,239.533	289,360,849.180	0.000	347,453,079.356	53,746,155.408	0.000
2028	2	1,004,934,249.137	426,122,239.533	308,202,726.307	0.000	309,019,501.540	0.000	-70,615,618.208
2028	3	903,597,081.984	426,122,239.533	252,054,409.773	624,953.092	301,045,687.089	0.000	0.000
2028	4	789,268,330.133	426,122,239.533	146,408,648.943	3,942,612.070	303,306,283.352	0.000	0.000
2028	5	655,673,736.333	426,122,239.533	51,686,769.079	19,911,028.496	297,704,635.091	0.000	0.000
2028	6	741,845,132.505	426,122,239.533	9,408,561.821	95,286,964.890	305,309,567.323	0.000	0.000
2028	7	961,477,721.048	426,122,239.533	288,447.322	228,848,948.757	299,756,994.752	0.000	0.000
2028	8	977,025,885.019	426,122,239.533	0.000	251,366,547.732	287,813,331.813	0.000	0.000
2028	9	853,324,510.892	426,122,239.533	361,556.225	183,592,282.590	298,302,978.445	0.000	0.000
2028	10	661,663,386.298	426,122,239.533	17,057,131.356	54,620,936.360	293,118,181.926	0.000	0.000
2028	11	675,216,475.412	426,122,239.533	83,237,416.593	5,104,213.709	295,272,313.550	0.000	0.000
2028	12	953,993,236.038	426,122,239.533	195,380,512.824	17,122.896	332,473,360.785	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2029	1	1,075,595,576.969	426,122,239.533	286,879,105.119	0.000	346,949,479.342	53,746,155.408	0.000
2029	2	1,001,861,420.837	426,122,239.533	305,563,975.116	0.000	308,585,424.432	0.000	-70,615,618.208
2029	3	901,037,457.156	426,122,239.533	249,901,056.242	625,377.689	300,638,991.196	0.000	0.000
2029	4	787,644,493.815	426,122,239.533	145,161,328.733	3,945,374.583	302,927,004.731	0.000	0.000
2029	5	654,888,156.289	426,122,239.533	51,247,500.586	19,925,359.395	297,343,992.640	0.000	0.000
2029	6	741,466,646.337	426,122,239.533	9,328,754.582	95,356,989.135	304,940,864.150	0.000	0.000
2029	7	961,309,346.561	426,122,239.533	286,004.675	229,020,194.151	299,419,817.517	0.000	0.000
2029	8	976,902,436.684	426,122,239.533	0.000	251,556,874.521	287,499,556.689	0.000	0.000
2029	9	853,138,860.683	426,122,239.533	358,500.002	183,732,100.536	297,980,566.513	0.000	0.000
2029	10	661,224,064.375	426,122,239.533	16,913,019.807	54,662,651.358	292,781,256.553	0.000	0.000
2029	11	674,156,997.469	426,122,239.533	82,534,065.965	5,108,094.991	294,912,304.953	0.000	0.000
2029	12	951,892,292.056	426,122,239.533	193,724,040.544	17,135.453	332,028,876.527	0.000	0.000
2030	1	1,071,188,049.489	426,122,239.533	284,396,643.208	0.000	345,024,413.772	53,746,155.408	0.000
2030	2	997,585,953.516	426,122,239.533	302,934,669.121	0.000	306,939,263.105	0.000	-70,615,618.208
2030	3	897,365,192.768	426,122,239.533	247,764,880.971	626,024.998	299,102,254.769	0.000	0.000
2030	4	784,957,243.528	426,122,239.533	143,929,087.795	3,949,611.873	301,467,758.092	0.000	0.000
2030	5	653,158,981.161	426,122,239.533	50,815,790.830	19,947,637.154	296,024,249.510	0.000	0.000
2030	6	740,272,184.197	426,122,239.533	9,250,729.211	95,467,407.764	303,714,008.752	0.000	0.000
2030	7	960,436,394.398	426,122,239.533	283,628.677	229,293,906.621	298,275,528.883	0.000	0.000
2030	8	976,095,363.860	426,122,239.533	0.000	251,867,260.692	286,382,097.694	0.000	0.000
2030	9	852,157,424.054	426,122,239.533	355,565.964	183,966,868.799	296,767,295.658	0.000	0.000
2030	10	659,868,938.326	426,122,239.533	16,775,735.083	54,735,009.805	291,491,056.781	0.000	0.000
2030	11	672,103,307.075	426,122,239.533	81,869,893.720	5,115,103.338	293,515,778.457	0.000	0.000
2030	12	948,743,174.487	426,122,239.533	192,197,333.936	17,161.160	330,406,439.858	0.000	0.000
2031	1	1,067,509,680.237	426,122,239.533	282,165,033.566	0.000	343,577,654.162	53,746,155.408	0.000
2031	2	993,982,970.512	426,122,239.533	300,562,172.682	0.000	305,708,776.540	0.000	-70,615,618.208
2031	3	894,286,669.795	426,122,239.533	245,828,315.571	627,709.329	297,958,612.866	0.000	0.000
2031	4	782,767,811.880	426,122,239.533	142,806,305.881	3,960,269.951	300,390,450.281	0.000	0.000
2031	5	651,853,870.216	426,122,239.533	50,420,273.493	20,001,670.129	295,060,622.927	0.000	0.000
2031	6	739,580,645.281	426,122,239.533	9,178,921.036	95,727,288.313	302,834,397.461	0.000	0.000
2031	7	960,245,409.766	426,122,239.533	281,432.615	229,920,922.543	297,459,724.390	0.000	0.000
2031	8	975,981,098.533	426,122,239.533	0.000	252,559,345.281	285,575,747.778	0.000	0.000
2031	9	851,773,573.891	426,122,239.533	352,829.687	184,475,855.051	295,877,195.520	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2031	10	658,922,419.376	426,122,239.533	16,647,058.059	54,887,421.086	290,520,803.574	0.000	0.000
2031	11	670,419,274.981	426,122,239.533	81,244,146.206	5,129,448.147	292,443,149.068	0.000	0.000
2031	12	945,925,413.383	426,122,239.533	190,696,154.916	17,206.971	329,089,811.964	0.000	0.000
2032	1	1,064,063,561.743	426,122,239.533	279,820,237.291	0.000	342,476,331.944	53,746,155.408	0.000
2032	2	990,548,886.446	426,122,239.533	298,063,991.872	0.000	304,772,873.285	0.000	-70,615,618.208
2032	3	891,378,109.934	426,122,239.533	243,786,050.594	629,162.077	297,090,865.233	0.000	0.000
2032	4	780,778,654.826	426,122,239.533	141,620,145.451	3,969,452.230	299,578,271.377	0.000	0.000
2032	5	650,761,625.568	426,122,239.533	50,001,405.970	20,048,069.991	294,340,845.940	0.000	0.000
2032	6	739,079,203.526	426,122,239.533	9,102,686.110	95,949,816.024	302,186,662.922	0.000	0.000
2032	7	960,181,645.869	426,122,239.533	279,095.772	230,456,465.507	296,862,754.373	0.000	0.000
2032	8	975,975,250.538	426,122,239.533	0.000	253,148,869.400	284,980,375.664	0.000	0.000
2032	9	851,535,040.103	426,122,239.533	349,902.234	184,907,578.938	295,209,865.298	0.000	0.000
2032	10	658,172,652.563	426,122,239.533	16,509,051.901	55,016,367.996	289,780,096.010	0.000	0.000
2032	11	668,926,147.683	426,122,239.533	80,571,109.172	5,141,539.487	291,610,967.465	0.000	0.000
2032	12	943,364,519.352	426,122,239.533	189,126,985.407	17,248.362	328,098,046.050	0.000	0.000
2033	1	1,061,076,200.139	426,122,239.533	277,577,733.616	0.000	341,731,474.014	53,746,155.408	0.000
2033	2	987,538,883.276	426,122,239.533	295,675,955.659	0.000	304,150,906.327	0.000	-70,615,618.208
2033	3	888,860,989.234	426,122,239.533	241,833,714.905	630,693.536	296,524,548.763	0.000	0.000
2033	4	779,141,867.509	426,122,239.533	140,487,402.684	3,979,156.648	299,064,522.410	0.000	0.000
2033	5	649,974,042.535	426,122,239.533	49,601,783.391	20,097,222.278	293,903,733.198	0.000	0.000
2033	6	738,868,631.807	426,122,239.533	9,029,956.688	96,185,363.699	301,813,272.950	0.000	0.000
2033	7	960,414,753.873	426,122,239.533	276,865.327	231,022,025.940	296,532,532.389	0.000	0.000
2033	8	976,264,388.163	426,122,239.533	0.000	253,770,067.053	284,648,315.635	0.000	0.000
2033	9	851,595,101.371	426,122,239.533	347,102.060	185,359,805.215	294,820,500.464	0.000	0.000
2033	10	657,716,168.694	426,122,239.533	16,376,727.112	55,150,315.576	289,321,989.348	0.000	0.000
2033	11	667,755,790.065	426,122,239.533	79,924,545.501	5,154,017.534	291,074,695.471	0.000	0.000
2033	12	941,111,341.441	426,122,239.533	187,574,648.446	17,287.631	327,397,165.831	0.000	0.000
2034	1	1,058,382,579.444	426,122,239.533	275,308,919.555	0.000	341,306,667.381	53,746,155.408	0.000
2034	2	984,771,773.229	426,122,239.533	293,255,559.780	0.000	303,804,192.159	0.000	-70,615,618.208
2034	3	886,570,920.807	426,122,239.533	239,850,990.208	632,070.095	296,215,828.475	0.000	0.000
2034	4	777,730,577.317	426,122,239.533	139,334,025.325	3,987,801.563	298,797,964.661	0.000	0.000
2034	5	649,400,636.545	426,122,239.533	49,194,351.787	20,140,818.885	293,694,162.206	0.000	0.000
2034	6	738,844,982.911	426,122,239.533	8,955,766.095	96,393,894.301	301,655,284.045	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2034	7	960,795,311.493	426,122,239.533	274,592.123	231,524,299.899	296,413,089.254	0.000	0.000
2034	8	976,695,817.634	426,122,239.533	0.000	254,324,203.864	284,525,608.296	0.000	0.000
2034	9	851,840,284.773	426,122,239.533	344,260.485	185,767,447.908	294,660,882.747	0.000	0.000
2034	10	657,491,138.781	426,122,239.533	16,242,948.831	55,272,620.225	289,108,433.068	0.000	0.000
2034	11	666,842,068.419	426,122,239.533	79,273,060.990	5,165,541.818	290,800,934.052	0.000	0.000
2034	12	939,375,599.784	426,122,239.533	186,121,959.098	17,332.048	327,114,069.105	0.000	0.000
2035	1	1,056,306,345.762	426,122,239.533	273,350,447.675	0.000	341,188,905.578	53,746,155.408	0.000
2035	2	982,621,921.674	426,122,239.533	291,176,582.478	0.000	303,733,317.907	0.000	-70,615,618.208
2035	3	884,847,009.441	426,122,239.533	238,158,684.640	633,840.268	296,182,452.502	0.000	0.000
2035	4	776,778,539.276	426,122,239.533	138,355,172.358	3,999,084.878	298,813,496.272	0.000	0.000
2035	5	649,183,753.744	426,122,239.533	48,850,319.291	20,198,416.547	293,763,714.238	0.000	0.000
2035	6	739,192,966.160	426,122,239.533	8,893,416.678	96,672,438.835	301,787,072.177	0.000	0.000
2035	7	961,635,895.685	426,122,239.533	272,688.121	232,199,502.993	296,580,374.354	0.000	0.000
2035	8	977,599,062.419	426,122,239.533	0.000	255,071,713.850	284,681,343.094	0.000	0.000
2035	9	852,515,104.280	426,122,239.533	341,888.555	186,316,959.580	294,788,562.513	0.000	0.000
2035	10	657,612,316.844	426,122,239.533	16,131,273.015	55,436,868.174	289,177,038.998	0.000	0.000
2035	11	666,325,493.074	426,122,239.533	78,729,414.442	5,180,975.789	290,812,571.285	0.000	0.000
2035	12	938,095,010.875	426,122,239.533	184,863,802.484	17,385.235	327,091,583.623	0.000	0.000
2036	1	1,054,617,957.081	426,122,239.533	271,523,317.851	0.000	341,327,646.721	53,746,155.408	0.000
2036	2	980,834,896.074	426,122,239.533	289,235,612.798	0.000	303,887,261.986	0.000	-70,615,618.208
2036	3	883,443,012.989	426,122,239.533	236,574,820.021	635,893.464	296,360,267.474	0.000	0.000
2036	4	776,093,339.750	426,122,239.533	137,436,224.843	4,012,065.873	299,034,263.267	0.000	0.000
2036	5	649,187,151.416	426,122,239.533	48,526,104.144	20,264,046.085	294,025,697.519	0.000	0.000
2036	6	739,767,611.225	426,122,239.533	8,834,415.378	96,986,639.515	302,106,517.863	0.000	0.000
2036	7	962,732,973.596	426,122,239.533	270,878.294	232,953,138.331	296,925,626.755	0.000	0.000
2036	8	978,749,547.445	426,122,239.533	0.000	255,898,600.131	285,004,941.839	0.000	0.000
2036	9	853,415,531.335	426,122,239.533	339,618.474	186,920,240.164	295,087,979.066	0.000	0.000
2036	10	657,925,028.794	426,122,239.533	16,024,182.043	55,616,271.685	289,417,438.409	0.000	0.000
2036	11	666,003,276.848	426,122,239.533	78,206,247.169	5,197,694.172	290,996,803.947	0.000	0.000
2036	12	936,853,127.693	426,122,239.533	183,552,989.377	17,435.023	327,160,463.760	0.000	0.000
2037	1	1,052,789,482.395	426,122,239.533	269,592,902.875	0.000	341,429,587.012	53,746,155.408	0.000
2037	2	978,880,458.058	426,122,239.533	287,169,892.332	0.000	303,998,544.436	0.000	-70,615,618.208
2037	3	881,877,030.789	426,122,239.533	234,878,203.665	637,461.147	296,489,333.947	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2037	4	775,279,159.059	426,122,239.533	136,447,315.061	4,021,863.751	299,199,194.479	0.000	0.000
2037	5	649,085,329.694	426,122,239.533	48,175,733.454	20,313,042.890	294,225,249.683	0.000	0.000
2037	6	740,182,129.887	426,122,239.533	8,770,389.113	97,218,594.775	302,353,107.529	0.000	0.000
2037	7	963,552,956.577	426,122,239.533	268,908.369	233,504,655.906	297,196,062.085	0.000	0.000
2037	8	979,598,308.423	426,122,239.533	0.000	256,497,103.359	285,255,199.590	0.000	0.000
2037	9	854,069,472.949	426,122,239.533	337,131.068	187,353,341.733	295,311,306.516	0.000	0.000
2037	10	658,100,605.099	426,122,239.533	15,906,399.748	55,743,707.797	289,583,360.897	0.000	0.000
2037	11	665,551,119.985	426,122,239.533	77,629,439.789	5,209,476.397	291,109,672.239	0.000	0.000
2037	12	935,718,682.042	426,122,239.533	182,267,119.051	17,479.671	327,311,843.786	0.000	0.000
2038	1	1,051,224,300.272	426,122,239.533	267,800,261.226	0.000	341,657,046.538	53,746,155.408	0.000
2038	2	977,186,770.440	426,122,239.533	285,253,962.865	0.000	304,220,786.285	0.000	-70,615,618.208
2038	3	880,543,025.315	426,122,239.533	233,306,435.360	639,130.229	296,725,427.696	0.000	0.000
2038	4	774,645,443.620	426,122,239.533	135,532,008.416	4,032,322.559	299,470,326.878	0.000	0.000
2038	5	649,114,611.916	426,122,239.533	47,851,786.259	20,365,504.078	294,526,017.912	0.000	0.000
2038	6	740,719,519.237	426,122,239.533	8,711,286.851	97,468,095.125	302,700,098.790	0.000	0.000
2038	7	964,513,398.515	426,122,239.533	267,091.440	234,099,390.418	297,563,586.441	0.000	0.000
2038	8	980,594,483.657	426,122,239.533	0.000	257,146,261.383	285,602,216.800	0.000	0.000
2038	9	854,865,304.628	426,122,239.533	334,842.276	187,824,037.797	295,638,730.923	0.000	0.000
2038	10	658,406,470.443	426,122,239.533	15,798,165.729	55,882,853.035	289,858,315.022	0.000	0.000
2038	11	665,263,235.199	426,122,239.533	77,099,972.872	5,222,392.280	291,338,338.489	0.000	0.000
2038	12	934,722,252.413	426,122,239.533	181,040,020.147	17,524.192	327,542,468.542	0.000	0.000
2039	1	1,049,801,177.660	426,122,239.533	266,130,752.959	0.000	341,903,432.192	53,746,155.408	0.000
2039	2	975,642,284.300	426,122,239.533	283,471,794.311	0.000	304,458,468.700	0.000	-70,615,618.208
2039	3	879,336,800.138	426,122,239.533	231,847,181.029	640,688.417	296,976,898.662	0.000	0.000
2039	4	774,089,963.777	426,122,239.533	134,683,097.080	4,042,116.375	299,753,964.555	0.000	0.000
2039	5	649,174,586.296	426,122,239.533	47,551,812.182	20,414,854.507	294,836,615.939	0.000	0.000
2039	6	741,256,744.533	426,122,239.533	8,656,665.839	97,704,113.021	303,055,927.203	0.000	0.000
2039	7	965,457,585.710	426,122,239.533	265,417.879	234,667,161.200	297,941,676.414	0.000	0.000
2039	8	981,579,133.896	426,122,239.533	0.000	257,770,949.526	285,962,178.896	0.000	0.000
2039	9	855,667,203.370	426,122,239.533	332,748.116	188,281,630.505	295,985,131.116	0.000	0.000
2039	10	658,744,424.830	426,122,239.533	15,699,508.561	56,019,505.787	290,158,273.825	0.000	0.000
2039	11	665,059,073.257	426,122,239.533	76,619,640.841	5,235,238.760	291,601,662.097	0.000	0.000
2039	12	933,927,331.150	426,122,239.533	179,949,576.625	17,570.254	327,837,944.738	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2040	1	1,047,586,985.329	426,122,239.533	264,648,550.210	0.000	341,171,442.610	53,746,155.408	0.000
2040	2	973,472,465.044	426,122,239.533	281,899,469.544	0.000	303,860,974.210	0.000	-70,615,618.208
2040	3	877,525,525.376	426,122,239.533	230,565,925.556	642,347.021	296,445,220.769	0.000	0.000
2040	4	772,891,844.878	426,122,239.533	133,941,591.590	4,052,658.372	299,286,809.149	0.000	0.000
2040	5	648,600,416.394	426,122,239.533	47,290,710.374	20,468,362.619	294,470,039.733	0.000	0.000
2040	6	741,201,889.219	426,122,239.533	8,609,248.788	97,961,328.095	302,791,273.865	0.000	0.000
2040	7	965,863,601.860	426,122,239.533	263,967.124	235,287,207.994	297,729,096.526	0.000	0.000
2040	8	982,032,155.189	426,122,239.533	0.000	258,453,832.509	285,732,317.205	0.000	0.000
2040	9	855,858,168.548	426,122,239.533	330,935.227	188,781,559.710	295,677,979.978	0.000	0.000
2040	10	658,409,213.699	426,122,239.533	15,614,053.167	56,168,393.472	289,759,630.403	0.000	0.000
2040	11	664,157,000.466	426,122,239.533	76,202,798.645	5,249,155.130	291,102,515.132	0.000	0.000
2040	12	932,035,722.460	426,122,239.533	178,836,439.560	17,606.373	327,059,436.994	0.000	0.000
2041	1	1,045,376,766.505	426,122,239.533	262,979,353.399	0.000	340,630,420.597	53,746,155.408	0.000
2041	2	971,245,098.397	426,122,239.533	280,113,398.232	0.000	303,419,678.876	0.000	-70,615,618.208
2041	3	875,669,936.562	426,122,239.533	229,099,244.925	643,492.570	296,055,167.037	0.000	0.000
2041	4	771,705,965.806	426,122,239.533	133,086,448.134	4,059,800.165	298,948,931.739	0.000	0.000
2041	5	648,077,904.830	426,122,239.533	46,987,813.461	20,504,058.366	294,214,729.334	0.000	0.000
2041	6	741,146,453.215	426,122,239.533	8,553,919.760	98,130,283.844	302,622,211.140	0.000	0.000
2041	7	966,137,716.429	426,122,239.533	262,264.644	235,688,227.434	297,603,894.134	0.000	0.000
2041	8	982,322,452.738	426,122,239.533	0.000	258,889,803.782	285,586,643.481	0.000	0.000
2041	9	855,952,206.870	426,122,239.533	328,787.796	189,096,870.366	295,458,855.075	0.000	0.000
2041	10	658,093,454.898	426,122,239.533	15,512,443.279	56,261,305.814	289,452,569.148	0.000	0.000
2041	11	663,267,415.476	426,122,239.533	75,705,455.685	5,257,751.924	290,701,676.308	0.000	0.000
2041	12	930,455,749.327	426,122,239.533	177,720,319.700	17,639.248	326,595,550.845	0.000	0.000
2042	1	1,043,521,087.121	426,122,239.533	261,448,111.182	0.000	340,305,983.429	53,746,155.408	0.000
2042	2	969,360,033.770	426,122,239.533	278,480,436.945	0.000	303,167,575.535	0.000	-70,615,618.208
2042	3	874,124,242.611	426,122,239.533	227,762,456.899	644,701.535	295,845,052.148	0.000	0.000
2042	4	770,774,572.720	426,122,239.533	132,309,378.319	4,067,414.601	298,786,994.033	0.000	0.000
2042	5	647,748,182.848	426,122,239.533	46,713,339.516	20,542,474.472	294,121,065.194	0.000	0.000
2042	6	741,263,310.065	426,122,239.533	8,503,941.821	98,314,053.185	302,605,276.589	0.000	0.000
2042	7	966,601,599.657	426,122,239.533	260,733.194	236,130,485.198	297,627,051.048	0.000	0.000
2042	8	982,813,316.205	426,122,239.533	0.000	259,376,224.459	285,591,086.272	0.000	0.000
2042	9	856,255,615.727	426,122,239.533	326,869.109	189,452,543.606	295,408,509.380	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2042	10	657,984,926.735	426,122,239.533	15,422,002.050	56,367,464.955	289,328,323.073	0.000	0.000
2042	11	662,637,167.761	426,122,239.533	75,264,500.242	5,267,706.025	290,502,429.934	0.000	0.000
2042	12	929,158,126.022	426,122,239.533	176,695,678.738	17,673,511	326,322,534.240	0.000	0.000
2043	1	1,041,982,232.000	426,122,239.533	260,020,563.854	0.000	340,194,675.638	53,746,155.408	0.000
2043	2	967,772,053.606	426,122,239.533	276,960,560.801	0.000	303,099,471.516	0.000	-70,615,618.208
2043	3	872,849,238.944	426,122,239.533	226,521,003.125	645,975.266	295,810,228.524	0.000	0.000
2043	4	770,072,139.135	426,122,239.533	131,589,380.368	4,075,485.188	298,796,487.812	0.000	0.000
2043	5	647,599,936.428	426,122,239.533	46,459,541.871	20,583,406.781	294,185,684.108	0.000	0.000
2043	6	741,544,123.806	426,122,239.533	8,457,775.971	98,510,376.154	302,735,933.211	0.000	0.000
2043	7	967,235,756.013	426,122,239.533	259,318.444	236,602,751.466	297,790,355.886	0.000	0.000
2043	8	983,476,386.191	426,122,239.533	0.000	259,895,153.418	285,735,227.298	0.000	0.000
2043	9	856,736,487.741	426,122,239.533	325,094.991	189,831,504.030	295,512,195.088	0.000	0.000
2043	10	658,052,238.421	426,122,239.533	15,338,237.136	56,480,054.420	289,366,810.209	0.000	0.000
2043	11	662,214,466.124	426,122,239.533	74,855,511.240	5,278,217.793	290,478,205.531	0.000	0.000
2043	12	928,100,328.583	426,122,239.533	175,726,597.100	17,708.075	326,233,783.875	0.000	0.000
2044	1	1,040,811,822.045	426,122,239.533	258,721,532.669	0.000	340,323,296.867	53,746,155.408	0.000
2044	2	966,527,193.182	426,122,239.533	275,577,828.601	0.000	303,237,343.291	0.000	-70,615,618.208
2044	3	871,878,866.194	426,122,239.533	225,391,089.056	647,305.403	295,968,439.705	0.000	0.000
2044	4	769,620,220.825	426,122,239.533	130,933,176.663	4,083,888.994	298,992,369.401	0.000	0.000
2044	5	647,643,961.345	426,122,239.533	46,228,004.756	20,625,937.141	294,418,175.780	0.000	0.000
2044	6	741,994,642.585	426,122,239.533	8,415,705.559	98,714,861.462	303,024,037.094	0.000	0.000
2044	7	968,043,694.659	426,122,239.533	258,031.646	237,096,534.355	298,105,798.441	0.000	0.000
2044	8	984,322,661.193	426,122,239.533	0.000	260,442,345.215	286,034,310.503	0.000	0.000
2044	9	857,416,253.022	426,122,239.533	323,494.152	190,234,494.286	295,790,570.952	0.000	0.000
2044	10	658,325,299.795	426,122,239.533	15,262,977.795	56,600,906.252	289,594,279.090	0.000	0.000
2044	11	662,044,165.713	426,122,239.533	74,489,623.417	5,289,608.520	290,662,402.217	0.000	0.000
2044	12	927,321,617.124	426,122,239.533	174,827,831.073	17,743.118	326,353,803.401	0.000	0.000
2045	1	1,039,650,724.767	426,122,239.533	257,349,578.586	0.000	340,534,153.672	53,746,155.408	0.000
2045	2	965,275,092.034	426,122,239.533	274,116,254.359	0.000	303,446,816.385	0.000	-70,615,618.208
2045	3	870,909,820.129	426,122,239.533	224,195,481.457	648,453.909	296,193,852.734	0.000	0.000
2045	4	769,193,664.038	426,122,239.533	130,239,299.319	4,091,164.787	299,252,414.163	0.000	0.000
2045	5	647,725,184.720	426,122,239.533	45,983,046.225	20,662,745.740	294,708,089.087	0.000	0.000
2045	6	742,462,405.795	426,122,239.533	8,371,095.987	98,891,141.286	303,360,130.052	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2045	7	968,823,971.510	426,122,239.533	256,662.282	237,519,256.159	298,464,722.852	0.000	0.000
2045	8	985,123,181.493	426,122,239.533	0.000	260,904,240.830	286,372,935.189	0.000	0.000
2045	9	858,070,616.007	426,122,239.533	321,769.926	190,570,665.710	296,110,486.738	0.000	0.000
2045	10	658,612,378.091	426,122,239.533	15,181,366.178	56,700,173.355	289,863,701.901	0.000	0.000
2045	11	661,880,987.730	426,122,239.533	74,090,036.234	5,298,814.117	290,889,605.820	0.000	0.000
2045	12	926,587,665.442	426,122,239.533	173,884,000.752	17,773.518	326,563,651.639	0.000	0.000
2046	1	1,038,585,881.668	426,122,239.533	256,032,377.367	0.000	340,786,511.793	53,746,155.408	0.000
2046	2	964,106,018.038	426,122,239.533	272,707,212.966	0.000	303,686,783.783	0.000	-70,615,618.208
2046	3	870,004,225.699	426,122,239.533	223,038,912.009	649,530.217	296,443,751.443	0.000	0.000
2046	4	768,805,736.772	426,122,239.533	129,565,432.540	4,097,906.052	299,531,612.413	0.000	0.000
2046	5	647,824,003.157	426,122,239.533	45,744,615.208	20,696,628.021	295,011,456.261	0.000	0.000
2046	6	742,924,311.247	426,122,239.533	8,327,583.840	99,052,350.116	303,704,338.821	0.000	0.000
2046	7	969,573,663.226	426,122,239.533	255,325.644	237,904,829.668	298,830,177.697	0.000	0.000
2046	8	985,891,554.977	426,122,239.533	0.000	261,325,847.231	286,719,702.272	0.000	0.000
2046	9	858,704,646.274	426,122,239.533	320,087.350	190,877,157.747	296,439,707.545	0.000	0.000
2046	10	658,908,143.869	426,122,239.533	15,101,891.432	56,791,215.754	290,147,900.026	0.000	0.000
2046	11	661,747,971.404	426,122,239.533	73,701,566.554	5,307,296.377	291,136,576.914	0.000	0.000
2046	12	925,915,297.620	426,122,239.533	172,972,072.585	17,801.975	326,803,183.527	0.000	0.000
2047	1	1,037,620,121.145	426,122,239.533	254,755,864.394	0.000	341,097,264.242	53,746,155.408	0.000
2047	2	963,039,911.323	426,122,239.533	271,347,096.205	0.000	303,980,793.829	0.000	-70,615,618.208
2047	3	869,196,005.610	426,122,239.533	221,926,094.472	650,599.139	296,747,279.969	0.000	0.000
2047	4	768,499,767.078	426,122,239.533	128,918,869.224	4,104,650.380	299,865,461.706	0.000	0.000
2047	5	647,984,646.335	426,122,239.533	45,516,240.999	20,730,666.356	295,366,435.313	0.000	0.000
2047	6	743,440,102.161	426,122,239.533	8,285,978.748	99,214,980.665	304,099,104.278	0.000	0.000
2047	7	970,376,150.060	426,122,239.533	254,048.713	238,294,426.816	299,244,344.315	0.000	0.000
2047	8	986,713,452.069	426,122,239.533	0.000	261,752,169.678	287,115,276.917	0.000	0.000
2047	9	859,397,553.076	426,122,239.533	318,482.002	191,187,402.435	296,823,975.005	0.000	0.000
2047	10	659,264,355.837	426,122,239.533	15,025,969.467	56,882,902.140	290,488,347.573	0.000	0.000
2047	11	661,691,596.735	426,122,239.533	73,330,185.199	5,315,808.444	291,443,071.532	0.000	0.000
2047	12	925,349,885.297	426,122,239.533	172,098,379.976	17,830.350	327,111,435.438	0.000	0.000
2048	1	1,036,713,500.426	426,122,239.533	253,506,125.269	0.000	341,440,382.648	53,746,155.408	0.000
2048	2	962,021,134.907	426,122,239.533	270,010,426.446	0.000	304,298,687.171	0.000	-70,615,618.208
2048	3	868,421,816.592	426,122,239.533	220,828,276.296	651,543.941	297,069,964.326	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2048	4	768,214,559.455	426,122,239.533	128,278,229.324	4,110,531.233	300,215,013.130	0.000	0.000
2048	5	648,151,878.565	426,122,239.533	45,288,882.972	20,759,892.801	295,731,799.124	0.000	0.000
2048	6	743,935,314.502	426,122,239.533	8,244,357.892	99,352,334.633	304,498,583.506	0.000	0.000
2048	7	971,114,754.851	426,122,239.533	252,765.697	238,618,374.133	299,660,284.804	0.000	0.000
2048	8	987,457,318.530	426,122,239.533	0.000	262,100,643.017	287,510,670.039	0.000	0.000
2048	9	860,025,288.663	426,122,239.533	316,853.159	191,435,942.533	297,204,799.338	0.000	0.000
2048	10	659,596,009.550	426,122,239.533	14,948,628.919	56,955,133.111	290,825,110.864	0.000	0.000
2048	11	661,620,780.878	426,122,239.533	72,950,311.480	5,322,396.400	291,745,541.439	0.000	0.000
2048	12	924,750,750.191	426,122,239.533	171,200,280.968	17,851.815	327,410,377.875	0.000	0.000
2049	1	1,035,829,961.267	426,122,239.533	252,266,246.262	0.000	341,796,722.496	53,746,155.408	0.000
2049	2	961,023,221.059	426,122,239.533	268,683,955.232	0.000	304,627,244.537	0.000	-70,615,618.208
2049	3	867,664,971.757	426,122,239.533	219,738,577.329	652,314.092	297,402,048.306	0.000	0.000
2049	4	767,941,144.720	426,122,239.533	127,642,188.363	4,115,306.647	300,572,863.941	0.000	0.000
2049	5	648,321,538.825	426,122,239.533	45,063,110.860	20,783,519.061	296,103,605.236	0.000	0.000
2049	6	744,408,462.062	426,122,239.533	8,203,019.639	99,462,810.189	304,902,593.764	0.000	0.000
2049	7	971,792,321.810	426,122,239.533	251,491.179	238,877,597.617	300,079,902.796	0.000	0.000
2049	8	988,133,833.755	426,122,239.533	0.000	262,377,842.874	287,909,985.407	0.000	0.000
2049	9	860,605,926.246	426,122,239.533	315,234.563	191,632,272.282	297,590,725.769	0.000	0.000
2049	10	659,919,002.035	426,122,239.533	14,871,762.624	57,011,788.940	291,168,313.815	0.000	0.000
2049	11	661,558,713.451	426,122,239.533	72,572,706.763	5,327,524.899	292,055,950.230	0.000	0.000
2049	12	924,166,305.028	426,122,239.533	170,307,248.315	17,868.358	327,718,948.822	0.000	0.000
2050	1	1,035,031,668.592	426,122,239.533	251,067,688.287	0.000	342,196,987.796	53,746,155.408	0.000
2050	2	960,106,761.843	426,122,239.533	267,401,243.435	0.000	304,993,497.119	0.000	-70,615,618.208
2050	3	866,979,216.713	426,122,239.533	218,684,462.762	653,147.536	297,769,574.385	0.000	0.000
2050	4	767,722,754.684	426,122,239.533	127,026,700.970	4,120,477.763	300,964,790.183	0.000	0.000
2050	5	648,531,612.150	426,122,239.533	44,844,554.084	20,809,125.237	296,506,629.161	0.000	0.000
2050	6	744,921,564.596	426,122,239.533	8,162,987.626	99,582,672.917	305,335,865.584	0.000	0.000
2050	7	972,519,625.400	426,122,239.533	250,256.495	239,159,161.631	300,526,877.057	0.000	0.000
2050	8	988,861,287.284	426,122,239.533	0.000	262,679,350.921	288,335,930.889	0.000	0.000
2050	9	861,233,385.296	426,122,239.533	313,665.315	191,846,153.951	298,005,872.398	0.000	0.000
2050	10	660,280,189.903	426,122,239.533	14,797,209.819	57,073,608.521	291,542,234.906	0.000	0.000
2050	11	661,541,291.586	426,122,239.533	72,206,317.267	5,333,130.308	292,399,312.452	0.000	0.000
2050	12	923,650,407.390	426,122,239.533	169,442,201.986	17,886.623	328,068,079.248	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2051	1	1,035,040,590.727	426,122,239.533	250,785,227.295	0.000	342,488,370.923	53,746,155.408	0.000
2051	2	960,076,899.022	426,122,239.533	267,097,655.914	0.000	305,267,221.818	0.000	-70,615,618.208
2051	3	867,011,848.043	426,122,239.533	218,434,008.631	654,642.051	298,051,165.332	0.000	0.000
2051	4	767,895,561.895	426,122,239.533	126,879,784.616	4,129,860.444	301,275,131.067	0.000	0.000
2051	5	648,855,050.129	426,122,239.533	44,792,044.221	20,856,210.447	296,835,491.793	0.000	0.000
2051	6	745,499,522.471	426,122,239.533	8,153,293.021	99,806,310.884	305,699,880.096	0.000	0.000
2051	7	973,435,727.244	426,122,239.533	249,955.188	239,692,235.913	300,910,205.926	0.000	0.000
2051	8	989,807,545.167	426,122,239.533	0.000	263,259,614.412	288,701,925.281	0.000	0.000
2051	9	862,004,673.430	426,122,239.533	313,274.731	192,265,658.436	298,358,046.630	0.000	0.000
2051	10	660,695,509.908	426,122,239.533	14,778,475.120	57,197,195.545	291,852,702.585	0.000	0.000
2051	11	661,737,707.713	426,122,239.533	72,113,368.608	5,344,564.009	292,677,243.537	0.000	0.000
2051	12	923,699,907.882	426,122,239.533	169,219,013.479	17,924.446	328,340,730.423	0.000	0.000
2052	1	1,035,053,267.298	426,122,239.533	250,502,379.569	0.000	342,783,895.220	53,746,155.408	0.000
2052	2	960,048,085.815	426,122,239.533	266,792,417.915	0.000	305,543,646.610	0.000	-70,615,618.208
2052	3	867,043,777.630	426,122,239.533	218,181,177.438	656,120.815	298,334,447.347	0.000	0.000
2052	4	768,066,980.006	426,122,239.533	126,730,883.344	4,139,129.111	301,586,181.783	0.000	0.000
2052	5	649,176,599.725	426,122,239.533	44,738,619.345	20,902,645.486	297,164,031.226	0.000	0.000
2052	6	746,072,409.562	426,122,239.533	8,143,393.668	100,026,487.815	306,062,489.609	0.000	0.000
2052	7	974,340,430.928	426,122,239.533	249,646.481	240,216,192.248	301,291,261.983	0.000	0.000
2052	8	990,740,065.270	426,122,239.533	0.000	263,828,976.536	289,065,083.260	0.000	0.000
2052	9	862,763,692.682	426,122,239.533	312,871.900	192,676,474.098	298,706,653.051	0.000	0.000
2052	10	661,103,332.428	426,122,239.533	14,759,091.628	57,317,990.136	292,159,114.007	0.000	0.000
2052	11	661,925,671.072	426,122,239.533	72,016,904.401	5,355,717.208	292,950,517.904	0.000	0.000
2052	12	923,735,517.493	426,122,239.533	168,987,318.439	17,961.306	328,607,998.215	0.000	0.000
2053	1	1,035,046,889.828	426,122,239.533	250,206,908.338	0.000	343,072,988.981	53,746,155.408	0.000
2053	2	959,999,813.536	426,122,239.533	266,473,627.723	0.000	305,814,164.523	0.000	-70,615,618.208
2053	3	867,058,590.132	426,122,239.533	217,917,177.767	657,568.428	298,611,811.907	0.000	0.000
2053	4	768,225,521.244	426,122,239.533	126,575,440.078	4,148,199.659	301,891,095.740	0.000	0.000
2053	5	649,488,521.043	426,122,239.533	44,682,863.096	20,948,070.833	297,486,283.446	0.000	0.000
2053	6	746,633,227.574	426,122,239.533	8,133,065.867	100,241,786.895	306,418,336.343	0.000	0.000
2053	7	975,226,551.638	426,122,239.533	249,324.521	240,728,329.798	301,665,567.102	0.000	0.000
2053	8	991,653,027.663	426,122,239.533	0.000	264,385,247.068	289,421,775.121	0.000	0.000
2053	9	863,506,369.503	426,122,239.533	312,452.177	193,077,636.385	299,048,587.308	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb
2053	10	661,501,014.025	426,122,239.533	14,738,905.686	57,435,890.244	292,459,081.437	0.000	0.000
2053	11	662,103,041.701	426,122,239.533	71,916,496.691	5,366,597.765	293,217,415.685	0.000	0.000
2053	12	923,755,074.014	426,122,239.533	168,746,516.844	17,997.260	328,868,320.376	0.000	0.000
2054	1	1,035,021,565.347	426,122,239.533	249,900,055.757	0.000	343,354,517.081	53,746,155.408	0.000
2054	2	959,933,137.008	426,122,239.533	266,143,050.507	0.000	306,078,065.211	0.000	-70,615,618.208
2054	3	867,057,761.335	426,122,239.533	217,643,853.181	658,990.590	298,882,885.535	0.000	0.000
2054	4	768,372,562.148	426,122,239.533	126,414,792.696	4,157,114.497	302,189,869.188	0.000	0.000
2054	5	649,792,027.135	426,122,239.533	44,625,350.894	20,992,736.493	297,802,636.081	0.000	0.000
2054	6	747,184,266.283	426,122,239.533	8,122,433.227	100,453,577.458	306,768,217.128	0.000	0.000
2054	7	976,098,921.569	426,122,239.533	248,993.643	241,232,327.385	302,034,270.325	0.000	0.000
2054	8	992,552,309.100	426,122,239.533	0.000	264,932,871.676	289,773,431.949	0.000	0.000
2054	9	864,238,108.883	426,122,239.533	312,022.315	193,472,698.479	299,385,694.457	0.000	0.000
2054	10	661,892,184.879	426,122,239.533	14,718,265.223	57,552,036.706	292,754,746.292	0.000	0.000
2054	11	662,274,266.446	426,122,239.533	71,813,986.334	5,377,320.102	293,480,428.451	0.000	0.000
2054	12	923,766,634.030	426,122,239.533	168,501,361.316	18,032.726	329,125,000.455	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
1998	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
1999	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
1999	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
1999	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
1999	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
1999	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
1999	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
1999	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2000	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2000	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2000	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2000	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2000	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2000	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2000	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2001	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2001	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2001	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2001	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2001	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2001	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2001	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2002	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2002	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2002	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2002	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2002	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2002	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2002	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2003	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2003	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2003	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2003	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2003	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2003	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2003	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2009	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2010	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2010	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2010	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2010	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2010	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2010	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2010	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2011	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2011	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2011	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2011	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2011	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2011	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2011	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2012	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2012	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2012	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2012	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2012	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2012	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2012	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2013	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2013	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2013	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2013	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2013	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2013	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2013	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2014	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2014	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2014	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2014	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2014	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2014	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2014	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2020	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2021	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2021	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2021	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2021	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2021	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2021	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2021	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2022	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2022	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2022	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2022	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2022	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2022	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2022	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2023	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2023	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2023	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2023	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2023	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2023	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2023	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2024	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2024	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2024	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2024	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2024	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2024	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2024	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2025	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2025	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2025	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2025	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2025	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2025	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2025	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2031	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2032	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2032	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2032	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2032	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2032	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2032	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2032	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2033	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2033	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2033	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2033	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2033	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2033	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2033	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2034	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2034	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2034	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2034	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2034	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2034	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2034	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2035	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2035	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2035	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2035	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2035	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2035	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2035	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2036	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2036	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2036	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2036	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2036	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2036	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2036	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2042	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2043	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2043	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2043	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2043	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2043	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2043	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2043	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2043	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2044	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2044	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2044	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2044	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2044	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2044	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2044	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2044	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2044	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2044	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2044	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2044	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2045	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2045	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2045	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2045	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2045	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2045	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Mar	Apr	May	Jun	Jul	Aug	Sep
2045	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2045	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2045	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2045	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2045	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2045	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2046	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2046	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2046	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2046	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2046	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2046	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2046	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2046	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2046	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2046	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2046	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2046	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2047	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2047	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2047	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000
2047	4	0.000	-90,511,453.765	0.000	0.000	0.000	0.000	0.000
2047	5	0.000	0.000	-114,786,041.639	0.000	0.000	0.000	0.000
2047	6	0.000	0.000	0.000	-94,282,201.063	0.000	0.000	0.000
2047	7	0.000	0.000	0.000	0.000	-54,217,866.581	0.000	0.000
2047	8	0.000	0.000	0.000	0.000	0.000	-49,913,698.986	0.000
2047	9	0.000	0.000	0.000	0.000	0.000	0.000	-55,054,545.901
2047	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2047	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2047	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2048	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2048	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2048	3	-76,250,207.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Oct	Nov	d0610	FebD06on	JanD06on	Feb-98	d9801
2004	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	10	-105,916,268.974	0.000	0.000	0.000	0.000	0.000	0.000
2004	11	0.000	-86,791,564.193	0.000	0.000	0.000	0.000	0.000
2004	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	10	-105,916,268.974	0.000	0.000	0.000	0.000	0.000	0.000
2005	11	0.000	-86,791,564.193	0.000	0.000	0.000	0.000	0.000
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	0.000	0.000	20,350,019.957	0.000	35,236,509.313	0.000	0.000
2006	2	0.000	0.000	20,350,019.957	32,205,399.965	0.000	0.000	0.000
2006	3	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	4	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	5	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	6	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	7	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	8	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	9	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	10	-105,916,268.974	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2006	11	0.000	-86,791,564.193	20,350,019.957	0.000	0.000	0.000	0.000
2006	12	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Oct	Nov	d0610	FebD06on	JanD06on	Feb-98	d9801
2007	1	0.000	0.000	20,350,019.957	0.000	35,236,509.313	0.000	0.000
2007	2	0.000	0.000	20,350,019.957	32,205,399.965	0.000	0.000	0.000
2007	3	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	4	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	5	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	6	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	7	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	8	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	9	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	10	-105,916,268.974	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2007	11	0.000	-86,791,564.193	20,350,019.957	0.000	0.000	0.000	0.000
2007	12	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	1	0.000	0.000	20,350,019.957	0.000	35,236,509.313	0.000	0.000
2008	2	0.000	0.000	20,350,019.957	32,205,399.965	0.000	0.000	0.000
2008	3	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	4	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	5	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	6	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	7	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	8	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	9	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	10	-105,916,268.974	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2008	11	0.000	-86,791,564.193	20,350,019.957	0.000	0.000	0.000	0.000
2008	12	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	1	0.000	0.000	20,350,019.957	0.000	35,236,509.313	0.000	0.000
2009	2	0.000	0.000	20,350,019.957	32,205,399.965	0.000	0.000	0.000
2009	3	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	4	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	5	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	6	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	7	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	8	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000
2009	9	0.000	0.000	20,350,019.957	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
1996	1	0.230209638	197,790,976.029	307,638,802.007	0.000	197,790,976.029	661,386,675.411
1996	2	0.230209638	160,176,091.057	320,803,908.799	0.000	160,176,091.057	535,607,510.877
1996	3	0.230209638	157,174,948.110	246,610,878.429	0.000	157,174,948.110	525,572,088.653
1996	4	0.230209638	151,507,545.761	178,526,803.525	524,536.158	151,507,545.761	506,621,050.173
1996	5	0.230209638	144,785,979.909	67,053,983.033	15,403,305.755	144,785,979.909	484,145,029.366
1996	6	0.230209638	153,601,610.449	12,749,856.735	69,492,799.357	153,601,610.449	513,623,323.533
1996	7	0.230209638	157,463,973.396	32,594.730	193,312,188.566	157,463,973.396	526,538,550.706
1996	8	0.230209638	156,228,682.703	0.000	180,670,326.030	156,228,682.703	522,407,903.186
1996	9	0.230209638	158,941,935.635	546,079.733	201,995,053.043	158,941,935.635	531,480,659.550
1996	10	0.230209638	146,180,772.275	18,702,214.018	28,906,976.713	146,180,772.275	488,809,029.234
1996	11	0.230209638	150,048,531.952	100,878,894.742	0.000	150,048,531.952	501,742,302.355
1996	12	0.230209638	182,139,740.924	228,000,065.779	0.000	182,139,740.924	609,051,030.177
1997	1	0.233568593	201,742,905.523	290,575,891.061	0.000	201,742,905.523	661,998,676.183
1997	2	0.233568593	163,337,018.332	335,905,634.241	0.000	163,337,018.332	535,973,691.996
1997	3	0.233568593	160,194,975.899	234,828,224.840	0.000	160,194,975.899	525,663,401.651
1997	4	0.233568593	154,619,846.273	155,232,515.852	0.000	154,619,846.273	507,369,184.948
1997	5	0.233568593	147,749,280.968	94,413,314.906	0.000	147,749,280.968	484,824,128.779
1997	6	0.233568593	154,539,512.890	21,922,886.986	22,275,122.317	154,539,512.890	507,105,579.182
1997	7	0.233568593	160,390,191.454	0.000	238,327,374.215	160,390,191.454	526,303,981.496
1997	8	0.233568593	159,191,829.262	0.000	258,653,443.111	159,191,829.262	522,371,678.734
1997	9	0.233568593	161,569,021.395	165,198.861	100,600,341.756	161,569,021.395	530,172,191.177
1997	10	0.233568593	148,536,979.277	13,488,693.665	53,896,710.730	148,536,979.277	487,408,880.083
1997	11	0.233568593	152,596,876.135	123,028,211.108	12,018,050.600	152,596,876.135	500,731,015.692
1997	12	0.233568593	185,673,609.688	211,408,035.723	0.000	185,673,609.688	609,268,928.177
1998	1	0.236546071	200,141,154.473	239,424,326.508	0.000	200,141,154.473	645,956,830.985
1998	2	0.236546071	128,075,369.422	239,005,161.673	0.000	128,075,369.422	413,364,057.869
1998	3	0.236546071	157,862,362.966	196,640,224.573	0.000	157,862,362.966	509,501,766.300
1998	4	0.236546071	151,972,071.400	130,665,827.688	10,066,323.205	151,972,071.400	490,490,813.338
1998	5	0.236546071	144,890,056.844	30,061,026.060	19,496,974.439	144,890,056.844	467,633,566.954
1998	6	0.236546071	151,946,250.813	3,529,477.075	103,716,778.428	151,946,250.813	490,407,477.231
1998	7	0.236546071	158,022,642.728	1,398,795.762	299,729,004.199	158,022,642.728	510,019,070.237
1998	8	0.236546071	156,871,260.922	0.000	301,163,316.995	156,871,260.922	506,302,978.238
1998	9	0.236546071	159,643,916.276	66,850.090	254,151,360.526	159,643,916.276	515,251,740.780

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
1998	10	0.236546071	146,549,775.225	10,693,526.318	108,454,043.787	146,549,775.225	472,990,318.434
1998	11	0.236546071	150,580,793.601	69,440,599.764	5,544,770.412	150,580,793.601	486,000,455.519
1998	12	0.236546071	183,594,024.414	114,830,481.866	0.000	183,594,024.414	592,550,864.966
1999	1	0.238087115	202,705,038.946	321,751,002.610	0.000	202,705,038.946	648,685,171.714
1999	2	0.238087115	163,619,728.212	273,898,114.231	0.000	163,619,728.212	523,606,576.545
1999	3	0.238087115	160,165,219.382	249,794,390.549	0.000	160,165,219.382	512,551,653.267
1999	4	0.238087115	154,368,432.784	146,323,763.051	0.000	154,368,432.784	494,001,105.490
1999	5	0.238087115	147,322,258.376	34,357,279.454	21,612,441.346	147,322,258.376	471,452,337.686
1999	6	0.238087115	154,176,553.451	2,427,833.328	172,567,713.395	154,176,553.451	493,387,064.128
1999	7	0.238087115	160,117,733.523	0.000	345,969,104.572	160,117,733.523	512,399,691.712
1999	8	0.238087115	158,981,478.968	0.000	433,219,981.980	158,981,478.968	508,763,514.316
1999	9	0.238087115	161,598,041.490	213,004.247	198,462,085.702	161,598,041.490	517,136,889.330
1999	10	0.238087115	148,694,891.579	17,434,387.379	56,590,708.738	148,694,891.579	475,844,960.630
1999	11	0.238087115	152,725,294.080	60,347,336.993	4,412,924.756	152,725,294.080	488,742,826.180
1999	12	0.238087115	190,549,229.978	147,252,494.625	265,539.616	190,549,229.978	609,784,841.119
2000	1	0.239879689	206,333,229.201	260,622,792.451	0.000	206,333,229.201	653,819,751.552
2000	2	0.239879689	166,603,845.776	320,433,819.448	0.000	166,603,845.776	527,927,011.438
2000	3	0.239879689	163,429,316.950	159,858,588.479	3,432,351.181	163,429,316.950	517,867,702.736
2000	4	0.239879689	157,523,109.969	114,712,654.034	2,095,178.923	157,523,109.969	499,152,371.250
2000	5	0.239879689	150,287,603.553	52,729,539.826	46,996,642.136	150,287,603.553	476,224,813.601
2000	6	0.239879689	157,122,897.132	6,433,275.230	105,772,187.922	157,122,897.132	497,884,194.240
2000	7	0.239879689	163,050,312.828	629,047.565	215,589,396.668	163,050,312.828	516,666,730.978
2000	8	0.239879689	161,773,272.009	0.000	221,228,233.190	161,773,272.009	512,620,099.641
2000	9	0.239879689	164,771,626.416	977,968.026	259,762,937.326	164,771,626.416	522,121,154.518
2000	10	0.239879689	151,550,229.884	22,700,222.214	64,825,457.550	151,550,229.884	480,225,768.937
2000	11	0.239879689	155,590,973.946	61,292,268.011	4,407,813.050	155,590,973.946	493,029,902.760
2000	12	0.239879689	189,801,501.445	266,508,142.710	0.000	189,801,501.445	601,434,732.541
2001	1	0.241391915	209,119,172.967	389,901,761.486	0.000	209,119,172.967	657,186,447.805
2001	2	0.241391915	168,967,181.642	311,994,812.395	0.000	168,967,181.642	531,003,161.133
2001	3	0.241391915	165,685,770.254	257,415,548.605	0.000	165,685,770.254	520,690,863.780
2001	4	0.241391915	159,688,988.235	163,614,712.108	4,409,983.636	159,688,988.235	501,845,131.856
2001	5	0.241391915	153,235,056.594	29,602,098.603	53,634,949.019	153,235,056.594	481,562,742.875
2001	6	0.241391915	159,191,386.065	9,969,446.460	89,491,445.029	159,191,386.065	500,281,346.969

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2001	7	0.241391915	165,175,522.712	1,130,386.316	250,297,738.368	165,175,522.712	519,087,339.028
2001	8	0.241391915	163,875,434.579	0.000	416,364,307.460	163,875,434.579	515,001,629.001
2001	9	0.241391915	166,970,881.023	342,963.302	235,967,160.237	166,970,881.023	524,729,505.329
2001	10	0.241391915	153,674,712.616	19,014,240.840	34,541,964.029	153,674,712.616	482,944,423.834
2001	11	0.241391915	157,780,829.158	60,874,964.955	1,827,752.645	157,780,829.158	495,848,473.264
2001	12	0.241391915	192,331,126.636	100,790,774.172	0.000	192,331,126.636	604,427,648.227
2002	1	0.243627296	216,917,604.408	268,528,694.525	0.000	216,917,604.408	673,448,984.949
2002	2	0.243627296	176,248,552.800	230,639,498.756	0.000	176,248,552.800	547,186,611.738
2002	3	0.243627296	173,100,282.544	232,326,630.869	0.000	173,100,282.544	537,412,396.249
2002	4	0.243627296	167,603,157.765	182,102,604.418	16,896,720.642	167,603,157.765	520,345,855.649
2002	5	0.243627296	159,382,872.408	66,573,389.777	36,012,365.455	159,382,872.408	494,824,907.986
2002	6	0.243627296	166,399,166.076	25,302,601.504	88,852,727.086	166,399,166.076	516,607,906.472
2002	7	0.243627296	172,466,423.767	0.000	412,768,307.721	172,466,423.767	535,444,499.035
2002	8	0.243627296	171,120,589.291	0.000	445,661,213.462	171,120,589.291	531,266,180.432
2002	9	0.243627296	174,222,855.253	0.000	294,594,574.538	174,222,855.253	540,897,569.588
2002	10	0.243627296	160,791,290.840	16,545,534.378	125,259,089.999	160,791,290.840	499,197,526.639
2002	11	0.243627296	164,987,976.912	120,458,974.156	7,791,352.748	164,987,976.912	512,226,685.720
2002	12	0.243627296	199,930,157.510	238,967,780.089	0.000	199,930,157.510	620,709,241.203
2003	1	0.242088046	216,089,257.546	297,148,215.302	0.000	216,089,257.546	676,516,803.818
2003	2	0.242088046	174,314,314.266	369,395,307.875	0.000	174,314,314.266	545,730,797.014
2003	3	0.242088046	172,442,408.376	317,697,454.414	0.000	172,442,408.376	539,870,367.839
2003	4	0.242088046	166,398,982.890	132,506,915.330	5,348,974.254	166,398,982.890	520,950,043.245
2003	5	0.242088046	158,945,218.710	52,324,585.562	12,945,562.046	158,945,218.710	497,614,331.064
2003	6	0.242088046	166,000,989.703	13,738,284.240	24,179,059.028	166,000,989.703	519,704,034.618
2003	7	0.242088046	172,631,454.757	720,358.587	234,846,639.018	172,631,454.757	540,462,220.735
2003	8	0.242088046	171,537,298.542	0.000	252,900,470.585	171,537,298.542	537,036,714.657
2003	9	0.242088046	173,112,682.284	47,345.623	268,122,217.499	173,112,682.284	541,968,813.484
2003	10	0.242088046	160,336,526.435	31,511,324.107	44,122,889.725	160,336,526.435	501,970,137.852
2003	11	0.242088046	163,405,829.479	79,939,189.448	1,311,021.858	163,405,829.479	511,579,292.463
2003	12	0.242088046	200,433,070.597	182,518,174.253	0.000	200,433,070.597	627,501,532.652
2004	1	0.240474066	216,502,745.816	276,258,153.995	0.000	216,502,745.816	683,813,656.243
2004	2	0.240474066	175,940,832.527	392,633,707.825	0.000	175,940,832.527	555,700,776.540
2004	3	0.240474066	170,084,196.603	250,919,454.016	0.000	170,084,196.603	537,202,869.692

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2004	4	0.240474066	167,114,856.373	134,702,062.750	7,859,279.135	167,114,856.373	527,824,349.378
2004	5	0.240474066	161,560,277.499	47,613,616.672	72,120,676.506	161,560,277.499	510,280,475.400
2004	6	0.240474066	166,576,324.280	5,349,206.224	134,792,084.957	166,576,324.280	526,123,421.298
2004	7	0.240474066	170,764,004.593	48,479.885	201,832,700.609	170,764,004.593	539,350,010.993
2004	8	0.240474066	170,883,755.375	0.000	202,238,471.576	170,883,755.375	539,728,238.159
2004	9	0.240474066	173,929,908.195	0.000	169,207,046.688	173,929,908.195	549,349,367.392
2004	10	0.240474066	159,894,052.674	19,013,169.385	59,940,709.879	159,894,052.674	505,017,783.301
2004	11	0.240474066	163,565,203.665	66,663,327.944	3,573,118.759	163,565,203.665	516,612,939.624
2004	12	0.240474066	200,719,785.586	183,256,435.795	257,684.386	200,719,785.586	633,963,924.774
2005	1	0.238916239	214,874,594.837	313,667,490.674	0.000	214,874,594.837	684,497,486.721
2005	2	0.238916239	174,634,395.861	343,178,036.896	0.000	174,634,395.861	556,309,624.003
2005	3	0.238916239	176,111,278.156	285,373,655.818	0.000	176,111,278.156	561,014,331.976
2005	4	0.238916239	166,261,682.716	164,037,263.784	2,628,920.611	166,261,682.716	529,637,782.650
2005	5	0.238916239	155,997,150.252	58,735,158.296	16,335,273.723	155,997,150.252	496,939,423.501
2005	6	0.238916239	164,799,883.441	8,588,354.058	112,763,537.062	164,799,883.441	524,981,122.655
2005	7	0.238916239	169,448,304.143	0.000	359,743,677.547	169,448,304.143	539,788,979.722
2005	8	0.238916239	168,971,056.363	0.000	382,077,988.741	168,971,056.363	538,268,674.789
2005	9	0.238916239	174,588,834.422	0.000	252,151,071.039	174,588,834.422	556,164,484.974
2005	10	0.238916239	160,226,103.712	11,623,356.401	120,932,385.620	160,226,103.712	510,411,039.431
2005	11	0.238916239	165,225,793.312	76,819,422.952	10,104,740.667	165,225,793.312	526,337,887.218
2005	12	0.238916239	195,637,244.341	262,092,255.067	0.000	195,637,244.341	623,215,611.702
2006	1	0.231567799	220,247,868.813	284,097,143.063	0.000	220,247,868.813	730,868,259.148
2006	2	0.231567799	182,115,404.486	239,379,991.453	0.000	182,115,404.486	604,329,882.317
2006	3	0.231567799	167,908,496.970	267,594,295.550	0.000	167,908,496.970	557,185,826.758
2006	4	0.231567799	162,939,390.240	154,795,145.061	1,447,092.380	162,939,390.240	540,696,394.170
2006	5	0.231567799	157,477,678.540	36,772,722.742	2,603,436.969	157,477,678.540	522,572,306.325
2006	6	0.231567799	164,178,849.050	19,038,673.183	101,479,148.199	164,178,849.050	544,809,401.519
2006	7	0.231567799	171,873,403.167	0.000	216,301,419.861	171,873,403.167	570,342,930.640
2006	8	0.231567799	167,924,003.543	0.000	354,365,120.414	167,924,003.543	557,237,283.612
2006	9	0.231567799	170,346,698.968	770,068.529	151,229,267.352	170,346,698.968	565,276,731.153
2006	10	0.231567799	159,932,125.941	27,054,632.436	17,198,583.361	159,932,125.941	530,717,119.297
2006	11	0.231567799	164,452,787.973	123,614,476.136	663,005.282	164,452,787.973	545,718,437.620
2006	12	0.231567799	193,671,012.860	180,538,919.616	0.000	193,671,012.860	642,675,894.116

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2007	1	0.224322049	213,915,536.350	211,069,412.849	0.000	213,915,536.350	739,693,516.491
2007	2	0.224322049	174,532,973.598	370,256,228.029	0.000	174,532,973.598	603,513,476.335
2007	3	0.224322049	162,710,473.425	333,084,564.282	398,688.156	162,710,473.425	562,632,730.244
2007	4	0.224322049	161,649,348.873	133,571,203.955	10,539,375.859	161,649,348.873	558,963,492.540
2007	5	0.224322049	151,350,698.632	51,739,258.650	25,763,241.075	151,350,698.632	523,352,031.391
2007	6	0.224322049	158,024,891.320	3,198,088.974	164,397,811.319	158,024,891.320	546,430,565.765
2007	7	0.224322049	164,548,280.222	0.000	279,053,956.491	164,548,280.222	568,987,639.265
2007	8	0.224322049	161,371,226.230	0.000	296,167,140.800	161,371,226.230	558,001,778.773
2007	9	0.224322049	167,915,729.078	667,620.932	254,632,044.904	167,915,729.078	580,631,861.696
2007	10	0.224322049	151,090,650.418	6,853,924.734	135,342,836.438	151,090,650.418	522,452,816.769
2007	11	0.224322049	160,069,556.709	74,157,101.487	27,526,357.671	160,069,556.709	553,500,766.265
2007	12	0.224322049	190,361,032.259	234,024,712.773	0.000	190,361,032.259	658,244,949.185
2008	1	0.217510305	207,542,998.941	294,014,714.639	0.000	207,542,998.941	746,632,476.534
2008	2	0.217510305	169,449,066.363	361,631,257.990	0.000	169,449,066.363	609,590,189.553
2008	3	0.217510305	157,695,369.642	330,732,600.501	0.000	157,695,369.642	567,306,461.669
2008	4	0.217510305	154,505,808.128	184,293,652.096	259,900.405	154,505,808.128	555,832,067.330
2008	5	0.217510305	147,232,632.744	55,414,952.038	6,642,639.491	147,232,632.744	529,666,940.217
2008	6	0.217510305	152,541,078.963	16,182,057.937	106,818,941.319	152,541,078.963	548,763,986.936
2008	7	0.217510305	159,988,740.191	6,189.304	220,793,383.218	159,988,740.191	575,556,823.962
2008	8	0.217510305	159,516,204.272	0.000	276,502,636.063	159,516,204.272	573,856,883.879
2008	9	0.217510305	158,986,322.903	0.000	176,536,360.899	158,986,322.903	571,950,644.493
2008	10	0.217510305	148,290,504.528	12,312,269.451	54,195,197.445	148,290,504.528	533,472,616.313
2008	11	0.217510305	154,767,055.580	94,405,607.441	5,918,008.592	154,767,055.580	556,771,900.680
2008	12	0.217510305	181,070,991.644	275,018,102.035	0.000	181,070,991.644	651,399,871.878
2009	1	0.211869584	200,480,560.686	363,067,654.154	0.000	200,480,560.686	745,764,563.572
2009	2	0.211869584	165,176,000.198	414,492,623.469	0.000	165,176,000.198	614,435,670.366
2009	3	0.211869584	152,695,203.290	265,650,796.260	0.000	152,695,203.290	568,008,545.327
2009	4	0.211869584	150,533,557.262	145,154,023.349	508,400.735	150,533,557.262	559,967,471.412
2009	5	0.211869584	143,790,360.973	56,120,576.156	15,923,326.539	143,790,360.973	534,883,558.934
2009	6	0.211869584	147,670,737.275	8,504,158.111	65,653,058.221	147,670,737.275	549,318,111.241
2009	7	0.211869584	153,549,842.817	6,086.166	194,546,205.668	153,549,842.817	571,187,705.795
2009	8	0.211869584	151,763,549.370	0.000	189,891,796.071	151,763,549.370	564,542,900.192
2009	9	0.211869584	155,756,950.768	0.000	131,852,091.913	155,756,950.768	579,397,892.822

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2009	10	0.211869584	144,276,493.113	35,267,628.667	29,836,764.724	144,276,493.113	536,691,914.427
2009	11	0.211869584	149,905,752.501	83,400,318.836	0.000	149,905,752.501	557,632,110.108
2009	12	0.211869584	177,434,390.575	193,875,348.555	0.000	177,434,390.575	660,035,468.762
2010	1	0.185533689	173,385,282.684	343,191,750.803	0.000	173,385,282.684	761,136,549.237
2010	2	0.185533689	144,212,686.699	349,331,777.910	0.000	144,212,686.699	633,073,032.564
2010	3	0.185533689	132,394,443.856	265,581,857.171	0.000	132,394,443.856	581,192,639.738
2010	4	0.185533689	131,034,631.092	100,129,425.364	14,144,488.887	131,034,631.092	575,223,256.529
2010	5	0.185533689	124,016,166.980	37,240,720.412	14,949,209.095	124,016,166.980	544,413,204.648
2010	6	0.185533689	129,291,609.828	7,985,931.218	148,850,279.820	129,291,609.828	567,571,642.914
2010	7	0.185533689	134,974,436.207	0.000	299,518,399.054	134,974,436.207	592,518,436.513
2010	8	0.185533689	134,030,458.373	0.000	390,766,073.134	134,030,458.373	588,374,509.069
2010	9	0.185533689	134,841,189.537	0.000	260,270,917.536	134,841,189.537	591,933,502.723
2010	10	0.185533689	125,004,948.086	14,390,933.854	60,576,816.547	125,004,948.086	548,753,812.037
2010	11	0.185533689	128,994,161.698	76,277,473.062	5,878,155.563	128,994,161.698	566,265,888.238
2010	12	0.185533689	154,401,650.218	232,428,982.540	0.000	154,401,650.218	677,801,122.590
2011	1	0.176085491	161,088,592.375	342,457,515.695	0.000	161,088,592.375	753,743,124.263
2011	2	0.176085491	130,452,966.224	378,729,189.558	0.000	130,452,966.224	610,397,203.685
2011	3	0.176085491	120,535,557.731	263,669,402.790	0.000	120,535,557.731	563,993,058.288
2011	4	0.176085491	118,152,708.671	166,751,685.297	3,974,427.210	118,152,708.671	552,843,565.524
2011	5	0.176085491	115,433,484.589	59,484,469.656	19,947,769.339	115,433,484.589	540,120,153.986
2011	6	0.176085491	119,321,361.055	7,848,713.337	147,821,011.010	119,321,361.055	558,311,759.676
2011	7	0.176085491	126,706,114.055	0.000	280,174,659.712	126,706,114.055	592,865,459.080
2011	8	0.176085491	123,204,123.611	0.000	413,225,290.691	123,204,123.611	576,479,437.083
2011	9	0.176085491	124,560,863.265	1,358,931.145	210,832,175.177	124,560,863.265	582,827,702.784
2011	10	0.176085491	115,642,517.625	15,778,406.331	33,987,095.925	115,642,517.625	541,098,232.020
2011	11	0.176085491	120,005,890.288	70,312,261.659	5,629,646.721	120,005,890.288	561,514,712.755
2011	12	0.176085491	141,022,950.373	162,509,516.705	0.000	141,022,950.373	659,854,789.465
2012	1	0.171865896	155,653,278.388	241,705,183.520	0.000	155,653,278.388	750,013,767.436
2012	2	0.171865896	127,328,701.095	272,468,762.753	0.000	127,328,701.095	613,532,074.622
2012	3	0.171865896	119,991,750.284	192,816,982.924	12,670,944.096	119,991,750.284	578,179,050.410
2012	4	0.171865896	117,024,764.642	55,975,961.110	37,979,487.747	117,024,764.642	563,882,659.726
2012	5	0.171865896	112,002,755.188	46,670,465.172	26,049,917.112	112,002,755.188	539,684,157.326
2012	6	0.171865896	116,436,738.822	3,097,229.076	165,536,967.877	116,436,738.822	561,049,263.184

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2012	7	0.171865896	123,036,635.405	276,811.123	419,548,369.706	123,036,635.405	592,850,798.957
2012	8	0.171865896	119,886,348.148	0.000	369,769,333.187	119,886,348.148	577,671,171.271
2012	9	0.171865896	122,020,558.582	534,441.767	190,649,033.019	122,020,558.582	587,954,842.930
2012	10	0.171865896	112,686,158.726	25,979,058.546	31,589,186.488	112,686,158.726	542,977,130.446
2012	11	0.171865896	118,046,378.787	103,315,976.017	7,359,334.013	118,046,378.787	568,805,297.278
2012	12	0.171865896	138,183,200.750	160,033,655.235	0.000	138,183,200.750	665,834,372.808
2013	1	0.156143446	141,543,640.172	259,393,268.245	0.000	141,543,640.172	764,953,837.478
2013	2	0.156143446	114,518,000.985	306,352,813.720	0.000	114,518,000.985	618,897,353.545
2013	3	0.156143446	108,032,039.658	276,752,192.274	0.000	108,032,039.658	583,844,835.459
2013	4	0.156143446	107,014,546.483	198,833,396.824	0.000	107,014,546.483	578,345,928.498
2013	5	0.156143446	100,011,152.443	57,197,635.774	27,370,274.016	100,011,152.443	540,497,013.914
2013	6	0.156143446	105,465,931.555	10,960,368.029	113,421,931.001	105,465,931.555	569,976,644.435
2013	7	0.156143446	110,529,167.373	157,770.229	250,443,079.807	110,529,167.373	597,340,231.125
2013	8	0.156143446	108,793,572.926	0.000	204,502,470.509	108,793,572.926	587,960,441.042
2013	9	0.156143446	110,198,618.219	17,593.030	230,740,112.748	110,198,618.219	595,553,822.049
2013	10	0.156143446	101,564,593.917	7,656,237.423	85,791,805.556	101,564,593.917	548,892,382.408
2013	11	0.156143446	106,815,742.290	92,945,160.887	7,749,792.040	106,815,742.290	577,271,517.590
2013	12	0.156143446	124,651,936.634	239,839,803.553	0.000	124,651,936.634	673,664,865.205
2014	1	0.149740852	137,192,066.570	369,463,555.051	0.000	137,192,066.570	779,004,580.419
2014	2	0.149740852	109,795,066.161	433,271,101.612	0.000	109,795,066.161	623,438,815.271
2014	3	0.149740852	104,003,889.354	373,732,488.293	0.000	104,003,889.354	590,555,330.301
2014	4	0.149740852	100,637,197.493	201,396,580.529	731,715.436	100,637,197.493	571,438,566.149
2014	5	0.149740852	98,321,769.754	54,610,721.190	21,276,157.275	98,321,769.754	558,291,094.438
2014	6	0.149740852	100,010,360.914	12,475,248.864	137,266,735.514	100,010,360.914	567,879,259.997
2014	7	0.149740852	106,416,716.165	0.000	235,348,809.612	106,416,716.165	604,255,853.846
2014	8	0.149740852	103,946,704.222	0.000	176,400,052.890	103,946,704.222	590,230,621.440
2014	9	0.149740852	105,777,384.358	1,196,013.086	241,153,553.096	105,777,384.358	600,625,597.237
2014	10	0.149740852	97,735,943.998	17,195,488.683	36,264,489.702	97,735,943.998	554,964,656.116
2014	11	0.149740852	101,200,518.261	101,574,862.478	954,006.440	101,200,518.261	574,637,216.546
2014	12	0.149740852	120,683,691.052	251,260,168.325	0.000	120,683,691.052	685,266,651.795
2015	1	0.138003518	125,721,766.086	315,038,696.178	0.000	125,721,766.086	785,282,301.589
2015	2	0.138003518	101,781,965.943	378,740,897.079	0.000	101,781,965.943	635,749,711.165
2015	3	0.138003518	95,141,408.886	395,231,677.863	0.000	95,141,408.886	594,271,516.162

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2015	4	0.138003518	94,266,355.392	161,956,995.429	300,748.860	94,266,355.392	588,805,763.942
2015	5	0.138003518	85,771,276.343	49,550,742.086	28,059,930.969	85,771,276.343	535,743,868.335
2015	6	0.138003518	92,747,718.828	8,171,168.814	124,826,083.093	92,747,718.828	579,320,068.240
2015	7	0.138003518	97,466,532.120	75,161.334	173,734,502.547	97,466,532.120	608,794,682.530
2015	8	0.138003518	96,835,945.235	0.000	280,366,244.189	96,835,945.235	604,855,915.711
2015	9	0.138003518	97,583,575.926	82,006.939	212,117,223.819	97,583,575.926	609,525,760.621
2015	10	0.138003518	89,889,428.603	12,499,163.367	62,315,412.142	89,889,428.603	561,466,638.433
2015	11	0.138003518	86,183,225.856	62,178,680.239	1,469,337.251	86,183,225.856	538,316,984.130
2015	12	0.138003518	111,986,235.320	161,854,678.883	0.000	111,986,235.320	699,487,537.891
2016	1	0.132583519	110,624,277.527	256,876,803.442	0.000	110,624,277.527	723,749,995.791
2016	2	0.132583519	97,332,440.994	346,996,175.499	0.000	97,332,440.994	636,789,277.494
2016	3	0.132583519	90,908,136.415	250,289,901.009	0.000	90,908,136.415	594,758,807.185
2016	4	0.132583519	90,718,645.565	140,949,743.936	131,054.629	90,718,645.565	593,519,079.296
2016	5	0.132583519	82,239,094.160	62,415,273.073	5,272,199.330	82,239,094.160	538,042,330.151
2016	6	0.132583519	89,109,793.591	12,454,237.975	127,010,551.323	89,109,793.591	582,993,301.091
2016	7	0.132583519	101,173,104.770	0.000	224,802,650.224	101,173,104.770	661,916,495.984
2016	8	0.132583519	100,344,738.833	0.000	332,072,905.448	100,344,738.833	656,496,981.778
2016	9	0.132583519	92,752,203.580	0.000	255,491,290.337	92,752,203.580	606,823,460.916
2016	10	0.132583519	86,301,564.074	5,209,820.879	88,996,887.425	86,301,564.074	564,620,696.577
2016	11	0.132583519	82,965,187.214	57,255,116.762	8,538,106.738	82,965,187.214	542,792,732.657
2016	12	0.132583519	105,849,547.885	215,382,120.745	110,782.049	105,849,547.885	692,511,730.237
2017	1	0.128532799	106,043,920.761	344,040,601.914	0.000	106,043,920.761	718,990,011.865
2017	2	0.128532799	93,777,541.839	274,375,629.326	0.000	93,777,541.839	635,822,548.204
2017	3	0.128532799	87,233,992.630	206,208,060.479	0.000	87,233,992.630	591,456,529.959
2017	4	0.128532799	85,676,653.704	157,693,596.726	2,286,609.199	85,676,653.704	580,897,592.447
2017	5	0.128532799	77,821,254.924	50,190,769.783	19,556,053.807	77,821,254.924	527,637,082.822
2017	6	0.128532799	85,998,152.479	11,258,775.828	92,222,508.424	85,998,152.479	583,077,391.214
2017	7	0.128532799	97,337,951.234	0.000	207,807,043.283	97,337,951.234	659,962,534.492
2017	8	0.128532799	97,112,957.418	0.000	204,632,915.420	97,112,957.418	658,437,050.473
2017	9	0.128532799	89,981,414.151	0.000	103,288,322.534	89,981,414.151	610,084,364.704
2017	10	0.128532799	82,583,952.248	2,470,482.689	118,455,233.555	82,583,952.248	559,928,719.921
2017	11	0.128532799	79,730,720.949	105,320,207.246	6,765,463.559	79,730,720.949	540,583,482.671
2017	12	0.128532799	101,888,768.012	220,987,977.081	0.000	101,888,768.012	690,817,597.055

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2018	1	0.125895237	103,683,457.457	412,240,038.609	0.000	103,683,457.457	719,885,882.909
2018	2	0.125895237	90,928,794.673	358,720,281.261	0.000	90,928,794.673	631,328,827.571
2018	3	0.125895237	85,132,802.835	268,826,258.633	0.000	85,132,802.835	591,086,605.677
2018	4	0.125895237	84,814,104.063	228,560,174.216	0.000	84,814,104.063	588,873,844.332
2018	5	0.125895237	77,338,201.180	93,819,895.827	18,954,356.002	77,338,201.180	536,967,811.492
2018	6	0.125895237	83,360,710.989	2,011,177.216	139,074,142.225	83,360,710.989	578,782,773.083
2018	7	0.125895237	95,348,176.688	0.000	256,012,401.068	95,348,176.688	662,013,092.949
2018	8	0.125895237	94,382,602.661	0.000	251,651,485.493	94,382,602.661	655,309,004.097
2018	9	0.125895237	87,345,818.360	0.000	239,019,663.225	87,345,818.360	606,451,820.863
2018	10	0.125895237	77,324,940.263	20,113,727.470	95,551,203.414	77,324,940.263	536,875,739.459
2018	11	0.125895237	77,514,269.520	141,956,203.804	10,308,736.428	77,514,269.520	538,190,273.743
2018	12	0.125895237	99,885,752.961	268,211,843.538	0.000	99,885,752.961	693,517,994.322
2019	1	0.121721143	99,509,220.211	272,995,293.379	0.000	99,509,220.211	718,008,739.150
2019	2	0.121721143	87,861,342.350	343,589,188.143	0.000	87,861,342.350	633,963,481.041
2019	3	0.121721143	82,158,013.154	280,886,744.198	656,798.583	82,158,013.154	592,811,111.481
2019	4	0.121721143	80,649,788.706	163,098,402.536	4,142,489.705	80,649,788.706	581,928,518.573
2019	5	0.121721143	73,849,797.339	57,550,011.881	20,912,531.334	73,849,797.339	532,863,183.550
2019	6	0.121721143	80,306,862.084	10,470,752.450	100,042,654.414	80,306,862.084	579,454,131.669
2019	7	0.121721143	91,792,410.020	320,883.691	240,198,181.333	91,792,410.020	662,328,098.267
2019	8	0.121721143	90,878,405.511	0.000	263,745,747.823	90,878,405.511	655,733,099.087
2019	9	0.121721143	84,146,042.945	401,810.057	192,551,183.352	84,146,042.945	607,155,739.655
2019	10	0.121721143	74,506,332.814	18,946,299.823	57,263,978.641	74,506,332.814	537,600,415.009
2019	11	0.121721143	74,214,050.411	92,406,303.240	5,349,059.404	74,214,050.411	535,491,451.446
2019	12	0.121721143	95,409,246.955	215,809,580.453	17,872.386	95,409,246.955	688,425,383.744
2020	1	0.114635141	93,061,486.101	315,313,293.788	0.000	93,061,486.101	718,744,433.411
2020	2	0.114635141	82,131,064.228	335,667,304.436	0.000	82,131,064.228	634,325,193.991
2020	3	0.114635141	76,779,263.563	274,381,126.734	645,715.924	76,779,263.563	592,991,479.069
2020	4	0.114635141	75,359,242.075	159,288,627.924	4,071,951.489	75,359,242.075	582,024,186.558
2020	5	0.114635141	68,973,585.221	56,202,178.769	20,555,429.985	68,973,585.221	532,705,660.604
2020	6	0.114635141	75,047,870.690	10,224,631.626	98,327,869.872	75,047,870.690	579,619,363.043
2020	7	0.114635141	85,880,550.341	313,291.732	236,054,076.603	85,880,550.341	663,283,707.173
2020	8	0.114635141	85,042,537.081	0.000	259,206,692.355	85,042,537.081	656,811,455.429
2020	9	0.114635141	78,677,159.619	392,365.578	189,256,405.758	78,677,159.619	607,649,553.881

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2020	10	0.114635141	69,601,362.901	18,505,064.841	56,294,740.433	69,601,362.901	537,554,193.886
2020	11	0.114635141	69,315,415.356	90,275,466.398	5,259,512.065	69,315,415.356	535,345,727.048
2020	12	0.114635141	89,270,853.967	211,509,173.878	17,618.221	89,270,853.967	689,468,135.991
2021	1	0.110571403	89,236,431.803	310,051,798.031	0.000	89,236,431.803	717,811,586.930
2021	2	0.110571403	78,761,506.090	330,156,130.413	0.000	78,761,506.090	633,552,020.549
2021	3	0.110571403	73,620,438.895	269,944,636.390	638,696.259	73,620,438.895	592,197,637.289
2021	4	0.110571403	72,260,115.887	156,762,556.823	4,028,705.705	72,260,115.887	581,255,294.597
2021	5	0.110571403	66,121,141.665	55,329,099.101	20,342,629.984	66,121,141.665	531,873,817.336
2021	6	0.110571403	71,982,974.875	10,069,490.453	97,339,884.251	71,982,974.875	579,025,991.772
2021	7	0.110571403	82,447,606.455	308,616.934	233,736,374.169	82,447,606.455	663,202,752.876
2021	8	0.110571403	81,658,804.929	0.000	256,737,496.214	81,658,804.929	656,857,688.828
2021	9	0.110571403	75,504,649.864	386,717.211	187,486,762.361	75,504,649.864	607,354,097.925
2021	10	0.110571403	66,750,490.523	18,240,970.563	55,775,186.732	66,750,490.523	536,936,255.327
2021	11	0.110571403	66,464,708.046	88,995,370.178	5,211,491.680	66,464,708.046	534,637,441.160
2021	12	0.110571403	85,699,389.064	208,916,010.722	17,485.006	85,699,389.064	689,359,863.680
2022	1	0.108255473	87,006,430.394	306,826,880.164	0.000	87,006,430.394	716,707,488.770
2022	2	0.108255473	76,798,217.050	326,803,202.912	0.000	76,798,217.050	632,618,267.812
2022	3	0.108255473	71,779,740.150	267,258,656.111	635,336.772	71,779,740.150	591,279,024.719
2022	4	0.108255473	70,455,781.953	155,245,602.157	4,008,377.036	70,455,781.953	580,373,040.530
2022	5	0.108255473	64,458,833.979	54,803,121.726	20,242,918.531	64,458,833.979	530,973,731.726
2022	6	0.108255473	70,197,888.167	9,975,023.148	96,871,607.283	70,197,888.167	578,248,664.125
2022	7	0.108255473	80,454,869.321	305,784.140	232,644,379.648	80,454,869.321	662,739,605.449
2022	8	0.108255473	79,690,329.721	0.000	255,524,043.287	79,690,329.721	656,441,780.629
2022	9	0.108255473	73,652,712.540	383,160.095	186,597,430.956	73,652,712.540	606,707,462.962
2022	10	0.108255473	65,078,587.564	18,072,893.656	55,507,691.910	65,078,587.564	536,078,895.026
2022	11	0.108255473	64,789,091.531	88,173,236.538	5,186,195.856	64,789,091.531	533,694,198.014
2022	12	0.108255473	83,577,140.468	206,971,468.084	17,398.485	83,577,140.468	688,459,027.597
2023	1	0.106719455	85,458,009.607	303,873,411.402	0.000	85,458,009.607	715,314,538.305
2023	2	0.106719455	75,430,503.425	323,624,042.090	0.000	75,430,503.425	631,380,674.325
2023	3	0.106719455	70,491,121.597	264,623,088.045	632,440.236	70,491,121.597	590,036,256.778
2023	4	0.106719455	69,186,084.069	153,689,101.054	3,989,438.185	69,186,084.069	579,112,619.291
2023	5	0.106719455	63,282,994.462	54,249,568.092	20,145,211.066	63,282,994.462	529,701,618.072
2023	6	0.106719455	68,937,749.773	9,873,477.015	96,394,725.445	68,937,749.773	577,033,971.158

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2023	7	0.106719455	79,056,439.666	302,658.816	231,483,727.604	79,056,439.666	661,731,075.881
2023	8	0.106719455	78,309,632.311	0.000	254,223,302.634	78,309,632.311	655,480,027.435
2023	9	0.106719455	72,344,687.384	379,183.620	185,635,369.549	72,344,687.384	605,551,274.749
2023	10	0.106719455	63,890,402.326	17,886,095.487	55,222,428.489	63,890,402.326	534,785,842.217
2023	11	0.106719455	63,596,925.927	87,265,418.929	5,159,626.449	63,596,925.927	532,329,338.310
2023	12	0.106719455	82,069,473.522	204,762,831.913	17,303.943	82,069,473.522	686,951,262.165
2024	1	0.105486318	84,158,212.044	300,561,893.303	0.000	84,158,212.044	713,653,428.655
2024	2	0.105486318	74,283,316.850	320,077,573.516	0.000	74,283,316.850	629,915,280.683
2024	3	0.105486318	69,411,689.393	261,720,486.606	629,408.366	69,411,689.393	588,604,355.067
2024	4	0.105486318	68,124,572.515	151,994,825.343	3,970,189.157	68,124,572.515	577,689,729.497
2024	5	0.105486318	62,300,051.371	53,651,057.469	20,047,963.314	62,300,051.371	528,298,358.368
2024	6	0.105486318	67,889,327.226	9,764,813.219	95,932,142.720	67,889,327.226	575,694,872.392
2024	7	0.105486318	77,900,261.992	299,335.111	230,379,027.929	77,900,261.992	660,586,622.661
2024	8	0.105486318	77,172,029.428	0.000	253,026,099.751	77,172,029.428	654,411,281.561
2024	9	0.105486318	71,265,840.339	375,074.926	184,773,070.186	71,265,840.339	604,327,374.220
2024	10	0.105486318	62,906,831.607	17,692,860.418	54,967,750.579	62,906,831.607	533,443,795.582
2024	11	0.105486318	62,609,111.625	86,327,927.467	5,136,107.917	62,609,111.625	530,919,159.174
2024	12	0.105486318	80,828,941.143	202,553,680.015	17,224.593	80,828,941.143	685,421,536.179
2025	1	0.104759201	83,293,636.610	297,347,255.564	0.000	83,293,636.610	711,802,502.510
2025	2	0.104759201	73,524,348.545	316,692,160.750	0.000	73,524,348.545	628,317,089.037
2025	3	0.104759201	68,697,389.377	258,964,598.894	627,164.404	68,697,389.377	587,067,339.888
2025	4	0.104759201	67,425,836.310	150,415,477.452	3,956,436.125	67,425,836.310	576,201,027.746
2025	5	0.104759201	61,652,139.769	53,095,957.059	19,979,164.994	61,652,139.769	526,860,744.213
2025	6	0.104759201	67,204,781.547	9,664,645.913	95,609,235.364	67,204,781.547	574,311,959.868
2025	7	0.104759201	77,156,574.649	296,299.790	229,623,812.262	77,156,574.649	659,357,006.800
2025	8	0.104759201	76,440,825.512	0.000	252,201,534.601	76,440,825.512	653,240,428.773
2025	9	0.104759201	70,565,344.130	371,289.455	184,174,816.064	70,565,344.130	603,030,322.438
2025	10	0.104759201	62,260,553.844	17,514,512.430	54,790,189.490	62,260,553.844	532,060,068.901
2025	11	0.104759201	61,956,440.610	85,458,605.838	5,119,553.655	61,956,440.610	529,461,208.179
2025	12	0.104759201	80,018,071.333	200,532,281.933	17,170.098	80,018,071.333	683,810,501.490
2026	1	0.104190945	82,599,868.277	294,458,032.800	0.000	82,599,868.277	710,174,093.616
2026	2	0.104190945	72,914,248.002	313,622,555.879	0.000	72,914,248.002	626,899,425.711
2026	3	0.104190945	68,123,570.085	256,468,096.866	625,728.315	68,123,570.085	585,710,312.232

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Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2026	4	0.104190945	66,863,757.994	148,972,267.306	3,947,500.454	66,863,757.994	574,878,746.415
2026	5	0.104190945	61,131,243.978	52,588,443.209	19,934,542.170	61,131,243.978	525,591,949.353
2026	6	0.104190945	66,654,256.289	9,571,926.401	95,393,796.181	66,654,256.289	573,077,500.401
2026	7	0.104190945	76,559,174.516	293,453.773	229,104,914.059	76,559,174.516	658,237,640.134
2026	8	0.104190945	75,854,077.591	0.000	251,640,295.781	75,854,077.591	652,175,383.857
2026	9	0.104190945	70,001,884.548	367,753.589	183,771,602.879	70,001,884.548	601,859,614.880
2026	10	0.104190945	61,739,581.832	17,348,990.233	54,673,456.263	61,739,581.832	530,822,294.057
2026	11	0.104190945	61,430,389.745	84,657,801.152	5,108,961.319	61,430,389.745	528,163,933.761
2026	12	0.104190945	79,370,717.697	198,719,067.047	17,139.044	79,370,717.697	682,410,622.150
2027	1	0.103694891	82,007,914.588	291,855,666.515	0.000	82,007,914.588	708,849,899.883
2027	2	0.103694891	72,394,354.531	310,854,055.210	0.000	72,394,354.531	625,753,394.890
2027	3	0.103694891	67,635,798.442	254,218,312.872	625,082.138	67,635,798.442	584,621,974.541
2027	4	0.103694891	66,386,360.783	147,662,370.007	3,943,395.963	66,386,360.783	573,822,239.366
2027	5	0.103694891	60,691,106.489	52,129,482.360	19,914,797.502	60,691,106.489	524,594,302.569
2027	6	0.103694891	66,191,369.517	9,489,013.829	95,303,981.934	66,191,369.517	572,136,797.900
2027	7	0.103694891	76,055,486.581	290,905.589	228,886,389.723	76,055,486.581	657,399,036.655
2027	8	0.103694891	75,358,739.931	0.000	251,403,266.875	75,358,739.931	651,376,583.878
2027	9	0.103694891	69,528,927.908	364,619.540	183,615,694.167	69,528,927.908	600,985,573.573
2027	10	0.103694891	61,301,599.039	17,201,066.857	54,626,821.301	61,301,599.039	529,871,202.798
2027	11	0.103694891	60,986,566.803	83,937,769.262	5,104,664.814	60,986,566.803	527,148,166.002
2027	12	0.103694891	78,812,467.872	196,989,931.398	17,122.027	78,812,467.872	681,229,491.582
2028	1	0.103195472	81,443,938.155	289,360,849.180	0.000	81,443,938.155	707,776,133.710
2028	2	0.103195472	71,899,538.644	308,202,726.307	0.000	71,899,538.644	624,831,984.185
2028	3	0.103195472	67,171,761.527	252,054,409.773	624,953.092	67,171,761.527	583,745,957.592
2028	4	0.103195472	65,933,348.781	146,408,648.943	3,942,612.070	65,933,348.781	572,983,720.338
2028	5	0.103195472	60,273,992.426	51,686,769.079	19,911,028.496	60,273,992.426	523,801,946.332
2028	6	0.103195472	65,750,954.569	9,408,561.821	95,286,964.890	65,750,954.569	571,398,651.225
2028	7	0.103195472	75,574,205.803	288,447.322	228,848,948.757	75,574,205.803	656,766,119.166
2028	8	0.103195472	74,884,758.123	0.000	251,366,547.732	74,884,758.123	650,774,579.164
2028	9	0.103195472	69,076,022.725	361,556.225	183,592,282.590	69,076,022.725	600,294,649.352
2028	10	0.103195472	60,883,813.669	17,057,131.356	54,620,936.360	60,883,813.669	529,101,504.914
2028	11	0.103195472	60,562,826.889	83,237,416.593	5,104,213.709	60,562,826.889	526,312,018.220
2028	12	0.103195472	78,283,631.346	195,380,512.824	17,122.896	78,283,631.346	680,311,968.972

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2029	1	0.102740906	81,033,444.733	286,879,105.119	0.000	81,033,444.733	707,683,027.117
2029	2	0.102740906	71,538,230.276	305,563,975.116	0.000	71,538,230.276	624,759,215.445
2029	3	0.102740906	66,834,091.756	249,901,056.242	625,377.689	66,834,091.756	583,676,931.470
2029	4	0.102740906	65,603,950.980	145,161,328.733	3,945,374.583	65,603,950.980	572,933,839.518
2029	5	0.102740906	59,971,438.269	51,247,500.586	19,925,359.395	59,971,438.269	523,743,858.039
2029	6	0.102740906	65,423,446.728	9,328,754.582	95,356,989.135	65,423,446.728	571,357,455.892
2029	7	0.102740906	75,206,666.443	286,004.675	229,020,194.151	75,206,666.443	656,796,481.291
2029	8	0.102740906	74,522,660.071	0.000	251,556,874.521	74,522,660.071	650,822,902.092
2029	9	0.102740906	68,738,624.268	358,500.002	183,732,100.536	68,738,624.268	600,309,635.877
2029	10	0.102740906	60,581,010.019	16,913,019.807	54,662,651.358	60,581,010.019	529,067,383.191
2029	11	0.102740906	60,259,065.566	82,534,065.965	5,108,094.991	60,259,065.566	526,255,770.947
2029	12	0.102740906	77,893,132.394	193,724,040.544	17,135.453	77,893,132.394	680,257,983.666
2030	1	0.098592937	77,572,075.462	284,396,643.208	0.000	77,572,075.462	709,219,330.818
2030	2	0.098592937	68,487,710.241	302,934,669.121	0.000	68,487,710.241	626,163,574.155
2030	3	0.098592937	63,984,280.899	247,764,880.971	626,024.998	63,984,280.899	584,990,005.900
2030	4	0.098592937	62,811,444.667	143,929,087.795	3,949,611.873	62,811,444.667	574,267,099.193
2030	5	0.098592937	57,420,088.017	50,815,790.830	19,947,637.154	57,420,088.017	524,975,465.160
2030	6	0.098592937	62,661,140.066	9,250,729.211	95,467,407.764	62,661,140.066	572,892,907.156
2030	7	0.098592937	72,057,521.368	283,628.677	229,293,906.621	72,057,521.368	658,801,337.731
2030	8	0.098592937	71,403,775.667	0.000	251,867,260.692	71,403,775.667	652,824,327.501
2030	9	0.098592937	65,843,812.950	355,565.964	183,966,868.799	65,843,812.950	601,991,176.340
2030	10	0.098592937	58,007,962.232	16,775,735.083	54,735,009.805	58,007,962.232	530,350,231.206
2030	11	0.098592937	57,688,532.611	81,869,893.720	5,115,103.338	57,688,532.611	527,429,777.405
2030	12	0.098592937	74,588,384.340	192,197,333.936	17,161.160	74,588,384.340	681,940,295.051
2031	1	0.094797299	74,448,551.563	282,165,033.566	0.000	74,448,551.563	710,896,095.108
2031	2	0.094797299	65,734,418.947	300,562,172.682	0.000	65,734,418.947	627,686,378.883
2031	3	0.094797299	61,412,595.572	245,828,315.571	627,709.329	61,412,595.572	586,418,049.324
2031	4	0.094797299	60,291,199.560	142,806,305.881	3,960,269.951	60,291,199.560	575,710,036.489
2031	5	0.094797299	55,118,176.396	50,420,273.493	20,001,670.129	55,118,176.396	526,313,750.198
2031	6	0.094797299	60,165,422.492	9,178,921.036	95,727,288.313	60,165,422.492	574,509,013.439
2031	7	0.094797299	69,206,109.985	281,432.615	229,920,922.543	69,206,109.985	660,836,944.622
2031	8	0.094797299	68,578,428.499	0.000	252,559,345.281	68,578,428.499	654,843,324.753
2031	9	0.094797299	63,224,574.306	352,829.687	184,475,855.051	63,224,574.306	603,720,314.846

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2031	10	0.094797299	55,682,790.404	16,647,058.059	54,887,421.086	55,682,790.404	531,705,149.827
2031	11	0.094797299	55,365,953.220	81,244,146.206	5,129,448.147	55,365,953.220	528,679,727.407
2031	12	0.094797299	71,592,062.918	190,696,154.916	17,206.971	71,592,062.918	683,619,988.579
2032	1	0.09150158	71,759,503.649	279,820,237.291	0.000	71,759,503.649	712,483,820.803
2032	2	0.09150158	63,363,462.295	298,063,991.872	0.000	63,363,462.295	629,121,432.279
2032	3	0.09150158	59,198,127.596	243,786,050.594	629,162.077	59,198,127.596	587,764,769.667
2032	4	0.09150158	58,120,802.617	141,620,145.451	3,969,452.230	58,120,802.617	577,068,254.528
2032	5	0.09150158	53,136,079.479	50,001,405.970	20,048,069.991	53,136,079.479	527,576,070.129
2032	6	0.09150158	58,014,445.228	9,102,686.110	95,949,816.024	58,014,445.228	576,012,256.163
2032	7	0.09150158	66,745,469.597	279,095.772	230,456,465.507	66,745,469.597	662,700,614.993
2032	8	0.09150158	66,139,756.269	0.000	253,148,869.400	66,139,756.269	656,686,624.869
2032	9	0.09150158	60,965,449.664	349,902.234	184,907,578.938	60,965,449.664	605,312,109.266
2032	10	0.09150158	53,679,148.959	16,509,051.901	55,016,367.996	53,679,148.959	532,968,083.708
2032	11	0.09150158	53,364,956.904	80,571,109.172	5,141,539.487	53,364,956.904	529,848,542.121
2032	12	0.09150158	69,012,348.142	189,126,985.407	17,248.362	69,012,348.142	685,207,937.441
2033	1	0.088806581	69,579,820.391	277,577,733.616	0.000	69,579,820.391	713,918,646.131
2033	2	0.088806581	61,441,981.441	295,675,955.659	0.000	61,441,981.441	630,420,946.176
2033	3	0.088806581	57,404,270.608	241,833,714.905	630,693.536	57,404,270.608	588,992,310.185
2033	4	0.088806581	56,363,344.457	140,487,402.684	3,979,156.648	56,363,344.457	578,311,963.720
2033	5	0.088806581	51,532,242.331	49,601,783.391	20,097,222.278	51,532,242.331	528,742,794.535
2033	6	0.088806581	56,272,584.418	9,029,956.688	96,185,363.699	56,272,584.418	577,380,727.002
2033	7	0.088806581	64,750,287.247	276,865.327	231,022,025.940	64,750,287.247	664,365,575.359
2033	8	0.088806581	64,162,250.782	0.000	253,770,067.053	64,162,250.782	658,332,070.327
2033	9	0.088806581	59,135,254.153	347,102.060	185,359,805.215	59,135,254.153	606,752,939.944
2033	10	0.088806581	52,057,452.370	16,376,727.112	55,150,315.576	52,057,452.370	534,131,673.635
2033	11	0.088806581	51,745,572.627	79,924,545.501	5,154,017.534	51,745,572.627	530,931,654.403
2033	12	0.088806581	66,917,482.455	187,574,648.446	17,287.631	66,917,482.455	686,601,922.910
2034	1	0.086778279	67,953,784.233	275,308,919.555	0.000	67,953,784.233	715,119,875.656
2034	2	0.086778279	60,008,586.637	293,255,559.780	0.000	60,008,586.637	631,507,626.812
2034	3	0.086778279	56,066,392.368	239,850,990.208	632,070.095	56,066,392.368	590,021,468.136
2034	4	0.086778279	55,052,899.300	139,334,025.325	3,987,801.563	55,052,899.300	579,355,851.129
2034	5	0.086778279	50,337,082.612	49,194,351.787	20,140,818.885	50,337,082.612	529,728,383.261
2034	6	0.086778279	54,973,633.598	8,955,766.095	96,393,894.301	54,973,633.598	578,521,688.917

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2034	7	0.086778279	63,261,054.398	274,592.123	231,524,299.899	63,261,054.398	665,735,365.073
2034	8	0.086778279	62,686,165.163	0.000	254,324,203.864	62,686,165.163	659,685,448.607
2034	9	0.086778279	57,770,779.883	344,260.485	185,767,447.908	57,770,779.883	607,957,796.497
2034	10	0.086778279	50,849,951.251	16,242,948.831	55,272,620.225	50,849,951.251	535,125,618.474
2034	11	0.086778279	50,539,970.205	79,273,060.990	5,165,541.818	50,539,970.205	531,863,495.406
2034	12	0.086778279	65,364,550.253	186,121,959.098	17,332.048	65,364,550.253	687,871,758.384
2035	1	0.08489977	66,472,775.800	273,350,447.675	0.000	66,472,775.800	716,483,122.287
2035	2	0.08489977	58,703,550.382	291,176,582.478	0.000	58,703,550.382	632,741,788.814
2035	3	0.08489977	54,849,877.254	238,158,684.640	633,840.268	54,849,877.254	591,204,607.278
2035	4	0.08489977	53,862,475.735	138,355,172.358	3,999,084.878	53,862,475.735	580,561,806.304
2035	5	0.08489977	49,253,329.687	48,850,319.291	20,198,416.547	49,253,329.687	530,881,688.218
2035	6	0.08489977	53,794,796.067	8,893,416.678	96,672,438.835	53,794,796.067	579,832,314.580
2035	7	0.08489977	61,905,830.934	272,688.121	232,199,502.993	61,905,830.934	667,257,873.637
2035	8	0.08489977	61,342,405.835	0.000	255,071,713.850	61,342,405.835	661,184,942.734
2035	9	0.08489977	56,531,043.113	341,888.555	186,316,959.580	56,531,043.113	609,325,213.033
2035	10	0.08489977	49,755,015.822	16,131,273.015	55,436,868.174	49,755,015.822	536,289,159.833
2035	11	0.08489977	49,446,908.375	78,729,414.442	5,180,975.789	49,446,908.375	532,968,194.469
2035	12	0.08489977	63,947,680.474	184,863,802.484	17,385.235	63,947,680.474	689,266,142.682
2036	1	0.08323659	65,182,127.694	271,523,317.851	0.000	65,182,127.694	717,912,511.536
2036	2	0.08323659	57,566,366.231	289,235,612.798	0.000	57,566,366.231	634,032,917.045
2036	3	0.08323659	53,790,173.187	236,574,820.021	635,893.464	53,790,173.187	592,442,126.317
2036	4	0.08323659	52,825,689.966	137,436,224.843	4,012,065.873	52,825,689.966	581,819,359.068
2036	5	0.08323659	48,310,267.430	48,526,104.144	20,264,046.085	48,310,267.430	532,086,733.756
2036	6	0.08323659	52,767,549.816	8,834,415.378	96,986,639.515	52,767,549.816	581,179,006.517
2036	7	0.08323659	60,721,838.211	270,878.294	232,953,138.331	60,721,838.211	668,787,118.761
2036	8	0.08323659	60,167,648.188	0.000	255,898,600.131	60,167,648.188	662,683,299.125
2036	9	0.08323659	55,448,526.840	339,618.474	186,920,240.164	55,448,526.840	610,707,145.858
2036	10	0.08323659	48,800,329.005	16,024,182.043	55,616,271.685	48,800,329.005	537,484,246.060
2036	11	0.08323659	48,493,582.230	78,206,247.169	5,197,694.172	48,493,582.230	534,105,753.277
2036	12	0.08323659	62,700,683.795	183,552,989.377	17,435.023	62,700,683.795	690,582,019.499
2037	1	0.081773725	64,044,901.330	269,592,902.875	0.000	64,044,901.330	719,151,678.191
2037	2	0.081773725	56,563,749.241	287,169,892.332	0.000	56,563,749.241	635,146,816.485
2037	3	0.081773725	52,855,376.274	234,878,203.665	637,461.147	52,855,376.274	593,505,989.703

Indiana Michigan Power Company - Michigan
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Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2037	4	0.081773725	51,910,776.440	136,447,315.061	4,021,863.751	51,910,776.440	582,899,203.807
2037	5	0.081773725	47,477,542.604	48,175,733.454	20,313,042.890	47,477,542.604	533,119,010.746
2037	6	0.081773725	51,860,335.606	8,770,389.113	97,218,594.775	51,860,335.606	582,332,810.393
2037	7	0.081773725	59,676,778.978	268,908.369	233,504,655.906	59,676,778.978	670,102,613.324
2037	8	0.081773725	59,130,678.735	0.000	256,497,103.359	59,130,678.735	663,970,526.330
2037	9	0.081773725	54,492,292.776	337,131.068	187,353,341.733	54,492,292.776	611,886,707.372
2037	10	0.081773725	47,956,241.425	15,906,399.748	55,743,707.797	47,956,241.425	538,494,256.129
2037	11	0.081773725	47,650,547.221	77,629,439.789	5,209,476.397	47,650,547.221	535,061,656.577
2037	12	0.081773725	61,611,111.165	182,267,119.051	17,479.671	61,611,111.165	691,822,972.154
2038	1	0.080475648	63,046,557.328	267,800,261.226	0.000	63,046,557.328	720,377,481.718
2038	2	0.080475648	55,683,741.175	285,253,962.865	0.000	55,683,741.175	636,249,066.401
2038	3	0.080475648	52,035,349.672	233,306,435.360	639,130.229	52,035,349.672	594,562,110.054
2038	4	0.080475648	51,108,564.176	135,532,008.416	4,032,322.559	51,108,564.176	583,972,548.469
2038	5	0.080475648	46,748,088.470	47,851,786.259	20,365,504.078	46,748,088.470	534,149,233.109
2038	6	0.080475648	51,065,028.831	8,711,286.851	97,468,095.125	51,065,028.831	583,475,108.429
2038	7	0.080475648	58,759,046.372	267,091.440	234,099,390.418	58,759,046.372	671,387,870.285
2038	8	0.080475648	58,219,964.600	0.000	257,146,261.383	58,219,964.600	665,228,257.674
2038	9	0.080475648	53,653,631.650	334,842.276	187,824,037.797	53,653,631.650	613,052,792.905
2038	10	0.080475648	47,217,111.017	15,798,165.729	55,882,853.035	47,217,111.017	539,508,340.662
2038	11	0.080475648	46,912,544.358	77,099,972.872	5,222,392.280	46,912,544.358	536,028,325.691
2038	12	0.080475648	60,651,655.880	181,040,020.147	17,524.192	60,651,655.880	693,013,052.195
2039	1	0.079290349	62,137,501.607	266,130,752.959	0.000	62,137,501.607	721,532,923.094
2039	2	0.079290349	54,882,439.835	283,471,794.311	0.000	54,882,439.835	637,288,050.155
2039	3	0.079290349	51,288,877.573	231,847,181.029	640,688.417	51,288,877.573	595,560,053.118
2039	4	0.079290349	50,378,292.902	134,683,097.080	4,042,116.375	50,378,292.902	584,986,457.421
2039	5	0.079290349	46,084,178.884	47,551,812.182	20,414,854.507	46,084,178.884	535,123,740.722
2039	6	0.079290349	50,341,122.803	8,656,665.839	97,704,113.021	50,341,122.803	584,554,842.870
2039	7	0.079290349	57,923,582.851	265,417.879	234,667,161.200	57,923,582.851	672,601,423.779
2039	8	0.079290349	57,391,003.669	0.000	257,770,949.526	57,391,003.669	666,417,180.702
2039	9	0.079290349	52,890,851.387	332,748.116	188,281,630.505	52,890,851.387	614,161,973.361
2039	10	0.079290349	46,545,449.767	15,699,508.561	56,019,505.787	46,545,449.767	540,479,960.715
2039	11	0.079290349	46,242,464.151	76,619,640.841	5,235,238.760	46,242,464.151	536,961,729.505
2039	12	0.079290349	59,781,766.269	179,949,576.625	17,570.254	59,781,766.269	694,178,418.002

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2040	1	0.075714102	59,279,480.322	264,648,550.210	0.000	59,279,480.322	723,658,954.797
2040	2	0.075714102	52,361,828.133	281,899,469.544	0.000	52,361,828.133	639,211,167.367
2040	3	0.075714102	48,935,330.226	230,565,925.556	642,347.021	48,935,330.226	597,381,922.573
2040	4	0.075714102	48,070,701.087	133,941,591.590	4,052,658.372	48,070,701.087	586,826,893.829
2040	5	0.075714102	43,977,880.561	47,290,710.374	20,468,362.619	43,977,880.561	536,863,462.840
2040	6	0.075714102	48,050,539.741	8,609,248.788	97,961,328.095	48,050,539.741	586,580,772.594
2040	7	0.075714102	55,294,949.371	263,967.124	235,287,207.994	55,294,949.371	675,017,477.372
2040	8	0.075714102	54,785,082.730	0.000	258,453,832.509	54,785,082.730	668,793,239.949
2040	9	0.075714102	50,482,049.757	330,935.227	188,781,559.710	50,482,049.757	616,263,623.853
2040	10	0.075714102	44,415,918.717	15,614,053.167	56,168,393.472	44,415,918.717	542,210,848.343
2040	11	0.075714102	44,118,989.182	76,202,798.645	5,249,155.130	44,118,989.182	538,586,057.509
2040	12	0.075714102	57,026,474.075	178,836,439.560	17,606.373	57,026,474.075	696,155,202.451
2041	1	0.072642942	56,835,649.959	262,979,353.399	0.000	56,835,649.959	725,561,763.146
2041	2	0.072642942	50,205,840.061	280,113,398.232	0.000	50,205,840.061	640,925,860.105
2041	3	0.072642942	46,922,052.106	229,099,244.925	643,492.570	46,922,052.106	599,005,146.961
2041	4	0.072642942	46,096,284.801	133,086,448.134	4,059,800.165	46,096,284.801	588,463,432.705
2041	5	0.072642942	42,175,477.564	46,987,813.461	20,504,058.366	42,175,477.564	538,410,555.438
2041	6	0.072642942	46,089,204.447	8,553,919.760	98,130,283.844	46,089,204.447	588,373,045.164
2041	7	0.072642942	53,042,948.242	262,264.644	235,688,227.434	53,042,948.242	677,144,276.109
2041	8	0.072642942	52,552,276.013	0.000	258,889,803.782	52,552,276.013	670,880,372.943
2041	9	0.072642942	48,418,449.469	328,787.796	189,096,870.366	48,418,449.469	618,108,099.239
2041	10	0.072642942	42,591,988.426	15,512,443.279	56,261,305.814	42,591,988.426	543,727,717.379
2041	11	0.072642942	42,300,290.842	75,705,455.685	5,257,751.924	42,300,290.842	540,003,917.025
2041	12	0.072642942	54,679,634.845	177,720,319.700	17,639.248	54,679,634.845	698,038,155.533
2042	1	0.07007082	54,800,494.481	261,448,111.182	0.000	54,800,494.481	727,272,481.457
2042	2	0.07007082	48,410,499.656	278,480,436.945	0.000	48,410,499.656	642,469,097.169
2042	3	0.07007082	45,245,925.376	227,762,456.899	644,701.535	45,245,925.376	600,471,158.801
2042	4	0.07007082	44,452,772.440	132,309,378.319	4,067,414.601	44,452,772.440	589,945,007.361
2042	5	0.07007082	40,675,576.110	46,713,339.516	20,542,474.472	40,675,576.110	539,816,792.752
2042	6	0.07007082	44,456,103.274	8,503,941.821	98,314,053.185	44,456,103.274	589,989,211.785
2042	7	0.07007082	51,166,439.961	260,733.194	236,130,485.198	51,166,439.961	679,043,941.304
2042	8	0.07007082	50,691,830.012	0.000	259,376,224.459	50,691,830.012	672,745,261.734
2042	9	0.07007082	46,700,533.849	326,869.109	189,452,543.606	46,700,533.849	619,775,669.163

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2042	10	0.07007082	41,075,196.362	15,422,002.050	56,367,464.955	41,075,196.362	545,120,263.369
2042	11	0.07007082	40,788,571.797	75,264,500.242	5,267,706.025	40,788,571.797	541,316,389.696
2042	12	0.07007082	52,724,422.069	176,695,678.738	17,673.511	52,724,422.069	699,720,351.703
2043	1	0.068026732	53,194,296.826	260,020,563.854	0.000	53,194,296.826	728,767,371.321
2043	2	0.068026732	46,993,648.277	276,960,560.801	0.000	46,993,648.277	643,817,844.528
2043	3	0.068026732	43,923,654.090	226,521,003.125	645,975.266	43,923,654.090	601,758,606.464
2043	4	0.068026732	43,156,653.573	131,589,380.368	4,075,485.188	43,156,653.573	591,250,620.006
2043	5	0.068026732	39,493,394.613	46,459,541.871	20,583,406.781	39,493,394.613	541,063,593.163
2043	6	0.068026732	43,168,129.553	8,457,775.971	98,510,376.154	43,168,129.553	591,407,842.128
2043	7	0.068026732	49,684,934.997	259,318.444	236,602,751.466	49,684,934.997	680,688,751.105
2043	8	0.068026732	49,222,866.595	0.000	259,895,153.418	49,222,866.595	674,358,366.177
2043	9	0.068026732	45,345,251.440	325,094.991	189,831,504.030	45,345,251.440	621,234,637.280
2043	10	0.068026732	39,879,579.587	15,338,237.136	56,480,054.420	39,879,579.587	546,354,367.279
2043	11	0.068026732	39,597,050.299	74,855,511.240	5,278,217.793	39,597,050.299	542,483,686.792
2043	12	0.068026732	51,180,321.566	175,726,597.100	17,708.075	51,180,321.566	701,175,701.842
2044	1	0.066559947	52,055,888.374	258,721,532.669	0.000	52,055,888.374	730,034,401.002
2044	2	0.066559947	45,989,553.231	275,577,828.601	0.000	45,989,553.231	644,959,811.350
2044	3	0.066559947	42,987,107.705	225,391,089.056	647,305.403	42,987,107.705	602,853,364.031
2044	4	0.066559947	42,239,152.507	130,933,176.663	4,083,888.994	42,239,152.507	592,364,002.661
2044	5	0.066559947	38,657,353.034	46,228,004.756	20,625,937.141	38,657,353.034	542,132,666.413
2044	6	0.066559947	42,256,519.355	8,415,705.559	98,714,861.462	42,256,519.355	592,607,556.209
2044	7	0.066559947	48,634,629.830	258,031.646	237,096,534.355	48,634,629.830	682,054,498.828
2044	8	0.066559947	48,181,435.618	0.000	260,442,345.215	48,181,435.618	675,698,880.360
2044	9	0.066559947	44,386,050.887	323,494.152	190,234,494.286	44,386,050.887	622,472,213.697
2044	10	0.066559947	39,034,840.873	15,262,977.795	56,600,906.252	39,034,840.873	547,426,574.875
2044	11	0.066559947	38,755,523.254	74,489,623.417	5,289,608.520	38,755,523.254	543,509,410.522
2044	12	0.066559947	50,084,765.694	174,827,831.073	17,743.118	50,084,765.694	702,391,277.239
2045	1	0.065408142	51,168,864.716	257,349,578.586	0.000	51,168,864.716	731,132,281.466
2045	2	0.065408142	45,207,415.628	274,116,254.359	0.000	45,207,415.628	645,951,422.047
2045	3	0.065408142	42,257,969.346	224,195,481.457	648,453.909	42,257,969.346	603,807,915.417
2045	4	0.065408142	41,525,222.542	130,239,299.319	4,091,164.787	41,525,222.542	593,337,977.389
2045	5	0.065408142	38,007,323.627	45,983,046.225	20,662,745.740	38,007,323.627	543,072,069.127
2045	6	0.065408142	41,547,263.032	8,371,095.987	98,891,141.286	41,547,263.032	593,652,905.491

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2045	7	0.065408142	47,816,495.106	256,662.282	237,519,256.159	47,816,495.106	683,231,557.962
2045	8	0.065408142	47,369,815.550	0.000	260,904,240.830	47,369,815.550	676,849,125.113
2045	9	0.065408142	43,638,885.382	321,769.926	190,570,665.710	43,638,885.382	623,539,294.988
2045	10	0.065408142	38,376,974.199	15,181,366.178	56,700,173.355	38,376,974.199	548,353,864.359
2045	11	0.065408142	38,099,728.629	74,090,036.234	5,298,814.117	38,099,728.629	544,392,408.751
2045	12	0.065408142	49,231,785.901	173,884,000.752	17,773.518	49,231,785.901	703,454,105.271
2046	1	0.06440195	50,397,971.294	256,032,377.367	0.000	50,397,971.294	732,155,533.008
2046	2	0.06440195	44,527,430.954	272,707,212.966	0.000	44,527,430.954	646,871,374.119
2046	3	0.06440195	41,623,996.472	223,038,912.009	649,530.217	41,623,996.472	604,691,787.001
2046	4	0.06440195	40,904,408.676	129,565,432.540	4,097,906.052	40,904,408.676	594,237,989.504
2046	5	0.06440195	37,442,183.166	45,744,615.208	20,696,628.021	37,442,183.166	543,940,576.762
2046	6	0.06440195	40,930,296.915	8,327,583.840	99,052,350.116	40,930,296.915	594,614,080.377
2046	7	0.06440195	47,104,455.827	255,325.644	237,904,829.668	47,104,455.827	684,309,052.086
2046	8	0.06440195	46,663,444.146	0.000	261,325,847.231	46,663,444.146	677,902,263.600
2046	9	0.06440195	42,988,777.966	320,087.350	190,877,157.747	42,988,777.966	624,518,623.211
2046	10	0.06440195	37,804,912.770	15,101,891.432	56,791,215.754	37,804,912.770	549,210,123.914
2046	11	0.06440195	37,529,534.657	73,701,566.554	5,307,296.377	37,529,534.657	545,209,573.817
2046	12	0.06440195	48,489,865.101	172,972,072.585	17,801.975	48,489,865.101	704,435,557.959
2047	1	0.06353085	49,736,031.542	254,755,864.394	0.000	49,736,031.542	733,128,225.209
2047	2	0.06353085	43,943,832.374	271,347,096.205	0.000	43,943,832.374	647,748,982.745
2047	3	0.06353085	41,080,274.415	221,926,094.472	650,599.139	41,080,274.415	605,539,037.583
2047	4	0.06353085	40,372,346.056	128,918,869.224	4,104,650.380	40,372,346.056	595,103,901.418
2047	5	0.06353085	36,958,292.942	45,516,240.999	20,730,666.356	36,958,292.942	544,779,446.038
2047	6	0.06353085	40,401,754.186	8,285,978.748	99,214,980.665	40,401,754.186	595,537,388.562
2047	7	0.06353085	46,493,634.100	254,048.713	238,294,426.816	46,493,634.100	685,334,040.431
2047	8	0.06353085	46,057,406.373	0.000	261,752,169.678	46,057,406.373	678,903,876.019
2047	9	0.06353085	42,431,725.311	318,482.002	191,187,402.435	42,431,725.311	625,459,943.327
2047	10	0.06353085	37,315,193.072	15,025,969.467	56,882,902.140	37,315,193.072	550,040,291.158
2047	11	0.06353085	37,041,382.661	73,330,185.199	5,315,808.444	37,041,382.661	546,004,220.431
2047	12	0.06353085	47,853,575.500	172,098,379.976	17,830.350	47,853,575.500	705,380,099.471
2048	1	0.062749056	49,145,523.535	253,506,125.269	0.000	49,145,523.535	734,061,851.622
2048	2	0.062749056	43,423,018.779	270,010,426.446	0.000	43,423,018.779	648,587,689.682
2048	3	0.062749056	40,594,999.634	220,828,276.296	651,543.941	40,594,999.634	606,346,996.722

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2048	4	0.062749056	39,897,468.736	128,278,229.324	4,110,531.233	39,897,468.736	595,928,330.161
2048	5	0.062749056	36,526,420.263	45,288,882.972	20,759,892.801	36,526,420.263	545,576,682.529
2048	6	0.062749056	39,929,647.900	8,244,357.892	99,352,334.633	39,929,647.900	596,408,974.076
2048	7	0.062749056	45,947,595.690	252,765.697	238,618,374.133	45,947,595.690	686,296,019.330
2048	8	0.062749056	45,515,446.737	0.000	262,100,643.017	45,515,446.737	679,841,228.776
2048	9	0.062749056	41,933,468.163	316,853.159	191,435,942.533	41,933,468.163	626,339,024.807
2048	10	0.062749056	36,877,133.819	14,948,628.919	56,955,133.111	36,877,133.819	550,815,113.702
2048	11	0.062749056	36,604,540.968	72,950,311.480	5,322,396.400	36,604,540.968	546,743,532.030
2048	12	0.062749056	47,283,460.496	171,200,280.968	17,851.815	47,283,460.496	706,249,156.912
2049	1	0.062029137	48,603,781.351	252,266,246.262	0.000	48,603,781.351	734,959,933.654
2049	2	0.062029137	42,945,207.458	268,683,955.232	0.000	42,945,207.458	649,394,058.369
2049	3	0.062029137	40,149,852.874	219,738,577.329	652,314.092	40,149,852.874	607,124,227.462
2049	4	0.062029137	39,461,923.029	127,642,188.363	4,115,306.647	39,461,923.029	596,721,726.680
2049	5	0.062029137	36,130,416.165	45,063,110.860	20,783,519.061	36,130,416.165	546,344,492.738
2049	6	0.062029137	39,496,596.233	8,203,019.639	99,462,810.189	39,496,596.233	597,246,036.001
2049	7	0.062029137	45,446,468.359	251,491.179	238,877,597.617	45,446,468.359	687,216,764.654
2049	8	0.062029137	45,018,018.088	0.000	262,377,842.874	45,018,018.088	680,737,972.793
2049	9	0.062029137	41,476,304.981	315,234.563	191,632,272.282	41,476,304.981	627,182,114.421
2049	10	0.062029137	36,475,331.762	14,871,762.624	57,011,788.940	36,475,331.762	551,560,118.710
2049	11	0.062029137	36,203,832.170	72,572,706.763	5,327,524.899	36,203,832.170	547,454,649.619
2049	12	0.062029137	46,760,118.661	170,307,248.315	17,868.358	46,760,118.661	707,081,069.694
2050	1	0.06138657	48,124,859.771	251,067,688.287	0.000	48,124,859.771	735,839,120.534
2050	2	0.06138657	42,522,815.809	267,401,243.435	0.000	42,522,815.809	650,182,702.599
2050	3	0.06138657	39,756,496.820	218,684,462.762	653,147.536	39,756,496.820	607,885,109.594
2050	4	0.06138657	39,077,191.167	127,026,700.970	4,120,477.763	39,077,191.167	597,498,384.784
2050	5	0.06138657	35,780,877.037	44,844,554.084	20,809,125.237	35,780,877.037	547,097,055.792
2050	6	0.06138657	39,114,043.250	8,162,987.626	99,582,672.917	39,114,043.250	598,061,860.804
2050	7	0.06138657	45,003,121.072	250,256.495	239,159,161.631	45,003,121.072	688,107,086.202
2050	8	0.06138657	44,577,818.284	0.000	262,679,350.921	44,577,818.284	681,604,118.079
2050	9	0.06138657	41,072,131.310	313,665.315	191,846,153.951	41,072,131.310	628,001,434.720
2050	10	0.06138657	36,120,433.088	14,797,209.819	57,073,608.521	36,120,433.088	552,288,938.475
2050	11	0.06138657	35,849,870.090	72,206,317.267	5,333,130.308	35,849,870.090	548,151,973.921
2050	12	0.06138657	46,297,156.813	169,442,201.986	17,886.623	46,297,156.813	707,893,161.968

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2051	1	0.060608505	47,532,544.862	250,785,227.295	0.000	47,532,544.862	736,722,818.570
2051	2	0.060608505	42,000,435.696	267,097,655.914	0.000	42,000,435.696	650,978,807.412
2051	3	0.060608505	39,269,656.137	218,434,008.631	654,642.051	39,269,656.137	608,653,541.225
2051	4	0.060608505	38,600,703.068	126,879,784.616	4,129,860.444	38,600,703.068	598,285,213.766
2051	5	0.060608505	35,347,291.790	44,792,044.221	20,856,210.447	35,347,291.790	547,859,503.671
2051	6	0.060608505	38,640,341.135	8,153,293.021	99,806,310.884	38,640,341.135	598,899,577.431
2051	7	0.060608505	44,455,946.415	249,955.188	239,692,235.913	44,455,946.415	689,037,589.728
2051	8	0.060608505	44,034,983.658	0.000	263,259,614.412	44,034,983.658	682,512,947.097
2051	9	0.060608505	40,572,893.109	313,274.731	192,265,658.436	40,572,893.109	628,852,847.153
2051	10	0.060608505	35,681,429.129	14,778,475.120	57,197,195.545	35,681,429.129	553,038,410.113
2051	11	0.060608505	35,412,323.481	72,113,368.608	5,344,564.009	35,412,323.481	548,867,451.616
2051	12	0.060608505	45,726,872.442	169,219,013.479	17,924.446	45,726,872.442	708,736,097.514
2052	1	0.05983869	46,946,497.572	250,502,379.569	0.000	46,946,497.572	737,604,390.157
2052	2	0.05983869	41,483,511.189	266,792,417.915	0.000	41,483,511.189	651,772,156.710
2052	3	0.05983869	38,787,826.750	218,181,177.438	656,120.815	38,787,826.750	609,418,652.627
2052	4	0.05983869	38,129,031.982	126,730,883.344	4,139,129.111	38,129,031.982	599,067,935.568
2052	5	0.05983869	34,917,990.166	44,738,619.345	20,902,645.486	34,917,990.166	548,617,344.728
2052	6	0.05983869	38,171,251.800	8,143,393.668	100,026,487.815	38,171,251.800	599,731,276.279
2052	7	0.05983869	43,914,094.419	249,646.481	240,216,192.248	43,914,094.419	689,960,497.780
2052	8	0.05983869	43,497,407.492	0.000	263,828,976.536	43,497,407.492	683,413,681.242
2052	9	0.05983869	40,078,419.682	312,871.900	192,676,474.098	40,078,419.682	629,695,927.001
2052	10	0.05983869	35,246,559.374	14,759,091.628	57,317,990.136	35,246,559.374	553,779,691.290
2052	11	0.05983869	34,978,888.873	72,016,904.401	5,355,717.208	34,978,888.873	549,574,160.590
2052	12	0.05983869	45,162,068.934	168,987,318.439	17,961.306	45,162,068.934	709,568,168.814
2053	1	0.059077186	46,366,137.194	250,206,908.338	0.000	46,366,137.194	738,473,844.296
2053	2	0.059077186	40,971,575.146	266,473,627.723	0.000	40,971,575.146	652,554,610.667
2053	3	0.059077186	38,310,600.358	217,917,177.767	657,568.428	38,310,600.358	610,173,243.579
2053	4	0.059077186	37,661,816.927	126,575,440.078	4,148,199.659	37,661,816.927	599,840,064.581
2053	5	0.059077186	34,492,662.994	44,682,863.096	20,948,070.833	34,492,662.994	549,364,924.119
2053	6	0.059077186	37,706,508.422	8,133,065.867	100,241,786.895	37,706,508.422	600,551,866.391
2053	7	0.059077186	43,377,358.329	249,324.521	240,728,329.798	43,377,358.329	690,871,538.990
2053	8	0.059077186	42,964,933.601	0.000	264,385,247.068	42,964,933.601	684,302,846.994
2053	9	0.059077186	39,588,583.853	312,452.177	193,077,636.385	39,588,583.853	630,527,697.088

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Lighting Share	Lighting Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2053	10	0.059077186	34,815,734.321	14,738,905.686	57,435,890.244	34,815,734.321	554,510,483.773
2053	11	0.059077186	34,549,516.522	71,916,496.691	5,366,597.765	34,549,516.522	550,270,430.722
2053	12	0.059077186	44,602,717.378	168,746,516.844	17,997.260	44,602,717.378	710,387,842.532
2054	1	0.058324011	45,791,435.901	249,900,055.757	0.000	45,791,435.901	739,330,073.688
2054	2	0.058324011	40,464,620.937	266,143,050.507	0.000	40,464,620.937	653,325,465.564
2054	3	0.058324011	37,837,989.229	217,643,853.181	658,990.590	37,837,989.229	610,916,928.336
2054	4	0.058324011	37,199,092.691	126,414,792.696	4,157,114.497	37,199,092.691	600,601,562.264
2054	5	0.058324011	34,071,367.540	44,625,350.894	20,992,736.493	34,071,367.540	550,102,572.208
2054	6	0.058324011	37,246,195.200	8,122,433.227	100,453,577.458	37,246,195.200	601,362,060.397
2054	7	0.058324011	42,845,845.332	248,993.643	241,232,327.385	42,845,845.332	691,771,755.209
2054	8	0.058324011	42,437,684.387	0.000	264,932,871.676	42,437,684.387	685,181,753.037
2054	9	0.058324011	39,103,531.072	312,022.315	193,472,698.479	39,103,531.072	631,349,857.018
2054	10	0.058324011	34,389,113.442	14,718,265.223	57,552,036.706	34,389,113.442	555,232,769.507
2054	11	0.058324011	34,124,385.249	71,813,986.334	5,377,320.102	34,124,385.249	550,958,574.762
2054	12	0.058324011	44,049,048.659	168,501,361.316	18,032.726	44,049,048.659	711,198,191.329

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
1996	1	1,166,816,453.447	1,188,141,278.869	307,638,802.007	0.000	197,790,976.03	682,711,500.832
1996	2	1,016,587,510.733	1,045,622,705.878	320,803,908.799	0.000	160,176,091.06	564,642,706.022
1996	3	929,357,915.192	932,738,921.907	246,610,878.429	0.000	157,174,948.11	528,953,095.368
1996	4	837,179,935.617	882,479,178.828	178,526,803.525	524,536.158	151,507,545.76	551,920,293.384
1996	5	711,388,298.063	744,641,964.815	67,053,983.033	15,403,305.755	144,785,979.91	517,398,696.119
1996	6	749,467,590.074	752,946,688.373	12,749,856.735	69,492,799.357	153,601,610.45	517,102,421.832
1996	7	877,347,307.398	860,641,248.620	32,594.730	193,312,188.566	157,463,973.40	509,832,491.928
1996	8	859,306,911.920	822,178,060.883	0.000	180,670,326.030	156,228,682.70	485,279,052.150
1996	9	892,963,727.961	875,456,120.490	546,079.733	201,995,053.043	158,941,935.63	513,973,052.079
1996	10	682,598,992.240	711,054,698.181	18,702,214.018	28,906,976.713	146,180,772.28	517,264,735.176
1996	11	752,669,729.049	759,452,983.050	100,878,894.742	0.000	150,048,531.95	508,525,556.356
1996	12	1,019,190,836.880	1,021,128,006.130	228,000,065.779	0.000	182,139,740.92	610,988,199.426
1997	1	1,154,317,472.767	1,162,300,474.045	290,575,891.061	0.000	201,742,905.52	669,981,677.461
1997	2	1,035,216,344.569	1,018,202,909.926	335,905,634.241	0.000	163,337,018.33	518,960,257.353
1997	3	920,686,602.390	937,915,191.364	234,828,224.840	0.000	160,194,975.90	542,891,990.625
1997	4	817,221,547.072	857,698,734.053	155,232,515.852	0.000	154,619,846.27	547,846,371.928
1997	5	726,986,724.652	729,539,080.651	94,413,314.906	0.000	147,749,280.97	487,376,484.778
1997	6	705,843,101.375	712,494,594.806	21,922,886.986	22,275,122.317	154,539,512.89	513,757,072.613
1997	7	925,021,547.165	885,665,422.971	0.000	238,327,374.215	160,390,191.45	486,947,857.301
1997	8	940,216,951.107	882,991,832.871	0.000	258,653,443.111	159,191,829.26	465,146,560.498
1997	9	792,506,753.190	771,474,885.488	165,198.861	100,600,341.756	161,569,021.40	509,140,323.476
1997	10	703,331,263.755	690,819,552.467	13,488,693.665	53,896,710.730	148,536,979.28	474,897,168.795
1997	11	788,374,153.535	797,290,585.128	123,028,211.108	12,018,050.600	152,596,876.14	509,647,447.285
1997	12	1,006,350,573.587	1,126,751,637.099	211,408,035.723	0.000	185,673,609.69	729,669,991.688
1998	1	1,085,522,311.966	1,227,584,912.589	239,424,326.508	0.000	200,141,154.47	788,019,431.609
1998	2	780,444,588.965	780,444,588.965	239,005,161.673	0.000	128,075,369.42	413,364,057.869
1998	3	864,004,353.839	900,640,409.595	196,640,224.573	0.000	157,862,362.97	546,137,822.056
1998	4	783,195,035.631	775,187,854.424	130,665,827.688	10,066,323.205	151,972,071.40	482,483,632.132
1998	5	662,081,624.298	689,668,136.736	30,061,026.060	19,496,974.439	144,890,056.84	495,220,079.392
1998	6	749,599,983.547	762,193,670.357	3,529,477.075	103,716,778.428	151,946,250.81	503,001,164.041
1998	7	969,169,512.926	976,782,601.102	1,398,795.762	299,729,004.199	158,022,642.73	517,632,158.413
1998	8	964,337,556.154	940,297,351.848	0.000	301,163,316.995	156,871,260.92	482,262,773.932
1998	9	929,113,867.672	906,739,938.171	66,850.090	254,151,360.526	159,643,916.28	492,877,811.279

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
1998	10	738,687,663.763	743,409,113.811	10,693,526.318	108,454,043.787	146,549,775.22	477,711,768.482
1998	11	711,566,619.296	734,852,128.744	69,440,599.764	5,544,770.412	150,580,793.60	509,285,964.967
1998	12	890,975,371.247	923,659,731.278	114,830,481.866	0.000	183,594,024.41	625,235,224.998
1999	1	1,173,141,213.270	1,094,302,000.850	321,751,002.610	0.000	202,705,038.95	569,845,959.294
1999	2	961,124,418.989	1,026,491,856.552	273,898,114.231	0.000	163,619,728.21	588,974,014.108
1999	3	922,511,263.199	912,777,919.929	249,794,390.549	0.000	160,165,219.38	502,818,309.998
1999	4	794,693,301.326	807,659,972.839	146,323,763.051	0.000	154,368,432.78	506,967,777.004
1999	5	674,744,316.862	660,642,385.826	34,357,279.454	21,612,441.346	147,322,258.38	457,350,406.650
1999	6	822,559,164.301	775,039,482.661	2,427,833.328	172,567,713.395	154,176,553.45	445,867,382.487
1999	7	1,018,486,529.806	1,005,011,341.266	0.000	345,969,104.572	160,117,733.52	498,924,503.171
1999	8	1,100,964,975.264	1,056,309,172.577	0.000	433,219,981.980	158,981,478.97	464,107,711.629
1999	9	877,410,020.768	844,576,789.090	213,004.247	198,462,085.702	161,598,041.49	484,303,657.652
1999	10	698,564,948.327	716,402,429.422	17,434,387.379	56,590,708.738	148,694,891.58	493,682,441.725
1999	11	706,228,382.009	713,182,197.617	60,347,336.993	4,412,924.756	152,725,294.08	495,696,641.787
1999	12	947,852,105.338	941,111,450.897	147,252,494.625	265,539.616	190,549,229.98	603,044,186.678
2000	1	1,120,775,773.204	1,126,734,758.724	260,622,792.451	0.000	206,333,229.20	659,778,737.071
2000	2	1,014,964,676.662	964,954,727.234	320,433,819.448	0.000	166,603,845.78	477,917,062.011
2000	3	844,587,959.346	871,380,711.485	159,858,588.479	3,432,351.181	163,429,316.95	544,660,454.876
2000	4	773,483,314.176	772,643,673.755	114,712,654.034	2,095,178.923	157,523,109.97	498,312,730.829
2000	5	726,238,599.115	725,376,208.592	52,729,539.826	46,996,642.136	150,287,603.55	475,362,423.077
2000	6	767,212,554.524	773,909,192.643	6,433,275.230	105,772,187.922	157,122,897.13	504,580,832.359
2000	7	895,935,488.039	883,862,133.196	629,047.565	215,589,396.668	163,050,312.83	504,593,376.135
2000	8	895,621,604.840	874,349,559.804	0.000	221,228,233.190	161,773,272.01	491,348,054.605
2000	9	947,633,686.286	901,455,208.055	977,968.026	259,762,937.326	164,771,626.42	475,942,676.287
2000	10	719,301,678.586	748,924,075.170	22,700,222.214	64,825,457.550	151,550,229.88	509,848,165.522
2000	11	714,320,957.767	716,449,212.001	61,292,268.011	4,407,813.050	155,590,973.95	495,158,156.993
2000	12	1,057,744,376.696	1,015,709,984.832	266,508,142.710	0.000	189,801,501.45	559,400,340.677
2001	1	1,256,207,382.259	1,221,091,798.567	389,901,761.486	0.000	209,119,172.97	622,070,864.113
2001	2	1,011,965,155.170	1,059,764,366.995	311,994,812.395	0.000	168,967,181.64	578,802,372.958
2001	3	943,792,182.639	936,781,624.615	257,415,548.605	0.000	165,685,770.25	513,680,305.756
2001	4	829,558,815.835	816,854,862.700	163,614,712.108	4,409,983.636	159,688,988.23	489,141,178.721
2001	5	718,034,847.092	723,295,919.360	29,602,098.603	53,634,949.019	153,235,056.59	486,823,815.144
2001	6	758,933,624.522	833,445,931.284	9,969,446.460	89,491,445.029	159,191,386.06	574,793,653.730

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2001	7	935,690,986.424	908,946,040.631	1,130,386.316	250,297,738.368	165,175,522.71	492,342,393.235
2001	8	1,095,241,371.040	1,039,984,747.551	0.000	416,364,307.460	163,875,434.58	459,745,005.511
2001	9	928,010,509.891	905,255,319.756	342,963.302	235,967,160.237	166,970,881.02	501,974,315.194
2001	10	690,175,341.319	713,824,934.595	19,014,240.840	34,541,964.029	153,674,712.62	506,594,017.111
2001	11	716,332,020.022	724,584,451.880	60,874,964.955	1,827,752.645	157,780,829.16	504,100,905.122
2001	12	897,549,549.035	911,744,702.685	100,790,774.172	0.000	192,331,126.64	618,622,801.877
2002	1	1,158,895,283.882	1,108,909,913.581	268,528,694.525	0.000	216,917,604.41	623,463,614.648
2002	2	954,074,663.294	940,755,221.055	230,639,498.756	0.000	176,248,552.80	533,867,169.498
2002	3	942,839,309.662	944,386,353.722	232,326,630.869	0.000	173,100,282.54	538,959,440.309
2002	4	886,948,338.473	881,179,152.375	182,102,604.418	16,896,720.642	167,603,157.76	514,576,669.550
2002	5	756,793,535.626	759,958,630.217	66,573,389.777	36,012,365.455	159,382,872.41	497,990,002.577
2002	6	797,162,401.136	800,552,041.811	25,302,601.504	88,852,727.086	166,399,166.08	519,997,547.147
2002	7	1,120,679,230.523	1,059,920,197.306	0.000	412,768,307.721	172,466,423.77	474,685,465.818
2002	8	1,148,047,983.186	1,104,253,201.766	0.000	445,661,213.462	171,120,589.29	487,471,399.012
2002	9	1,009,714,999.380	968,766,191.465	0.000	294,594,574.538	174,222,855.25	499,948,761.674
2002	10	801,793,441.857	760,458,812.640	16,545,534.378	125,259,089.999	160,791,290.84	457,862,897.423
2002	11	805,464,989.536	801,944,236.619	120,458,974.156	7,791,352.748	164,987,976.91	508,705,932.803
2002	12	1,059,607,178.801	1,043,881,978.559	238,967,780.089	0.000	199,930,157.51	604,984,040.960
2003	1	1,189,754,276.666	1,186,250,594.818	297,148,215.302	0.000	216,089,257.55	673,013,121.970
2003	2	1,089,440,419.154	1,068,111,870.704	369,395,307.875	0.000	174,314,314.27	524,402,248.564
2003	3	1,030,010,230.629	986,307,683.629	317,697,454.414	0.000	172,442,408.38	496,167,820.838
2003	4	825,204,915.719	827,112,182.263	132,506,915.330	5,348,974.254	166,398,982.89	522,857,309.789
2003	5	721,829,697.382	722,545,003.997	52,324,585.562	12,945,562.046	158,945,218.71	498,329,637.679
2003	6	723,622,367.589	764,532,039.877	13,738,284.240	24,179,059.028	166,000,989.70	560,613,706.906
2003	7	948,660,673.098	937,577,302.322	720,358.587	234,846,639.018	172,631,454.76	529,378,849.960
2003	8	961,474,483.783	962,816,384.101	0.000	252,900,470.585	171,537,298.54	538,378,614.975
2003	9	983,251,058.890	945,599,179.387	47,345.623	268,122,217.499	173,112,682.28	504,316,933.981
2003	10	737,940,878.118	742,915,779.975	31,511,324.107	44,122,889.725	160,336,526.43	506,945,039.709
2003	11	756,235,333.248	740,980,400.083	79,939,189.448	1,311,021.858	163,405,829.48	496,324,359.298
2003	12	1,010,452,777.502	1,014,554,340.890	182,518,174.253	0.000	200,433,070.60	631,603,096.040
2004	1	1,176,574,556.054	1,174,563,971.187	276,258,153.995	0.000	216,502,745.82	681,803,071.376
2004	2	1,124,275,316.892	1,098,678,660.084	392,633,707.825	0.000	175,940,832.53	530,104,119.732
2004	3	958,206,520.311	936,696,806.273	250,919,454.016	0.000	170,084,196.60	515,693,155.654

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2004	4	837,500,547.636	820,473,937.772	134,702,062.750	7,859,279.135	167,114,856.37	510,797,739.515
2004	5	791,575,046.078	751,130,986.377	47,613,616.672	72,120,676.506	161,560,277.50	469,836,415.699
2004	6	832,841,036.759	794,835,791.185	5,349,206.224	134,792,084.957	166,576,324.28	488,118,175.724
2004	7	911,995,196.080	889,785,125.976	48,479.885	201,832,700.609	170,764,004.59	517,139,940.889
2004	8	912,850,465.110	889,347,654.975	0.000	202,238,471.576	170,883,755.38	516,225,428.023
2004	9	892,486,322.275	883,562,008.848	0.000	169,207,046.688	173,929,908.19	540,425,053.965
2004	10	743,865,715.239	756,265,281.424	19,013,169.385	59,940,709.879	159,894,052.67	517,417,349.485
2004	11	750,414,589.992	739,342,350.894	66,663,327.944	3,573,118.759	163,565,203.67	505,540,700.526
2004	12	1,018,197,830.541	1,012,149,854.943	183,256,435.795	257,684.386	200,719,785.59	627,915,949.176
2005	1	1,213,039,572.232	1,205,164,592.518	313,667,490.674	0.000	214,874,594.84	676,622,507.007
2005	2	1,074,122,056.759	1,059,188,243.796	343,178,036.896	0.000	174,634,395.86	541,375,811.040
2005	3	1,022,499,265.950	1,063,236,724.419	285,373,655.818	0.000	176,111,278.16	601,751,790.445
2005	4	862,565,649.761	833,305,825.692	164,037,263.784	2,628,920.611	166,261,682.72	500,377,958.581
2005	5	728,007,005.772	708,643,783.407	58,735,158.296	16,335,273.723	155,997,150.25	477,576,201.136
2005	6	811,132,897.217	836,340,538.934	8,588,354.058	112,763,537.062	164,799,883.44	550,188,764.372
2005	7	1,068,980,961.412	1,089,766,745.366	0.000	359,743,677.547	169,448,304.14	560,574,763.676
2005	8	1,089,317,719.894	1,136,481,652.779	0.000	382,077,988.741	168,971,056.36	585,432,607.675
2005	9	982,904,390.435	1,025,977,317.252	0.000	252,151,071.039	174,588,834.42	599,237,411.791
2005	10	803,192,885.164	775,294,503.540	11,623,356.401	120,932,385.620	160,226,103.71	482,512,657.806
2005	11	778,487,844.149	760,631,932.711	76,819,422.952	10,104,740.667	165,225,793.31	508,481,975.780
2005	12	1,080,945,111.110	1,054,317,442.258	262,092,255.067	0.000	195,637,244.34	596,587,942.850
2006	1	1,235,213,271.024	1,196,487,149.166	284,097,143.063	0.000	220,247,868.81	692,142,137.289
2006	2	1,025,825,278.256	1,003,937,408.889	239,379,991.453	0.000	182,115,404.49	582,442,012.950
2006	3	992,688,619.278	959,229,583.007	267,594,295.550	0.000	167,908,496.97	523,726,790.487
2006	4	859,878,021.851	810,137,860.900	154,795,145.061	1,447,092.380	162,939,390.24	490,956,233.219
2006	5	719,426,144.576	707,508,596.650	36,772,722.742	2,603,436.969	157,477,678.54	510,654,758.400
2006	6	829,506,071.951	831,644,879.067	19,038,673.183	101,479,148.199	164,178,849.05	546,948,208.635
2006	7	958,517,753.668	994,762,697.144	0.000	216,301,419.861	171,873,403.17	606,587,874.116
2006	8	1,079,526,407.569	1,116,796,352.920	0.000	354,365,120.414	167,924,003.54	594,507,228.962
2006	9	887,622,766.003	904,939,991.143	770,068.529	151,229,267.352	170,346,698.97	582,593,956.293
2006	10	734,902,461.035	749,352,735.911	27,054,632.436	17,198,583.361	159,932,125.94	545,167,394.173
2006	11	834,448,707.011	814,506,559.236	123,614,476.136	663,005.282	164,452,787.97	525,776,289.845
2006	12	1,016,885,826.593	1,017,636,584.692	180,538,919.616	0.000	193,671,012.86	643,426,652.215

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2007	1	1,164,678,465.690	1,139,730,073.763	211,069,412.849	0.000	213,915,536.35	714,745,124.565
2007	2	1,148,302,677.962	1,138,443,929.658	370,256,228.029	0.000	174,532,973.60	593,654,728.031
2007	3	1,058,826,456.109	1,026,768,486.093	333,084,564.282	398,688.156	162,710,473.43	530,574,760.229
2007	4	864,723,421.227	866,172,436.268	133,571,203.955	10,539,375.859	161,649,348.87	560,412,507.581
2007	5	752,205,229.748	724,550,568.511	51,739,258.650	25,763,241.075	151,350,698.63	495,697,370.154
2007	6	872,051,357.376	859,662,901.139	3,198,088.974	164,397,811.319	158,024,891.32	534,042,109.527
2007	7	1,012,589,875.978	1,004,454,660.643	0.000	279,053,956.491	164,548,280.22	560,852,423.931
2007	8	1,015,540,145.802	1,014,547,769.474	0.000	296,167,140.800	161,371,226.23	557,009,402.445
2007	9	1,003,847,256.610	1,024,137,204.838	667,620.932	254,632,044.904	167,915,729.08	600,921,809.924
2007	10	815,740,228.359	766,541,329.517	6,853,924.734	135,342,836.438	151,090,650.42	473,253,917.928
2007	11	815,253,782.132	789,927,004.618	74,157,101.487	27,526,357.671	160,069,556.71	528,173,988.751
2007	12	1,082,630,694.216	1,079,815,227.756	234,024,712.773	0.000	190,361,032.26	655,429,482.725
2008	1	1,248,190,190.114	1,236,344,007.395	294,014,714.639	0.000	207,542,998.94	734,786,293.815
2008	2	1,140,670,513.907	1,159,432,869.228	361,631,257.990	0.000	169,449,066.36	628,352,544.875
2008	3	1,055,734,431.812	1,052,860,215.742	330,732,600.501	0.000	157,695,369.64	564,432,245.599
2008	4	894,891,427.958	898,644,054.131	184,293,652.096	259,900.405	154,505,808.13	559,584,693.502
2008	5	738,957,164.490	718,605,891.194	55,414,952.038	6,642,639.491	147,232,632.74	509,315,666.921
2008	6	824,306,065.155	798,943,040.991	16,182,057.937	106,818,941.319	152,541,078.96	523,400,962.772
2008	7	956,345,136.675	935,203,630.103	6,189.304	220,793,383.218	159,988,740.19	554,415,317.391
2008	8	1,009,875,724.214	1,038,440,376.128	0.000	276,502,636.063	159,516,204.27	602,421,535.793
2008	9	907,473,328.296	907,739,835.761	0.000	176,536,360.899	158,986,322.90	572,217,151.958
2008	10	748,270,587.738	746,127,998.389	12,312,269.451	54,195,197.445	148,290,504.53	531,330,026.965
2008	11	811,862,572.293	804,556,451.539	94,405,607.441	5,918,008.592	154,767,055.58	549,465,779.927
2008	12	1,107,488,965.557	1,103,181,096.311	275,018,102.035	0.000	181,070,991.64	647,092,002.633
2009	1	1,309,312,778.412	1,345,799,588.628	363,067,654.154	0.000	200,480,560.69	782,251,373.788
2009	2	1,194,104,294.033	1,225,423,049.753	414,492,623.469	0.000	165,176,000.20	645,754,426.086
2009	3	986,354,544.877	1,013,213,707.227	265,650,796.260	0.000	152,695,203.29	594,867,707.677
2009	4	856,163,452.757	879,818,293.173	145,154,023.349	508,400.735	150,533,557.26	583,622,311.828
2009	5	750,717,822.603	745,954,507.600	56,120,576.156	15,923,326.539	143,790,360.97	530,120,243.932
2009	6	771,146,064.847	749,217,553.757	8,504,158.111	65,653,058.221	147,670,737.28	527,389,600.150
2009	7	919,289,840.445	893,196,804.322	6,086.166	194,546,205.668	153,549,842.82	545,094,669.672
2009	8	906,198,245.632	901,807,986.079	0.000	189,891,796.071	151,763,549.37	560,152,640.639
2009	9	867,006,935.503	877,253,929.003	0.000	131,852,091.913	155,756,950.77	589,644,886.322

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2009	10	746,072,800.931	769,451,286.420	35,267,628.667	29,836,764.724	144,276,493.11	560,070,399.916
2009	11	790,938,181.445	811,343,351.690	83,400,318.836	0.000	149,905,752.50	578,037,280.353
2009	12	1,031,345,207.892	1,048,682,883.558	193,875,348.555	0.000	177,434,390.58	677,373,144.428
2010	1	1,277,713,582.724	1,286,371,326.551	343,191,750.803	0.000	173,385,282.68	769,794,293.065
2010	2	1,126,617,497.174	1,165,645,621.957	349,331,777.910	0.000	144,212,686.70	672,101,157.348
2010	3	979,168,940.765	987,035,416.480	265,581,857.171	0.000	132,394,443.86	589,059,115.453
2010	4	820,531,801.871	805,988,821.194	100,129,425.364	14,144,488.887	131,034,631.09	560,680,275.852
2010	5	720,619,301.136	710,018,857.902	37,240,720.412	14,949,209.095	124,016,166.98	533,812,761.415
2010	6	853,699,463.779	845,593,019.960	7,985,931.218	148,850,279.820	129,291,609.83	559,465,199.094
2010	7	1,027,011,271.774	1,086,446,676.914	0.000	299,518,399.054	134,974,436.21	651,953,841.653
2010	8	1,113,171,040.576	1,195,390,336.342	0.000	390,766,073.134	134,030,458.37	670,593,804.835
2010	9	987,045,609.796	1,001,892,176.429	0.000	260,270,917.536	134,841,189.54	606,780,069.356
2010	10	748,726,510.524	728,331,286.996	14,390,933.854	60,576,816.547	125,004,948.09	528,358,588.509
2010	11	777,415,678.561	750,701,170.857	76,277,473.062	5,878,155.563	128,994,161.70	539,551,380.535
2010	12	1,064,631,755.348	1,083,550,540.938	232,428,982.540	0.000	154,401,650.22	696,719,908.180
2011	1	1,257,289,232.332	1,296,404,037.911	342,457,515.695	0.000	161,088,592.37	792,857,929.842
2011	2	1,119,579,359.467	1,140,422,579.289	378,729,189.558	0.000	130,452,966.22	631,240,423.507
2011	3	948,198,018.809	966,631,797.597	263,669,402.790	0.000	120,535,557.73	582,426,837.075
2011	4	841,722,386.702	862,388,665.488	166,751,685.297	3,974,427.210	118,152,708.67	573,509,844.310
2011	5	734,985,877.570	777,410,500.275	59,484,469.656	19,947,769.339	115,433,484.59	582,544,776.691
2011	6	833,302,845.078	845,086,938.592	7,848,713.337	147,821,011.010	119,321,361.05	570,095,853.190
2011	7	999,746,232.847	1,035,939,351.393	0.000	280,174,659.712	126,706,114.05	629,058,577.626
2011	8	1,112,908,851.385	1,148,836,785.380	0.000	413,225,290.691	123,204,123.61	612,407,371.079
2011	9	919,579,672.371	929,914,042.850	1,358,931.145	210,832,175.177	124,560,863.27	593,162,073.263
2011	10	706,506,251.902	713,684,429.994	15,778,406.331	33,987,095.925	115,642,517.63	548,276,410.112
2011	11	757,462,511.422	787,386,590.232	70,312,261.659	5,629,646.721	120,005,890.29	591,438,791.564
2011	12	963,387,256.543	991,700,074.341	162,509,516.705	0.000	141,022,950.37	688,167,607.263
2012	1	1,147,372,229.345	1,120,010,835.984	241,705,183.520	0.000	155,653,278.39	722,652,374.076
2012	2	1,013,329,538.471	1,024,449,415.041	272,468,762.753	0.000	127,328,701.10	624,651,951.193
2012	3	903,658,727.714	920,339,902.246	192,816,982.924	12,670,944.096	119,991,750.28	594,860,224.941
2012	4	774,862,873.225	735,384,751.627	55,975,961.110	37,979,487.747	117,024,764.64	524,404,538.128
2012	5	724,407,294.798	728,447,599.916	46,670,465.172	26,049,917.112	112,002,755.19	543,724,462.444
2012	6	846,120,198.959	854,064,781.826	3,097,229.076	165,536,967.877	116,436,738.82	568,993,846.051

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2012	7	1,135,712,615.191	1,230,752,857.012	276,811.123	419,548,369.706	123,036,635.41	687,891,040.778
2012	8	1,067,326,852.606	1,111,558,927.033	0.000	369,769,333.187	119,886,348.15	621,903,245.698
2012	9	901,158,876.297	923,843,757.458	534,441.767	190,649,033.019	122,020,558.58	610,639,724.091
2012	10	713,231,534.206	725,989,890.094	25,979,058.546	31,589,186.488	112,686,158.73	555,735,486.334
2012	11	797,526,986.095	805,774,715.091	103,315,976.017	7,359,334.013	118,046,378.79	577,053,026.274
2012	12	964,051,228.794	977,235,566.159	160,033,655.235	0.000	138,183,200.75	679,018,710.174
2013	1	1,165,890,745.896	1,154,307,824.623	259,393,268.245	0.000	141,543,640.17	753,370,916.206
2013	2	1,039,768,168.250	1,073,768,616.388	306,352,813.720	0.000	114,518,000.99	652,897,801.683
2013	3	968,629,067.390	1,019,829,304.264	276,752,192.274	0.000	108,032,039.66	635,045,072.333
2013	4	884,193,871.806	943,236,792.453	198,833,396.824	0.000	107,014,546.48	637,388,849.145
2013	5	725,076,076.146	732,370,481.790	57,197,635.774	27,370,274.016	100,011,152.44	547,791,419.557
2013	6	799,824,875.020	787,846,809.603	10,960,368.029	113,421,931.001	105,465,931.56	557,998,579.017
2013	7	958,470,248.534	986,982,148.751	157,770.229	250,443,079.807	110,529,167.37	625,852,131.342
2013	8	901,256,484.477	928,774,694.641	0.000	204,502,470.509	108,793,572.93	615,478,651.206
2013	9	936,510,146.047	949,369,786.219	17,593.030	230,740,112.748	110,198,618.22	608,413,462.222
2013	10	743,905,019.304	722,671,698.356	7,656,237.423	85,791,805.556	101,564,593.92	527,659,061.459
2013	11	784,782,212.808	803,457,209.396	92,945,160.887	7,749,792.040	106,815,742.29	595,946,514.179
2013	12	1,038,156,605.392	1,053,087,980.593	239,839,803.553	0.000	124,651,936.63	688,596,240.406
2014	1	1,285,660,202.039	1,326,618,927.774	369,463,555.051	0.000	137,192,066.57	819,963,306.153
2014	2	1,166,504,983.044	1,200,185,981.557	433,271,101.612	0.000	109,795,066.16	657,119,813.784
2014	3	1,068,291,707.948	1,118,070,611.700	373,732,488.293	0.000	104,003,889.35	640,334,234.053
2014	4	874,204,059.608	900,334,873.149	201,396,580.529	731,715.436	100,637,197.49	597,569,379.690
2014	5	732,499,742.659	756,265,244.854	54,610,721.190	21,276,157.275	98,321,769.75	582,056,596.634
2014	6	817,631,605.288	784,428,629.192	12,475,248.864	137,266,735.514	100,010,360.91	534,676,283.900
2014	7	946,021,379.623	931,250,029.886	0.000	235,348,809.612	106,416,716.17	589,484,504.109
2014	8	870,577,378.552	856,671,459.190	0.000	176,400,052.890	103,946,704.22	576,324,702.078
2014	9	948,752,547.778	929,276,351.128	1,196,013.086	241,153,553.096	105,777,384.36	581,149,400.587
2014	10	706,160,578.500	705,678,457.420	17,195,488.683	36,264,489.702	97,735,944.00	554,482,535.037
2014	11	778,366,603.724	771,788,322.712	101,574,862.478	954,006.440	101,200,518.26	568,058,935.533
2014	12	1,057,210,511.172	1,085,922,255.580	251,260,168.325	0.000	120,683,691.05	713,978,396.203
2015	1	1,226,042,763.852	1,215,289,689.635	315,038,696.178	0.000	125,721,766.09	774,529,227.371
2015	2	1,116,272,574.188	1,116,428,804.457	378,740,897.079	0.000	101,781,965.94	635,905,941.435
2015	3	1,084,644,602.912	1,070,580,325.257	395,231,677.863	0.000	95,141,408.89	580,207,238.508

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2015	4	845,329,863.623	842,916,017.920	161,956,995.429	300,748.860	94,266,355.39	586,391,918.239
2015	5	699,125,817.733	699,854,790.694	49,550,742.086	28,059,930.969	85,771,276.34	536,472,841.296
2015	6	805,065,038.973	772,375,651.502	8,171,168.814	124,826,083.093	92,747,718.83	546,630,680.769
2015	7	880,070,878.531	868,795,651.215	75,161.334	173,734,502.547	97,466,532.12	597,519,455.214
2015	8	982,058,105.135	1,003,984,951.907	0.000	280,366,244.189	96,835,945.24	626,782,762.483
2015	9	919,308,567.305	919,801,987.108	82,006.939	212,117,223.819	97,583,575.93	610,019,180.424
2015	10	726,170,642.546	721,888,861.334	12,499,163.367	62,315,412.142	89,889,428.60	557,184,857.222
2015	11	688,148,227.476	695,534,513.144	62,178,680.239	1,469,337.251	86,183,225.86	545,703,269.798
2015	12	973,328,452.094	935,311,398.398	161,854,678.883	0.000	111,986,235.32	661,470,484.195
2016	1	1,091,251,076.759	1,105,285,507.353	256,876,803.442	0.000	110,624,277.53	737,784,426.384
2016	2	1,081,117,893.987	1,031,741,823.842	346,996,175.499	0.000	97,332,440.99	587,413,207.349
2016	3	935,956,844.609	885,542,114.851	250,289,901.009	0.000	90,908,136.42	544,344,077.427
2016	4	825,318,523.426	804,870,566.232	140,949,743.936	131,054.629	90,718,645.56	573,071,122.102
2016	5	687,968,896.713	694,115,156.127	62,415,273.073	5,272,199.330	82,239,094.16	544,188,589.564
2016	6	811,567,883.979	810,850,967.310	12,454,237.975	127,010,551.323	89,109,793.59	582,276,384.422
2016	7	987,892,250.978	972,112,558.157	0.000	224,802,650.224	101,173,104.77	646,136,803.163
2016	8	1,088,914,626.059	1,099,025,995.788	0.000	332,072,905.448	100,344,738.83	666,608,351.507
2016	9	955,066,954.832	1,006,612,655.748	0.000	255,491,290.337	92,752,203.58	658,369,161.832
2016	10	745,128,968.955	749,414,308.234	5,209,820.879	88,996,887.425	86,301,564.07	568,906,035.855
2016	11	691,551,143.371	688,102,367.535	57,255,116.762	8,538,106.738	82,965,187.21	539,343,956.822
2016	12	1,013,854,180.916	959,770,482.071	215,382,120.745	110,782.049	105,849,547.89	638,428,031.391
2017	1	1,169,074,534.539	1,178,463,854.597	344,040,601.914	0.000	106,043,920.76	728,379,331.922
2017	2	1,003,975,719.370	961,585,726.663	274,375,629.326	0.000	93,777,541.84	593,432,555.498
2017	3	884,898,583.069	842,779,232.962	206,208,060.479	0.000	87,233,992.63	549,337,179.852
2017	4	826,554,452.076	795,092,244.928	157,693,596.726	2,286,609.199	85,676,653.70	549,435,385.299
2017	5	675,205,161.336	665,399,238.989	50,190,769.783	19,556,053.807	77,821,254.92	517,831,160.475
2017	6	772,556,827.946	775,481,632.802	11,258,775.828	92,222,508.424	85,998,152.48	586,002,196.071
2017	7	965,107,529.009	942,358,732.619	0.000	207,807,043.283	97,337,951.23	637,213,738.102
2017	8	960,182,923.311	960,941,830.149	0.000	204,632,915.420	97,112,957.42	659,195,957.311
2017	9	803,354,101.389	826,236,023.317	0.000	103,288,322.534	89,981,414.15	632,966,286.632
2017	10	763,438,388.413	759,205,316.891	2,470,482.689	118,455,233.555	82,583,952.25	555,695,648.400
2017	11	732,399,874.425	741,139,467.361	105,320,207.246	6,765,463.559	79,730,720.95	549,323,075.607
2017	12	1,013,694,342.148	964,218,800.560	220,987,977.081	0.000	101,888,768.01	641,342,055.467

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2018	1	1,235,809,378.975	1,232,818,579.572	412,240,038.609	0.000	103,683,457.46	716,895,083.506
2018	2	1,080,977,903.505	1,015,580,574.893	358,720,281.261	0.000	90,928,794.67	565,931,498.959
2018	3	945,045,667.144	904,848,771.232	268,826,258.633	0.000	85,132,802.83	550,889,709.765
2018	4	902,248,122.610	898,592,927.826	228,560,174.216	0.000	84,814,104.06	585,218,649.547
2018	5	727,080,264.501	730,010,954.474	93,819,895.827	18,954,356.002	77,338,201.18	539,898,501.466
2018	6	803,228,803.514	836,895,045.241	2,011,177.216	139,074,142.225	83,360,710.99	612,449,014.811
2018	7	1,013,373,670.705	1,051,902,159.917	0.000	256,012,401.068	95,348,176.69	700,541,582.161
2018	8	1,001,343,092.250	990,472,815.684	0.000	251,651,485.493	94,382,602.66	644,438,727.530
2018	9	932,817,302.448	975,658,702.421	0.000	239,019,663.225	87,345,818.36	649,293,220.836
2018	10	729,865,610.605	729,865,610.605	20,113,727.470	95,551,203.414	77,324,940.26	536,875,739.459
2018	11	767,969,483.495	755,292,380.728	141,956,203.804	10,308,736.428	77,514,269.52	525,513,170.976
2018	12	1,061,615,590.820	1,012,024,307.698	268,211,843.538	0.000	99,885,752.96	643,926,711.200
2019	1	1,090,513,252.741	1,070,080,301.493	272,995,293.379	0.000	99,509,220.21	697,575,787.903
2019	2	1,065,414,011.533	0	343,589,188.143	0.000	87,861,342.35	633,963,481.041
2019	3	956,512,667.416	0	280,886,744.198	656,798.583	82,158,013.15	592,811,111.481
2019	4	829,819,199.520	163,098,402.536	4,142,489.705	4,142,489.705	80,649,788.71	581,928,518.573
2019	5	685,175,524.104	57,550,011.881	20,912,531.334	20,912,531.334	73,849,797.34	532,863,183.550
2019	6	770,274,400.617	10,470,752.450	100,042,654.414	100,042,654.414	80,306,862.08	579,454,131.669
2019	7	994,639,573.311	320,883.691	240,198,181.333	240,198,181.333	91,792,410.02	662,328,098.267
2019	8	1,010,357,252.420	0.000	263,745,747.823	263,745,747.823	90,878,405.51	655,733,099.087
2019	9	884,254,776.009	401,810.057	192,551,183.352	192,551,183.352	84,146,042.95	607,155,739.655
2019	10	688,317,026.287	18,946,299.823	57,263,978.641	57,263,978.641	74,506,332.81	537,600,415.009
2019	11	707,460,864.502	92,406,303.240	5,349,059.404	5,349,059.404	74,214,050.41	535,491,451.446
2019	12	999,662,083.539	215,809,580.453	17,872.386	17,872.386	95,409,246.96	688,425,383.744
2020	1	1,127,119,213.300	315,313,293.788	0.000	0.000	93,061,486.10	718,744,433.411
2020	2	1,052,123,562.655	335,667,304.436	0.000	0.000	82,131,064.23	634,325,193.991
2020	3	944,797,585.290	274,381,126.734	645,715.924	645,715.924	76,779,263.56	592,991,479.069
2020	4	820,744,008.046	159,288,627.924	4,071,951.489	4,071,951.489	75,359,242.08	582,024,186.558
2020	5	678,436,854.579	56,202,178.769	20,555,429.985	20,555,429.985	68,973,585.22	532,705,660.604
2020	6	763,219,735.230	10,224,631.626	98,327,869.872	98,327,869.872	75,047,870.69	579,619,363.043
2020	7	985,531,625.849	313,291.732	236,054,076.603	236,054,076.603	85,880,550.34	663,283,707.173
2020	8	1,001,060,684.865	0.000	259,206,692.355	259,206,692.355	85,042,537.08	656,811,455.429
2020	9	875,975,484.836	392,365.578	189,256,405.758	189,256,405.758	78,677,159.62	607,649,553.881

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2020	10	681,955,362.061		18,505,064.841	56,294,740.433	69,601,362.90	537,554,193.886
2020	11	700,196,120.868		90,275,466.398	5,259,512.065	69,315,415.36	535,345,727.048
2020	12	990,265,782.057		211,509,173.878	17,618.221	89,270,853.97	689,468,135.991
2021	1	1,117,099,816.763		310,051,798.031	0.000	89,236,431.80	717,811,586.930
2021	2	1,042,469,657.052		330,156,130.413	0.000	78,761,506.09	633,552,020.549
2021	3	936,401,408.833		269,944,636.390	638,696.259	73,620,438.90	592,197,637.289
2021	4	814,306,673.012		156,762,556.823	4,028,705.705	72,260,115.89	581,255,294.597
2021	5	673,666,688.086		55,329,099.101	20,342,629.984	66,121,141.67	531,873,817.336
2021	6	758,418,341.350		10,069,490.453	97,339,884.251	71,982,974.87	579,025,991.772
2021	7	979,695,350.434		308,616.934	233,736,374.169	82,447,606.46	663,202,752.876
2021	8	995,253,989.971		0.000	256,737,496.214	81,658,804.93	656,857,688.828
2021	9	870,732,227.362		386,717.211	187,486,762.361	75,504,649.86	607,354,097.925
2021	10	677,702,903.145		18,240,970.563	55,775,186.732	66,750,490.52	536,936,255.327
2021	11	695,309,011.063		88,995,370.178	5,211,491.680	66,464,708.05	534,637,441.160
2021	12	983,992,748.472		208,916,010.722	17,485.006	85,699,389.06	689,359,863.680
2022	1	1,110,540,799.328		306,826,880.164	0.000	87,006,430.39	716,707,488.770
2022	2	1,036,219,687.774		326,803,202.912	0.000	76,798,217.05	632,618,267.812
2022	3	930,952,757.751		267,258,656.111	635,336.772	71,779,740.15	591,279,024.719
2022	4	810,082,801.676		155,245,602.157	4,008,377.036	70,455,781.95	580,373,040.530
2022	5	670,478,605.963		54,803,121.726	20,242,918.531	64,458,833.98	530,973,731.726
2022	6	755,293,182.722		9,975,023.148	96,871,607.283	70,197,888.17	578,248,664.125
2022	7	976,144,638.558		305,784.140	232,644,379.648	80,454,869.32	662,739,605.449
2022	8	991,656,153.638		0.000	255,524,043.287	79,690,329.72	656,441,780.629
2022	9	867,340,766.552		383,160.095	186,597,430.956	73,652,712.54	606,707,462.962
2022	10	674,738,068.155		18,072,893.656	55,507,691.910	65,078,587.56	536,078,895.026
2022	11	691,842,721.939		88,173,236.538	5,186,195.856	64,789,091.53	533,694,198.014
2022	12	979,025,034.634		206,971,468.084	17,398.485	83,577,140.47	688,459,027.597
2023	1	1,104,645,959.314		303,873,411.402	0.000	85,458,009.61	715,314,538.305
2023	2	1,030,435,219.841		323,624,042.090	0.000	75,430,503.43	631,380,674.325
2023	3	925,782,906.656		264,623,088.045	632,440.236	70,491,121.60	590,036,256.778
2023	4	805,977,242.600		153,689,101.054	3,989,438.185	69,186,084.07	579,112,619.291
2023	5	667,379,391.691		54,249,568.092	20,145,211.066	63,282,994.46	529,701,618.072
2023	6	752,239,923.391		9,873,477.015	96,394,725.445	68,937,749.77	577,033,971.158

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2023	7	972,573,901.967		302,658.816	231,483,727.604	79,056,439.67	661,731,075.881
2023	8	988,012,962.380		0.000	254,223,302.634	78,309,632.31	655,480,027.435
2023	9	863,910,515.302		379,183.620	185,635,369.549	72,344,687.38	605,551,274.749
2023	10	671,784,768.518		17,886,095.487	55,222,428.489	63,890,402.33	534,785,842.217
2023	11	688,351,309.615		87,265,418.929	5,159,626.449	63,596,925.93	532,329,338.310
2023	12	973,800,871.544		204,762,831.913	17,303.943	82,069,473.52	686,951,262.165
2024	1	1,098,373,534.002		300,561,893.303	0.000	84,158,212.04	713,653,428.655
2024	2	1,024,276,171.049		320,077,573.516	0.000	74,283,316.85	629,915,280.683
2024	3	920,365,939.432		261,720,486.606	629,408.366	69,411,689.39	588,604,355.067
2024	4	801,779,316.512		151,994,825.343	3,970,189.157	68,124,572.51	577,689,729.497
2024	5	664,297,430.522		53,651,057.469	20,047,963.314	62,300,051.37	528,298,358.368
2024	6	749,281,155.557		9,764,813.219	95,932,142.720	67,889,327.23	575,694,872.392
2024	7	969,165,247.693		299,335.111	230,379,027.929	77,900,261.99	660,586,622.661
2024	8	984,609,410.741		0.000	253,026,099.751	77,172,029.43	654,411,281.561
2024	9	860,741,359.671		375,074.926	184,773,070.186	71,265,840.34	604,327,374.220
2024	10	669,011,238.186		17,692,860.418	54,967,750.579	62,906,831.61	533,443,795.582
2024	11	684,992,306.183		86,327,927.467	5,136,107.917	62,609,111.62	530,919,159.174
2024	12	968,821,381.930		202,553,680.015	17,224.593	80,828,941.14	685,421,536.179
2025	1	1,092,443,394.685		297,347,255.564	0.000	83,293,636.61	711,802,502.510
2025	2	1,018,533,598.332		316,692,160.750	0.000	73,524,348.55	628,317,089.037
2025	3	915,356,492.562		258,964,598.894	627,164.404	68,697,389.38	587,067,339.888
2025	4	797,998,777.632		150,415,477.452	3,956,436.125	67,425,836.31	576,201,027.746
2025	5	661,588,006.036		53,095,957.059	19,979,164.994	61,652,139.77	526,860,744.213
2025	6	746,790,622.692		9,664,645.913	95,609,235.364	67,204,781.55	574,311,959.868
2025	7	966,433,693.501		296,299.790	229,623,812.262	77,156,574.65	659,357,006.800
2025	8	981,882,788.886		0.000	252,201,534.601	76,440,825.51	653,240,428.773
2025	9	858,141,772.088		371,289.455	184,174,816.064	70,565,344.13	603,030,322.438
2025	10	666,625,324.665		17,514,512.430	54,790,189.490	62,260,553.84	532,060,068.901
2025	11	681,995,808.283		85,458,605.838	5,119,553.655	61,956,440.61	529,461,208.179
2025	12	964,378,024.854		200,532,281.933	17,170.098	80,018,071.33	683,810,501.490
2026	1	1,087,231,994.693		294,458,032.800	0.000	82,599,868.28	710,174,093.616
2026	2	1,013,436,229.593		313,622,555.879	0.000	72,914,248.00	626,899,425.711
2026	3	910,927,707.498		256,468,096.866	625,728.315	68,123,570.08	585,710,312.232

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2026	4	794,662,272.168		148,972,267.306	3,947,500.454	66,863,757.99	574,878,746.415
2026	5	659,246,178.711		52,588,443.209	19,934,542.170	61,131,243.98	525,591,949.353
2026	6	744,697,479.272		9,571,926.401	95,393,796.181	66,654,256.29	573,077,500.401
2026	7	964,195,182.483		293,453.773	229,104,914.059	76,559,174.52	658,237,640.134
2026	8	979,669,757.229		0.000	251,640,295.781	75,854,077.59	652,175,383.857
2026	9	856,000,855.896		367,753.589	183,771,602.879	70,001,884.55	601,859,614.880
2026	10	664,584,322.385		17,348,990.233	54,673,456.263	61,739,581.83	530,822,294.057
2026	11	679,361,085.977		84,657,801.152	5,108,961.319	61,430,389.74	528,163,933.761
2026	12	960,517,545.938		198,719,067.047	17,139.044	79,370,717.70	682,410,622.150
2027	1	1,082,713,480.987		291,855,666.515	0.000	82,007,914.59	708,849,899.883
2027	2	1,009,001,804.631		310,854,055.210	0.000	72,394,354.53	625,753,394.890
2027	3	907,101,167.993		254,218,312.872	625,082.138	67,635,798.44	584,621,974.541
2027	4	791,814,366.120		147,662,370.007	3,943,395.963	66,386,360.78	573,822,239.366
2027	5	657,329,688.919		52,129,482.360	19,914,797.502	60,691,106.49	524,594,302.569
2027	6	743,121,163.180		9,489,013.829	95,303,981.934	66,191,369.52	572,136,797.900
2027	7	962,631,818.548		290,905.589	228,886,389.723	76,055,486.58	657,399,036.655
2027	8	978,138,590.684		0.000	251,403,266.875	75,358,739.93	651,376,583.878
2027	9	854,494,815.188		364,619.540	183,615,694.167	69,528,927.91	600,985,573.573
2027	10	663,000,689.995		17,201,066.857	54,626,821.301	61,301,599.04	529,871,202.798
2027	11	677,177,166.882		83,937,769.262	5,104,664.814	60,986,566.80	527,148,166.002
2027	12	957,049,012.879		196,989,931.398	17,122.027	78,812,467.87	681,229,491.582
2028	1	1,078,580,921.045		289,360,849.180	0.000	81,443,938.16	707,776,133.710
2028	2	1,004,934,249.137		308,202,726.307	0.000	71,899,538.64	624,831,984.185
2028	3	903,597,081.984		252,054,409.773	624,953.092	67,171,761.53	583,745,957.592
2028	4	789,268,330.133		146,408,648.943	3,942,612.070	65,933,348.78	572,983,720.338
2028	5	655,673,736.333		51,686,769.079	19,911,028.496	60,273,992.43	523,801,946.332
2028	6	741,845,132.505		9,408,561.821	95,286,964.890	65,750,954.57	571,398,651.225
2028	7	961,477,721.048		288,447.322	228,848,948.757	75,574,205.80	656,766,119.166
2028	8	977,025,885.019		0.000	251,366,547.732	74,884,758.12	650,774,579.164
2028	9	853,324,510.892		361,556.225	183,592,282.590	69,076,022.73	600,294,649.352
2028	10	661,663,386.298		17,057,131.356	54,620,936.360	60,883,813.67	529,101,504.914
2028	11	675,216,475.412		83,237,416.593	5,104,213.709	60,562,826.89	526,312,018.220
2028	12	953,993,236.038		195,380,512.824	17,122.896	78,283,631.35	680,311,968.972

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2029	1	1,075,595,576.969		286,879,105.119	0.000	81,033,444.73	707,683,027.117
2029	2	1,001,861,420.837		305,563,975.116	0.000	71,538,230.28	624,759,215.445
2029	3	901,037,457.156		249,901,056.242	625,377.689	66,834,091.76	583,676,931.470
2029	4	787,644,493.815		145,161,328.733	3,945,374.583	65,603,950.98	572,933,839.518
2029	5	654,888,156.289		51,247,500.586	19,925,359.395	59,971,438.27	523,743,858.039
2029	6	741,466,646.337		9,328,754.582	95,356,989.135	65,423,446.73	571,357,455.892
2029	7	961,309,346.561		286,004.675	229,020,194.151	75,206,666.44	656,796,481.291
2029	8	976,902,436.684		0.000	251,556,874.521	74,522,660.07	650,822,902.092
2029	9	853,138,860.683		358,500.002	183,732,100.536	68,738,624.27	600,309,635.877
2029	10	661,224,064.375		16,913,019.807	54,662,651.358	60,581,010.02	529,067,383.191
2029	11	674,156,997.469		82,534,065.965	5,108,094.991	60,259,065.57	526,255,770.947
2029	12	951,892,292.056		193,724,040.544	17,135.453	77,893,132.39	680,257,983.666
2030	1	1,071,188,049.489		284,396,643.208	0.000	77,572,075.46	709,219,330.818
2030	2	997,585,953.516		302,934,669.121	0.000	68,487,710.24	626,163,574.155
2030	3	897,365,192.768		247,764,880.971	626,024.998	63,984,280.90	584,990,005.900
2030	4	784,957,243.528		143,929,087.795	3,949,611.873	62,811,444.67	574,267,099.193
2030	5	653,158,981.161		50,815,790.830	19,947,637.154	57,420,088.02	524,975,465.160
2030	6	740,272,184.197		9,250,729.211	95,467,407.764	62,661,140.07	572,892,907.156
2030	7	960,436,394.398		283,628.677	229,293,906.621	72,057,521.37	658,801,337.731
2030	8	976,095,363.860		0.000	251,867,260.692	71,403,775.67	652,824,327.501
2030	9	852,157,424.054		355,565.964	183,966,868.799	65,843,812.95	601,991,176.340
2030	10	659,868,938.326		16,775,735.083	54,735,009.805	58,007,962.23	530,350,231.206
2030	11	672,103,307.075		81,869,893.720	5,115,103.338	57,688,532.61	527,429,777.405
2030	12	948,743,174.487		192,197,333.936	17,161.160	74,588,384.34	681,940,295.051
2031	1	1,067,509,680.237		282,165,033.566	0.000	74,448,551.56	710,896,095.108
2031	2	993,982,970.512		300,562,172.682	0.000	65,734,418.95	627,686,378.883
2031	3	894,286,669.795		245,828,315.571	627,709.329	61,412,595.57	586,418,049.324
2031	4	782,767,811.880		142,806,305.881	3,960,269.951	60,291,199.56	575,710,036.489
2031	5	651,853,870.216		50,420,273.493	20,001,670.129	55,118,176.40	526,313,750.198
2031	6	739,580,645.281		9,178,921.036	95,727,288.313	60,165,422.49	574,509,013.439
2031	7	960,245,409.766		281,432.615	229,920,922.543	69,206,109.99	660,836,944.622
2031	8	975,981,098.533		0.000	252,559,345.281	68,578,428.50	654,843,324.753
2031	9	851,773,573.891		352,829.687	184,475,855.051	63,224,574.31	603,720,314.846

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2031	10	658,922,419.376		16,647,058.059	54,887,421.086	55,682,790.40	531,705,149.827
2031	11	670,419,274.981		81,244,146.206	5,129,448.147	55,365,953.22	528,679,727.407
2031	12	945,925,413.383		190,696,154.916	17,206.971	71,592,062.92	683,619,988.579
2032	1	1,064,063,561.743		279,820,237.291	0.000	71,759,503.65	712,483,820.803
2032	2	990,548,886.446		298,063,991.872	0.000	63,363,462.30	629,121,432.279
2032	3	891,378,109.934		243,786,050.594	629,162.077	59,198,127.60	587,764,769.667
2032	4	780,778,654.826		141,620,145.451	3,969,452.230	58,120,802.62	577,068,254.528
2032	5	650,761,625.568		50,001,405.970	20,048,069.991	53,136,079.48	527,576,070.129
2032	6	739,079,203.526		9,102,686.110	95,949,816.024	58,014,445.23	576,012,256.163
2032	7	960,181,645.869		279,095.772	230,456,465.507	66,745,469.60	662,700,614.993
2032	8	975,975,250.538		0.000	253,148,869.400	66,139,756.27	656,686,624.869
2032	9	851,535,040.103		349,902.234	184,907,578.938	60,965,449.66	605,312,109.266
2032	10	658,172,652.563		16,509,051.901	55,016,367.996	53,679,148.96	532,968,083.708
2032	11	668,926,147.683		80,571,109.172	5,141,539.487	53,364,956.90	529,848,542.121
2032	12	943,364,519.352		189,126,985.407	17,248.362	69,012,348.14	685,207,937.441
2033	1	1,061,076,200.139		277,577,733.616	0.000	69,579,820.39	713,918,646.131
2033	2	987,538,883.276		295,675,955.659	0.000	61,441,981.44	630,420,946.176
2033	3	888,860,989.234		241,833,714.905	630,693.536	57,404,270.61	588,992,310.185
2033	4	779,141,867.509		140,487,402.684	3,979,156.648	56,363,344.46	578,311,963.720
2033	5	649,974,042.535		49,601,783.391	20,097,222.278	51,532,242.33	528,742,794.535
2033	6	738,868,631.807		9,029,956.688	96,185,363.699	56,272,584.42	577,380,727.002
2033	7	960,414,753.873		276,865.327	231,022,025.940	64,750,287.25	664,365,575.359
2033	8	976,264,388.163		0.000	253,770,067.053	64,162,250.78	658,332,070.327
2033	9	851,595,101.371		347,102.060	185,359,805.215	59,135,254.15	606,752,939.944
2033	10	657,716,168.694		16,376,727.112	55,150,315.576	52,057,452.37	534,131,673.635
2033	11	667,755,790.065		79,924,545.501	5,154,017.534	51,745,572.63	530,931,654.403
2033	12	941,111,341.441		187,574,648.446	17,287.631	66,917,482.45	686,601,922.910
2034	1	1,058,382,579.444		275,308,919.555	0.000	67,953,784.23	715,119,875.656
2034	2	984,771,773.229		293,255,559.780	0.000	60,008,586.64	631,507,626.812
2034	3	886,570,920.807		239,850,990.208	632,070.095	56,066,392.37	590,021,468.136
2034	4	777,730,577.317		139,334,025.325	3,987,801.563	55,052,899.30	579,355,851.129
2034	5	649,400,636.545		49,194,351.787	20,140,818.885	50,337,082.61	529,728,383.261
2034	6	738,844,982.911		8,955,766.095	96,393,894.301	54,973,633.60	578,521,688.917

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2034	7	960,795,311.493		274,592.123	231,524,299.899	63,261,054.40	665,735,365.073
2034	8	976,695,817.634		0.000	254,324,203.864	62,686,165.16	659,685,448.607
2034	9	851,840,284.773		344,260.485	185,767,447.908	57,770,779.88	607,957,796.497
2034	10	657,491,138.781		16,242,948.831	55,272,620.225	50,849,951.25	535,125,618.474
2034	11	666,842,068.419		79,273,060.990	5,165,541.818	50,539,970.20	531,863,495.406
2034	12	939,375,599.784		186,121,959.098	17,332.048	65,364,550.25	687,871,758.384
2035	1	1,056,306,345.762		273,350,447.675	0.000	66,472,775.80	716,483,122.287
2035	2	982,621,921.674		291,176,582.478	0.000	58,703,550.38	632,741,788.814
2035	3	884,847,009.441		238,158,684.640	633,840.268	54,849,877.25	591,204,607.278
2035	4	776,778,539.276		138,355,172.358	3,999,084.878	53,862,475.74	580,561,806.304
2035	5	649,183,753.744		48,850,319.291	20,198,416.547	49,253,329.69	530,881,688.218
2035	6	739,192,966.160		8,893,416.678	96,672,438.835	53,794,796.07	579,832,314.580
2035	7	961,635,895.685		272,688.121	232,199,502.993	61,905,830.93	667,257,873.637
2035	8	977,599,062.419		0.000	255,071,713.850	61,342,405.83	661,184,942.734
2035	9	852,515,104.280		341,888.555	186,316,959.580	56,531,043.11	609,325,213.033
2035	10	657,612,316.844		16,131,273.015	55,436,868.174	49,755,015.82	536,289,159.833
2035	11	666,325,493.074		78,729,414.442	5,180,975.789	49,446,908.37	532,968,194.469
2035	12	938,095,010.875		184,863,802.484	17,385.235	63,947,680.47	689,266,142.682
2036	1	1,054,617,957.081		271,523,317.851	0.000	65,182,127.69	717,912,511.536
2036	2	980,834,896.074		289,235,612.798	0.000	57,566,366.23	634,032,917.045
2036	3	883,443,012.989		236,574,820.021	635,893.464	53,790,173.19	592,442,126.317
2036	4	776,093,339.750		137,436,224.843	4,012,065.873	52,825,689.97	581,819,359.068
2036	5	649,187,151.416		48,526,104.144	20,264,046.085	48,310,267.43	532,086,733.756
2036	6	739,767,611.225		8,834,415.378	96,986,639.515	52,767,549.82	581,179,006.517
2036	7	962,732,973.596		270,878.294	232,953,138.331	60,721,838.21	668,787,118.761
2036	8	978,749,547.445		0.000	255,898,600.131	60,167,648.19	662,683,299.125
2036	9	853,415,531.335		339,618.474	186,920,240.164	55,448,526.84	610,707,145.858
2036	10	657,925,028.794		16,024,182.043	55,616,271.685	48,800,329.01	537,484,246.060
2036	11	666,003,276.848		78,206,247.169	5,197,694.172	48,493,582.23	534,105,753.277
2036	12	936,853,127.693		183,552,989.377	17,435.023	62,700,683.79	690,582,019.499
2037	1	1,052,789,482.395		269,592,902.875	0.000	64,044,901.33	719,151,678.191
2037	2	978,880,458.058		287,169,892.332	0.000	56,563,749.24	635,146,816.485
2037	3	881,877,030.789		234,878,203.665	637,461.147	52,855,376.27	593,505,989.703

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2037	4	775,279,159.059		136,447,315.061	4,021,863.751	51,910,776.44	582,899,203.807
2037	5	649,085,329.694		48,175,733.454	20,313,042.890	47,477,542.60	533,119,010.746
2037	6	740,182,129.887		8,770,389.113	97,218,594.775	51,860,335.61	582,332,810.393
2037	7	963,552,956.577		268,908.369	233,504,655.906	59,676,778.98	670,102,613.324
2037	8	979,598,308.423		0.000	256,497,103.359	59,130,678.73	663,970,526.330
2037	9	854,069,472.949		337,131.068	187,353,341.733	54,492,292.78	611,886,707.372
2037	10	658,100,605.099		15,906,399.748	55,743,707.797	47,956,241.42	538,494,256.129
2037	11	665,551,119.985		77,629,439.789	5,209,476.397	47,650,547.22	535,061,656.577
2037	12	935,718,682.042		182,267,119.051	17,479.671	61,611,111.16	691,822,972.154
2038	1	1,051,224,300.272		267,800,261.226	0.000	63,046,557.33	720,377,481.718
2038	2	977,186,770.440		285,253,962.865	0.000	55,683,741.17	636,249,066.401
2038	3	880,543,025.315		233,306,435.360	639,130.229	52,035,349.67	594,562,110.054
2038	4	774,645,443.620		135,532,008.416	4,032,322.559	51,108,564.18	583,972,548.469
2038	5	649,114,611.916		47,851,786.259	20,365,504.078	46,748,088.47	534,149,233.109
2038	6	740,719,519.237		8,711,286.851	97,468,095.125	51,065,028.83	583,475,108.429
2038	7	964,513,398.515		267,091.440	234,099,390.418	58,759,046.37	671,387,870.285
2038	8	980,594,483.657		0.000	257,146,261.383	58,219,964.60	665,228,257.674
2038	9	854,865,304.628		334,842.276	187,824,037.797	53,653,631.65	613,052,792.905
2038	10	658,406,470.443		15,798,165.729	55,882,853.035	47,217,111.02	539,508,340.662
2038	11	665,263,235.199		77,099,972.872	5,222,392.280	46,912,544.36	536,028,325.691
2038	12	934,722,252.413		181,040,020.147	17,524.192	60,651,655.88	693,013,052.195
2039	1	1,049,801,177.660		266,130,752.959	0.000	62,137,501.61	721,532,923.094
2039	2	975,642,284.300		283,471,794.311	0.000	54,882,439.83	637,288,050.155
2039	3	879,336,800.138		231,847,181.029	640,688.417	51,288,877.57	595,560,053.118
2039	4	774,089,963.777		134,683,097.080	4,042,116.375	50,378,292.90	584,986,457.421
2039	5	649,174,586.296		47,551,812.182	20,414,854.507	46,084,178.88	535,123,740.722
2039	6	741,256,744.533		8,656,665.839	97,704,113.021	50,341,122.80	584,554,842.870
2039	7	965,457,585.710		265,417.879	234,667,161.200	57,923,582.85	672,601,423.779
2039	8	981,579,133.896		0.000	257,770,949.526	57,391,003.67	666,417,180.702
2039	9	855,667,203.370		332,748.116	188,281,630.505	52,890,851.39	614,161,973.361
2039	10	658,744,424.830		15,699,508.561	56,019,505.787	46,545,449.77	540,479,960.715
2039	11	665,059,073.257		76,619,640.841	5,235,238.760	46,242,464.15	536,961,729.505
2039	12	933,927,331.150		179,949,576.625	17,570.254	59,781,766.27	694,178,418.002

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2040	1	1,047,586,985.329		264,648,550.210	0.000	59,279,480.32	723,658,954.797
2040	2	973,472,465.044		281,899,469.544	0.000	52,361,828.13	639,211,167.367
2040	3	877,525,525.376		230,565,925.556	642,347.021	48,935,330.23	597,381,922.573
2040	4	772,891,844.878		133,941,591.590	4,052,658.372	48,070,701.09	586,826,893.829
2040	5	648,600,416.394		47,290,710.374	20,468,362.619	43,977,880.56	536,863,462.840
2040	6	741,201,889.219		8,609,248.788	97,961,328.095	48,050,539.74	586,580,772.594
2040	7	965,863,601.860		263,967.124	235,287,207.994	55,294,949.37	675,017,477.372
2040	8	982,032,155.189		0.000	258,453,832.509	54,785,082.73	668,793,239.949
2040	9	855,858,168.548		330,935.227	188,781,559.710	50,482,049.76	616,263,623.853
2040	10	658,409,213.699		15,614,053.167	56,168,393.472	44,415,918.72	542,210,848.343
2040	11	664,157,000.466		76,202,798.645	5,249,155.130	44,118,989.18	538,586,057.509
2040	12	932,035,722.460		178,836,439.560	17,606.373	57,026,474.08	696,155,202.451
2041	1	1,045,376,766.505		262,979,353.399	0.000	56,835,649.96	725,561,763.146
2041	2	971,245,098.397		280,113,398.232	0.000	50,205,840.06	640,925,860.105
2041	3	875,669,936.562		229,099,244.925	643,492.570	46,922,052.11	599,005,146.961
2041	4	771,705,965.806		133,086,448.134	4,059,800.165	46,096,284.80	588,463,432.705
2041	5	648,077,904.830		46,987,813.461	20,504,058.366	42,175,477.56	538,410,555.438
2041	6	741,146,453.215		8,553,919.760	98,130,283.844	46,089,204.45	588,373,045.164
2041	7	966,137,716.429		262,264.644	235,688,227.434	53,042,948.24	677,144,276.109
2041	8	982,322,452.738		0.000	258,889,803.782	52,552,276.01	670,880,372.943
2041	9	855,952,206.870		328,787.796	189,096,870.366	48,418,449.47	618,108,099.239
2041	10	658,093,454.898		15,512,443.279	56,261,305.814	42,591,988.43	543,727,717.379
2041	11	663,267,415.476		75,705,455.685	5,257,751.924	42,300,290.84	540,003,917.025
2041	12	930,455,749.327		177,720,319.700	17,639.248	54,679,634.84	698,038,155.533
2042	1	1,043,521,087.121		261,448,111.182	0.000	54,800,494.48	727,272,481.457
2042	2	969,360,033.770		278,480,436.945	0.000	48,410,499.66	642,469,097.169
2042	3	874,124,242.611		227,762,456.899	644,701.535	45,245,925.38	600,471,158.801
2042	4	770,774,572.720		132,309,378.319	4,067,414.601	44,452,772.44	589,945,007.361
2042	5	647,748,182.848		46,713,339.516	20,542,474.472	40,675,576.11	539,816,792.752
2042	6	741,263,310.065		8,503,941.821	98,314,053.185	44,456,103.27	589,989,211.785
2042	7	966,601,599.657		260,733.194	236,130,485.198	51,166,439.96	679,043,941.304
2042	8	982,813,316.205		0.000	259,376,224.459	50,691,830.01	672,745,261.734
2042	9	856,255,615.727		326,869.109	189,452,543.606	46,700,533.85	619,775,669.163

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2042	10	657,984,926.735		15,422,002.050	56,367,464.955	41,075,196.36	545,120,263.369
2042	11	662,637,167.761		75,264,500.242	5,267,706.025	40,788,571.80	541,316,389.696
2042	12	929,158,126.022		176,695,678.738	17,673.511	52,724,422.07	699,720,351.703
2043	1	1,041,982,232.000		260,020,563.854	0.000	53,194,296.83	728,767,371.321
2043	2	967,772,053.606		276,960,560.801	0.000	46,993,648.28	643,817,844.528
2043	3	872,849,238.944		226,521,003.125	645,975.266	43,923,654.09	601,758,606.464
2043	4	770,072,139.135		131,589,380.368	4,075,485.188	43,156,653.57	591,250,620.006
2043	5	647,599,936.428		46,459,541.871	20,583,406.781	39,493,394.61	541,063,593.163
2043	6	741,544,123.806		8,457,775.971	98,510,376.154	43,168,129.55	591,407,842.128
2043	7	967,235,756.013		259,318.444	236,602,751.466	49,684,935.00	680,688,751.105
2043	8	983,476,386.191		0.000	259,895,153.418	49,222,866.60	674,358,366.177
2043	9	856,736,487.741		325,094.991	189,831,504.030	45,345,251.44	621,234,637.280
2043	10	658,052,238.421		15,338,237.136	56,480,054.420	39,879,579.59	546,354,367.279
2043	11	662,214,466.124		74,855,511.240	5,278,217.793	39,597,050.30	542,483,686.792
2043	12	928,100,328.583		175,726,597.100	17,708.075	51,180,321.57	701,175,701.842
2044	1	1,040,811,822.045		258,721,532.669	0.000	52,055,888.37	730,034,401.002
2044	2	966,527,193.182		275,577,828.601	0.000	45,989,553.23	644,959,811.350
2044	3	871,878,866.194		225,391,089.056	647,305.403	42,987,107.70	602,853,364.031
2044	4	769,620,220.825		130,933,176.663	4,083,888.994	42,239,152.51	592,364,002.661
2044	5	647,643,961.345		46,228,004.756	20,625,937.141	38,657,353.03	542,132,666.413
2044	6	741,994,642.585		8,415,705.559	98,714,861.462	42,256,519.35	592,607,556.209
2044	7	968,043,694.659		258,031.646	237,096,534.355	48,634,629.83	682,054,498.828
2044	8	984,322,661.193		0.000	260,442,345.215	48,181,435.62	675,698,880.360
2044	9	857,416,253.022		323,494.152	190,234,494.286	44,386,050.89	622,472,213.697
2044	10	658,325,299.795		15,262,977.795	56,600,906.252	39,034,840.87	547,426,574.875
2044	11	662,044,165.713		74,489,623.417	5,289,608.520	38,755,523.25	543,509,410.522
2044	12	927,321,617.124		174,827,831.073	17,743.118	50,084,765.69	702,391,277.239
2045	1	1,039,650,724.767		257,349,578.586	0.000	51,168,864.72	731,132,281.466
2045	2	965,275,092.034		274,116,254.359	0.000	45,207,415.63	645,951,422.047
2045	3	870,909,820.129		224,195,481.457	648,453.909	42,257,969.35	603,807,915.417
2045	4	769,193,664.038		130,239,299.319	4,091,164.787	41,525,222.54	593,337,977.389
2045	5	647,725,184.720		45,983,046.225	20,662,745.740	38,007,323.63	543,072,069.127
2045	6	742,462,405.795		8,371,095.987	98,891,141.286	41,547,263.03	593,652,905.491

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2045	7	968,823,971.510		256,662.282	237,519,256.159	47,816,495.11	683,231,557.962
2045	8	985,123,181.493		0.000	260,904,240.830	47,369,815.55	676,849,125.113
2045	9	858,070,616.007		321,769.926	190,570,665.710	43,638,885.38	623,539,294.988
2045	10	658,612,378.091		15,181,366.178	56,700,173.355	38,376,974.20	548,353,864.359
2045	11	661,880,987.730		74,090,036.234	5,298,814.117	38,099,728.63	544,392,408.751
2045	12	926,587,665.442		173,884,000.752	17,773.518	49,231,785.90	703,454,105.271
2046	1	1,038,585,881.668		256,032,377.367	0.000	50,397,971.29	732,155,533.008
2046	2	964,106,018.038		272,707,212.966	0.000	44,527,430.95	646,871,374.119
2046	3	870,004,225.699		223,038,912.009	649,530.217	41,623,996.47	604,691,787.001
2046	4	768,805,736.772		129,565,432.540	4,097,906.052	40,904,408.68	594,237,989.504
2046	5	647,824,003.157		45,744,615.208	20,696,628.021	37,442,183.17	543,940,576.762
2046	6	742,924,311.247		8,327,583.840	99,052,350.116	40,930,296.91	594,614,080.377
2046	7	969,573,663.226		255,325.644	237,904,829.668	47,104,455.83	684,309,052.086
2046	8	985,891,554.977		0.000	261,325,847.231	46,663,444.15	677,902,263.600
2046	9	858,704,646.274		320,087.350	190,877,157.747	42,988,777.97	624,518,623.211
2046	10	658,908,143.869		15,101,891.432	56,791,215.754	37,804,912.77	549,210,123.914
2046	11	661,747,971.404		73,701,566.554	5,307,296.377	37,529,534.66	545,209,573.817
2046	12	925,915,297.620		172,972,072.585	17,801.975	48,489,865.10	704,435,557.959
2047	1	1,037,620,121.145		254,755,864.394	0.000	49,736,031.54	733,128,225.209
2047	2	963,039,911.323		271,347,096.205	0.000	43,943,832.37	647,748,982.745
2047	3	869,196,005.610		221,926,094.472	650,599.139	41,080,274.42	605,539,037.583
2047	4	768,499,767.078		128,918,869.224	4,104,650.380	40,372,346.06	595,103,901.418
2047	5	647,984,646.335		45,516,240.999	20,730,666.356	36,958,292.94	544,779,446.038
2047	6	743,440,102.161		8,285,978.748	99,214,980.665	40,401,754.19	595,537,388.562
2047	7	970,376,150.060		254,048.713	238,294,426.816	46,493,634.10	685,334,040.431
2047	8	986,713,452.069		0.000	261,752,169.678	46,057,406.37	678,903,876.019
2047	9	859,397,553.076		318,482.002	191,187,402.435	42,431,725.31	625,459,943.327
2047	10	659,264,355.837		15,025,969.467	56,882,902.140	37,315,193.07	550,040,291.158
2047	11	661,691,596.735		73,330,185.199	5,315,808.444	37,041,382.66	546,004,220.431
2047	12	925,349,885.297		172,098,379.976	17,830.350	47,853,575.50	705,380,099.471
2048	1	1,036,713,500.426		253,506,125.269	0.000	49,145,523.54	734,061,851.622
2048	2	962,021,134.907		270,010,426.446	0.000	43,423,018.78	648,587,689.682
2048	3	868,421,816.592		220,828,276.296	651,543.941	40,594,999.63	606,346,996.722

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2048	4	768,214,559.455		128,278,229.324	4,110,531.233	39,897,468.74	595,928,330.161
2048	5	648,151,878.565		45,288,882.972	20,759,892.801	36,526,420.26	545,576,682.529
2048	6	743,935,314.502		8,244,357.892	99,352,334.633	39,929,647.90	596,408,974.076
2048	7	971,114,754.851		252,765.697	238,618,374.133	45,947,595.69	686,296,019.330
2048	8	987,457,318.530		0.000	262,100,643.017	45,515,446.74	679,841,228.776
2048	9	860,025,288.663		316,853.159	191,435,942.533	41,933,468.16	626,339,024.807
2048	10	659,596,009.550		14,948,628.919	56,955,133.111	36,877,133.82	550,815,113.702
2048	11	661,620,780.878		72,950,311.480	5,322,396.400	36,604,540.97	546,743,532.030
2048	12	924,750,750.191		171,200,280.968	17,851.815	47,283,460.50	706,249,156.912
2049	1	1,035,829,961.267		252,266,246.262	0.000	48,603,781.35	734,959,933.654
2049	2	961,023,221.059		268,683,955.232	0.000	42,945,207.46	649,394,058.369
2049	3	867,664,971.757		219,738,577.329	652,314.092	40,149,852.87	607,124,227.462
2049	4	767,941,144.720		127,642,188.363	4,115,306.647	39,461,923.03	596,721,726.680
2049	5	648,321,538.825		45,063,110.860	20,783,519.061	36,130,416.16	546,344,492.738
2049	6	744,408,462.062		8,203,019.639	99,462,810.189	39,496,596.23	597,246,036.001
2049	7	971,792,321.810		251,491.179	238,877,597.617	45,446,468.36	687,216,764.654
2049	8	988,133,833.755		0.000	262,377,842.874	45,018,018.09	680,737,972.793
2049	9	860,605,926.246		315,234.563	191,632,272.282	41,476,304.98	627,182,114.421
2049	10	659,919,002.035		14,871,762.624	57,011,788.940	36,475,331.76	551,560,118.710
2049	11	661,558,713.451		72,572,706.763	5,327,524.899	36,203,832.17	547,454,649.619
2049	12	924,166,305.028		170,307,248.315	17,868.358	46,760,118.66	707,081,069.694
2050	1	1,035,031,668.592		251,067,688.287	0.000	48,124,859.77	735,839,120.534
2050	2	960,106,761.843		267,401,243.435	0.000	42,522,815.81	650,182,702.599
2050	3	866,979,216.713		218,684,462.762	653,147.536	39,756,496.82	607,885,109.594
2050	4	767,722,754.684		127,026,700.970	4,120,477.763	39,077,191.17	597,498,384.784
2050	5	648,531,612.150		44,844,554.084	20,809,125.237	35,780,877.04	547,097,055.792
2050	6	744,921,564.596		8,162,987.626	99,582,672.917	39,114,043.25	598,061,860.804
2050	7	972,519,625.400		250,256.495	239,159,161.631	45,003,121.07	688,107,086.202
2050	8	988,861,287.284		0.000	262,679,350.921	44,577,818.28	681,604,118.079
2050	9	861,233,385.296		313,665.315	191,846,153.951	41,072,131.31	628,001,434.720
2050	10	660,280,189.903		14,797,209.819	57,073,608.521	36,120,433.09	552,288,938.475
2050	11	661,541,291.586		72,206,317.267	5,333,130.308	35,849,870.09	548,151,973.921
2050	12	923,650,407.390		169,442,201.986	17,886.623	46,297,156.81	707,893,161.968

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2051	1	1,035,040,590.727		250,785,227.295	0.000	47,532,544.86	736,722,818.570
2051	2	960,076,899.022		267,097,655.914	0.000	42,000,435.70	650,978,807.412
2051	3	867,011,848.043		218,434,008.631	654,642.051	39,269,656.14	608,653,541.225
2051	4	767,895,561.895		126,879,784.616	4,129,860.444	38,600,703.07	598,285,213.766
2051	5	648,855,050.129		44,792,044.221	20,856,210.447	35,347,291.79	547,859,503.671
2051	6	745,499,522.471		8,153,293.021	99,806,310.884	38,640,341.14	598,899,577.431
2051	7	973,435,727.244		249,955.188	239,692,235.913	44,455,946.41	689,037,589.728
2051	8	989,807,545.167		0.000	263,259,614.412	44,034,983.66	682,512,947.097
2051	9	862,004,673.430		313,274.731	192,265,658.436	40,572,893.11	628,852,847.153
2051	10	660,695,509.908		14,778,475.120	57,197,195.545	35,681,429.13	553,038,410.113
2051	11	661,737,707.713		72,113,368.608	5,344,564.009	35,412,323.48	548,867,451.616
2051	12	923,699,907.882		169,219,013.479	17,924.446	45,726,872.44	708,736,097.514
2052	1	1,035,053,267.298		250,502,379.569	0.000	46,946,497.57	737,604,390.157
2052	2	960,048,085.815		266,792,417.915	0.000	41,483,511.19	651,772,156.710
2052	3	867,043,777.630		218,181,177.438	656,120.815	38,787,826.75	609,418,652.627
2052	4	768,066,980.006		126,730,883.344	4,139,129.111	38,129,031.98	599,067,935.568
2052	5	649,176,599.725		44,738,619.345	20,902,645.486	34,917,990.17	548,617,344.728
2052	6	746,072,409.562		8,143,393.668	100,026,487.815	38,171,251.80	599,731,276.279
2052	7	974,340,430.928		249,646.481	240,216,192.248	43,914,094.42	689,960,497.780
2052	8	990,740,065.270		0.000	263,828,976.536	43,497,407.49	683,413,681.242
2052	9	862,763,692.682		312,871.900	192,676,474.098	40,078,419.68	629,695,927.001
2052	10	661,103,332.428		14,759,091.628	57,317,990.136	35,246,559.37	553,779,691.290
2052	11	661,925,671.072		72,016,904.401	5,355,717.208	34,978,888.87	549,574,160.590
2052	12	923,735,517.493		168,987,318.439	17,961.306	45,162,068.93	709,568,168.814
2053	1	1,035,046,889.828		250,206,908.338	0.000	46,366,137.19	738,473,844.296
2053	2	959,999,813.536		266,473,627.723	0.000	40,971,575.15	652,554,610.667
2053	3	867,058,590.132		217,917,177.767	657,568.428	38,310,600.36	610,173,243.579
2053	4	768,225,521.244		126,575,440.078	4,148,199.659	37,661,816.93	599,840,064.581
2053	5	649,488,521.043		44,682,863.096	20,948,070.833	34,492,662.99	549,364,924.119
2053	6	746,633,227.574		8,133,065.867	100,241,786.895	37,706,508.42	600,551,866.391
2053	7	975,226,551.638		249,324.521	240,728,329.798	43,377,358.33	690,871,538.990
2053	8	991,653,027.663		0.000	264,385,247.068	42,964,933.60	684,302,846.994
2053	9	863,506,369.503		312,452.177	193,077,636.385	39,588,583.85	630,527,697.088

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Actual Usage	Heating Usage	Cooling Usage	Lighting Usage	Other Usage
2053	10	661,501,014.025		14,738,905.686	57,435,890.244	34,815,734.32	554,510,483.773
2053	11	662,103,041.701		71,916,496.691	5,366,597.765	34,549,516.52	550,270,430.722
2053	12	923,755,074.014		168,746,516.844	17,997.260	44,602,717.38	710,387,842.532
2054	1	1,035,021,565.347		249,900,055.757	0.000	45,791,435.90	739,330,073.688
2054	2	959,933,137.008		266,143,050.507	0.000	40,464,620.94	653,325,465.564
2054	3	867,057,761.335		217,643,853.181	658,990.590	37,837,989.23	610,916,928.336
2054	4	768,372,562.148		126,414,792.696	4,157,114.497	37,199,092.69	600,601,562.264
2054	5	649,792,027.135		44,625,350.894	20,992,736.493	34,071,367.54	550,102,572.208
2054	6	747,184,266.283		8,122,433.227	100,453,577.458	37,246,195.20	601,362,060.397
2054	7	976,098,921.569		248,993.643	241,232,327.385	42,845,845.33	691,771,755.209
2054	8	992,552,309.100		0.000	264,932,871.676	42,437,684.39	685,181,753.037
2054	9	864,238,108.883		312,022.315	193,472,698.479	39,103,531.07	631,349,857.018
2054	10	661,892,184.879		14,718,265.223	57,552,036.706	34,389,113.44	555,232,769.507
2054	11	662,274,266.446		71,813,986.334	5,377,320.102	34,124,385.25	550,958,574.762
2054	12	923,766,634.030		168,501,361.316	18,032.726	44,049,048.66	711,198,191.329

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
1996	1	1,188,141,278.869	101.105	31,103.821	0.000	19,997.657	69,025.546	120,127.024
1996	2	1,045,622,705.878	101.128	32,442.258	0.000	16,198.288	57,101.188	105,741.733
1996	3	932,738,921.907	101.123	24,938.032	0.000	15,894.002	53,489.324	94,321.358
1996	4	882,479,178.828	101.075	18,044.597	53.017	15,313.625	55,785.344	89,196.583
1996	5	744,641,964.815	101.18	6,784.522	1,558.506	14,649.445	52,350.400	75,342.874
1996	6	752,946,688.373	97.052	1,237.399	6,744.415	14,907.343	50,185.824	73,074.982
1996	7	860,641,248.620	101.424	3.306	19,606.495	15,970.626	51,709.251	87,289.678
1996	8	822,178,060.883	101.572	0.000	18,351.046	15,868.460	49,290.764	83,510.270
1996	9	875,456,120.490	101.585	55.474	20,519.667	16,146.117	52,211.952	88,933.210
1996	10	711,054,698.181	101.667	1,901.398	2,938.886	14,861.761	52,588.754	72,290.798
1996	11	759,452,983.050	101.708	10,260.191	0.000	15,261.136	51,721.117	77,242.444
1996	12	1,021,128,006.130	101.792	23,208.583	0.000	18,540.369	62,193.711	103,942.662
1997	1	1,162,300,474.045	101.889	29,606.487	0.000	20,555.383	68,263.763	118,425.633
1997	2	1,018,202,909.926	101.927	34,237.854	0.000	16,648.452	52,896.062	103,782.368
1997	3	937,915,191.364	101.9	23,928.996	0.000	16,323.868	55,320.694	95,573.558
1997	4	857,698,734.053	101.9	15,818.193	0.000	15,755.762	55,825.545	87,399.501
1997	5	729,539,080.651	102.007	9,630.819	0.000	15,071.461	49,715.813	74,418.093
1997	6	712,494,594.806	102.124	2,238.853	2,274.825	15,782.193	52,466.927	72,762.798
1997	7	885,665,422.971	102.383	0.000	24,400.672	16,421.229	49,855.182	90,677.083
1997	8	882,991,832.871	102.484	0.000	26,507.839	16,314.615	47,670.080	90,492.535
1997	9	771,474,885.488	102.391	16.915	10,300.570	16,543.214	52,131.387	78,992.085
1997	10	690,819,552.467	102.473	1,382.227	5,522.958	15,221.030	48,664.138	70,790.352
1997	11	797,290,585.128	102.593	12,621.833	1,232.968	15,655.371	52,286.261	81,796.433
1997	12	1,126,751,637.099	102.926	21,759.383	0.000	19,110.642	75,102.014	115,972.039
1998	1	1,227,584,912.589	103.477	24,774.911	0.000	20,710.006	81,541.887	127,026.804
1998	2	780,444,588.965	102.254	24,439.234	0.000	13,096.219	42,268.128	79,803.581
1998	3	900,640,409.595	102.931	20,240.375	0.000	16,248.931	56,214.512	92,703.818
1998	4	775,187,854.424	102.984	13,456.490	1,036.670	15,650.692	49,688.094	79,831.946
1998	5	689,668,136.736	102.943	3,094.572	2,007.077	14,915.417	50,979.441	70,996.507
1998	6	762,193,670.357	102.881	363.116	10,670.486	15,632.382	51,749.263	78,415.247
1998	7	976,782,601.102	103.064	144.165	30,891.270	16,286.446	53,349.241	100,671.122
1998	8	940,297,351.848	103.053	0.000	31,035.783	16,166.054	49,698.626	96,900.463
1998	9	906,739,938.171	103.187	6.898	26,225.116	16,473.177	50,858.583	93,563.774

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
1998	10	743,409,113.811	103.206	1,103.636	11,193.108	15,124.816	49,302.721	76,724.281
1998	11	734,852,128.744	102.995	7,152.035	571.084	15,509.069	52,453.908	75,686.095
1998	12	923,659,731.278	103.527	11,888.055	0.000	19,006.939	64,728.727	95,623.721
1999	1	1,094,302,000.850	103.556	33,319.247	0.000	20,991.323	59,010.968	113,321.538
1999	2	1,026,491,856.552	103.396	28,319.969	0.000	16,917.625	60,897.557	106,135.152
1999	3	912,777,919.929	103.958	25,968.125	0.000	16,650.456	52,271.986	94,890.567
1999	4	807,659,972.839	103.827	15,192.357	0.000	16,027.611	52,636.943	83,856.912
1999	5	660,642,385.826	103.964	3,571.920	2,246.916	15,316.211	47,547.978	68,683.025
1999	6	775,039,482.661	104.071	252.667	17,959.295	16,045.308	46,401.864	80,659.134
1999	7	1,005,011,341.266	104.133	0.000	36,026.801	16,673.540	51,954.505	104,654.846
1999	8	1,056,309,172.577	104.191	0.000	45,137.623	16,564.439	48,355.847	110,057.909
1999	9	844,576,789.090	104.201	22.195	20,679.948	16,838.678	50,464.925	88,005.746
1999	10	716,402,429.422	104.14	1,815.617	5,893.356	15,485.086	51,412.089	74,606.149
1999	11	713,182,197.617	104.222	6,289.520	459.924	15,917.336	51,662.495	74,329.275
1999	12	941,111,450.897	103.66	15,264.194	27.526	19,752.333	62,511.560	97,555.613
2000	1	1,126,734,758.724	104.486	27,231.433	0.000	21,558.934	68,937.641	117,728.008
2000	2	964,954,727.234	104.522	33,492.384	0.000	17,413.767	49,952.847	100,858.998
2000	3	871,380,711.485	104.57	16,716.413	358.921	17,089.804	56,955.144	91,120.281
2000	4	772,643,673.755	104.351	11,970.380	218.634	16,437.694	51,999.432	80,626.140
2000	5	725,376,208.592	104.357	5,502.697	4,904.429	15,683.563	49,607.396	75,698.085
2000	6	773,909,192.643	104.551	672.605	11,058.588	16,427.356	52,754.431	80,912.980
2000	7	883,862,133.196	104.688	65.854	22,569.623	17,069.411	52,824.871	92,529.759
2000	8	874,349,559.804	104.726	0.000	23,168.348	16,941.868	51,456.916	91,567.132
2000	9	901,455,208.055	104.684	102.378	27,193.023	17,248.953	49,823.583	94,367.937
2000	10	748,924,075.170	104.722	2,377.213	6,788.652	15,870.643	53,392.320	78,428.827
2000	11	716,449,212.001	104.759	6,420.917	461.758	16,299.555	51,872.273	75,054.503
2000	12	1,015,709,984.832	104.829	27,937.782	0.000	19,896.702	58,641.378	106,475.862
2001	1	1,221,091,798.567	105.067	40,965.808	0.000	21,971.524	65,359.119	128,296.452
2001	2	1,059,764,366.995	105.015	32,764.135	0.000	17,744.089	60,782.931	111,291.155
2001	3	936,781,624.615	105.108	27,056.433	0.000	17,414.900	53,991.910	98,463.243
2001	4	816,854,862.700	104.88	17,159.911	462.519	16,748.181	51,301.127	85,671.738
2001	5	723,295,919.360	102.778	3,042.444	5,512.493	15,749.193	50,034.778	74,338.908
2001	6	833,445,931.284	105.07	1,047.490	9,402.866	16,726.239	60,393.569	87,570.164

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2001	7	908,946,040.631	105.042	118.738	26,291.775	17,350.367	51,716.630	95,477.510
2001	8	1,039,984,747.551	105.229	0.000	43,813.600	17,244.448	48,378.507	109,436.555
2001	9	905,255,319.756	105.127	36.055	24,806.520	17,553.148	52,771.054	95,166.776
2001	10	713,824,934.595	105.115	1,998.682	3,630.879	16,153.517	53,250.630	75,033.708
2001	11	724,584,451.880	105.196	6,403.803	192.272	16,597.912	53,029.399	76,223.386
2001	12	911,744,702.685	105.242	10,607.423	0.000	20,241.312	65,105.101	95,953.836
2002	1	1,108,909,913.581	105.532	28,338.370	0.000	22,891.749	65,795.362	117,025.481
2002	2	940,755,221.055	105.63	24,362.450	0.000	18,617.135	56,392.389	99,371.974
2002	3	944,386,353.722	105.45	24,498.843	0.000	18,253.425	56,833.273	99,585.541
2002	4	881,179,152.375	104.079	18,953.057	1,758.594	17,443.969	53,556.625	91,712.245
2002	5	759,958,630.217	105.681	7,035.542	3,805.823	16,843.741	52,628.081	80,313.188
2002	6	800,552,041.811	105.617	2,672.385	9,384.358	17,574.581	54,920.581	84,551.905
2002	7	1,059,920,197.306	105.623	0.000	43,597.827	18,216.421	50,137.703	111,951.951
2002	8	1,104,253,201.766	105.801	0.000	47,151.402	18,104.729	51,574.961	116,831.093
2002	9	968,766,191.465	105.92	0.000	31,203.457	18,453.685	52,954.573	102,611.715
2002	10	760,458,812.640	105.882	1,751.874	13,262.683	17,024.903	48,479.439	80,518.900
2002	11	801,944,236.619	105.858	12,751.546	824.777	17,465.297	53,850.593	84,892.213
2002	12	1,043,881,978.559	106.057	25,344.206	0.000	21,203.993	64,162.792	110,710.991
2003	1	1,186,250,594.818	106.335	31,597.255	0.000	22,977.851	71,564.850	126,139.957
2003	2	1,068,111,870.704	109.269	40,363.456	0.000	19,047.151	57,300.909	116,711.516
2003	3	986,307,683.629	106.356	33,789.030	0.000	18,340.285	52,770.425	104,899.740
2003	4	827,112,182.263	106.22	14,074.885	568.168	17,674.900	55,537.903	87,855.856
2003	5	722,545,003.997	106.335	5,563.935	1,376.566	16,901.440	52,989.882	76,831.823
2003	6	764,532,039.877	106.227	1,459.377	2,568.469	17,633.787	59,552.312	81,213.945
2003	7	937,577,302.322	106.284	76.563	24,960.440	18,347.962	56,264.502	99,649.466
2003	8	962,816,384.101	106.347	0.000	26,895.206	18,242.477	57,254.951	102,392.634
2003	9	945,599,179.387	106.262	5.031	28,491.203	18,395.300	53,589.726	100,481.260
2003	10	742,915,779.975	106.388	3,352.427	4,694.146	17,057.882	53,932.869	79,037.324
2003	11	740,980,400.083	106.378	8,503.771	139.464	17,382.785	52,797.993	78,824.013
2003	12	1,014,554,340.890	106.568	19,450.597	0.000	21,359.751	67,308.679	108,119.027
2004	1	1,174,563,971.187	106.759	29,493.044	0.000	23,113.617	72,788.614	125,395.275
2004	2	1,098,678,660.084	106.753	41,914.826	0.000	18,782.212	56,590.205	117,287.243
2004	3	936,696,806.273	106.991	26,846.123	0.000	18,197.478	55,174.526	100,218.128

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2004	4	820,473,937.772	106.898	14,399.381	840.141	17,864.244	54,603.257	87,707.023
2004	5	751,130,986.377	106.805	5,085.372	7,702.849	17,255.445	50,180.878	80,224.545
2004	6	794,835,791.185	107.004	572.386	14,423.292	17,824.333	52,230.597	85,050.609
2004	7	889,785,125.976	106.965	5.186	21,589.035	18,265.772	55,315.874	95,175.866
2004	8	889,347,654.975	107.227	0.000	21,685.425	18,323.352	55,353.304	95,362.081
2004	9	883,562,008.848	107.146	0.000	18,129.858	18,635.894	57,904.383	94,670.135
2004	10	756,265,281.424	107.418	2,042.357	6,438.711	17,175.499	55,579.937	81,236.504
2004	11	739,342,350.894	107.457	7,163.441	383.957	17,576.226	54,323.887	79,447.511
2004	12	1,012,149,854.943	107.544	19,708.130	27.712	21,586.209	67,528.593	108,850.644
2005	1	1,205,164,592.518	107.514	33,723.647	0.000	23,102.027	72,746.392	129,572.066
2005	2	1,059,188,243.796	106.548	36,564.933	0.000	18,606.946	57,682.510	112,854.389
2005	3	1,063,236,724.419	108.451	30,949.058	0.000	19,099.444	65,260.583	115,309.086
2005	4	833,305,825.692	107.97	17,711.103	283.845	17,951.274	54,025.808	89,972.030
2005	5	708,643,783.407	107.575	6,318.435	1,757.267	16,781.393	51,375.260	76,232.355
2005	6	836,340,538.934	107.694	924.914	12,143.956	17,747.959	59,252.029	90,068.858
2005	7	1,089,766,745.366	107.582	0.000	38,701.944	18,229.587	60,307.754	117,239.286
2005	8	1,136,481,652.779	107.891	0.000	41,222.776	18,230.456	63,162.909	122,616.142
2005	9	1,025,977,317.252	107.703	0.000	27,157.427	18,803.741	64,539.667	110,500.835
2005	10	775,294,503.540	107.924	1,254.439	13,051.507	17,292.242	52,074.696	83,672.884
2005	11	760,631,932.711	107.714	8,274.527	1,088.422	17,797.131	54,770.628	81,930.708
2005	12	1,054,317,442.258	108.111	28,335.056	0.000	21,150.538	64,497.719	113,983.313
2006	1	1,196,487,149.166	108.242	30,751.243	0.000	23,840.070	74,918.849	129,510.162
2006	2	1,003,937,408.889	107.012	25,616.532	0.000	19,488.534	62,328.285	107,433.350
2006	3	959,229,583.007	109.786	29,378.107	0.000	18,434.002	57,497.869	105,309.979
2006	4	810,137,860.900	108.167	16,743.726	156.528	17,624.665	53,105.263	87,630.182
2006	5	707,508,596.650	108.298	3,982.412	281.947	17,054.518	55,302.889	76,621.766
2006	6	831,644,879.067	108.242	2,060.784	10,984.306	17,771.047	59,202.768	90,018.905
2006	7	994,762,697.144	108.233	0.000	23,410.952	18,602.374	65,652.825	107,666.151
2006	8	1,116,796,352.920	108.58	0.000	38,476.965	18,233.188	64,551.595	121,261.748
2006	9	904,939,991.143	108.384	83.463	16,390.833	18,462.857	63,143.863	98,081.016
2006	10	749,352,735.911	108.611	2,938.431	1,867.955	17,370.388	59,211.176	81,387.950
2006	11	814,506,559.236	108.473	13,408.833	71.918	17,838.687	57,032.531	88,351.970
2006	12	1,017,636,584.692	108.57	19,601.111	0.000	21,026.862	69,856.832	110,484.804

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2007	1	1,139,730,073.763	108.726	22,948.733	0.000	23,258.181	77,711.378	123,918.292
2007	2	1,138,443,929.658	108.783	40,277.583	0.000	18,986.220	64,579.542	123,843.346
2007	3	1,026,768,486.093	109.082	36,333.530	43.490	17,748.784	57,876.156	112,001.960
2007	4	866,172,436.268	108.933	14,550.312	1,148.086	17,608.949	61,047.416	94,354.762
2007	5	724,550,568.511	108.793	5,628.869	2,802.860	16,465.897	53,928.404	78,826.030
2007	6	859,662,901.139	108.971	348.499	17,914.594	17,220.130	58,195.103	93,678.326
2007	7	1,004,454,660.643	108.912	0.000	30,392.325	17,921.282	61,083.559	109,397.166
2007	8	1,014,547,769.474	109.055	0.000	32,298.508	17,598.339	60,744.660	110,641.507
2007	9	1,024,137,204.838	108.881	72.691	27,724.592	18,282.832	65,428.968	111,509.083
2007	10	766,541,329.517	109.002	747.092	14,752.640	16,469.183	51,585.624	83,554.538
2007	11	789,927,004.618	108.911	8,076.524	2,997.923	17,433.335	57,523.957	86,031.740
2007	12	1,079,815,227.756	109.064	25,523.671	0.000	20,761.536	71,483.761	117,768.968
2008	1	1,236,344,007.395	109.268	32,126.400	0.000	22,677.808	80,288.629	135,092.837
2008	2	1,159,432,869.228	109.458	39,583.434	0.000	18,547.556	68,778.213	126,909.203
2008	3	1,052,860,215.742	109.39	36,178.839	0.000	17,250.296	61,743.243	115,172.379
2008	4	898,644,054.131	109.143	20,114.362	28.366	16,863.227	61,074.752	98,080.708
2008	5	718,605,891.194	109.112	6,046.436	724.792	16,064.847	55,572.451	78,408.526
2008	6	798,943,040.991	109.096	1,765.398	11,653.519	16,641.622	57,100.951	87,161.490
2008	7	935,203,630.103	109.198	0.676	24,110.196	17,470.450	60,541.044	102,122.366
2008	8	1,038,440,376.128	109.218	0.000	30,199.065	17,422.041	65,795.275	113,416.381
2008	9	907,739,835.761	109.231	0.000	19,283.243	17,366.235	62,503.852	99,153.330
2008	10	746,127,998.389	109.267	1,345.325	5,921.747	16,203.259	58,056.838	81,527.168
2008	11	804,556,451.539	109.005	10,290.683	645.093	16,870.383	59,894.517	87,700.676
2008	12	1,103,181,096.311	109.312	30,062.779	0.000	19,793.232	70,734.921	120,590.932
2009	1	1,345,799,588.628	109.39	39,715.971	0.000	21,930.569	85,570.478	147,217.017
2009	2	1,225,423,049.753	108.999	45,179.281	0.000	18,004.019	70,386.587	133,569.887
2009	3	1,013,213,707.227	110.263	29,291.454	0.000	16,836.631	65,591.898	111,719.983
2009	4	879,818,293.173	109.396	15,879.270	55.617	16,467.769	63,845.946	96,248.602
2009	5	745,954,507.600	109.271	6,132.351	1,739.958	15,712.117	57,926.769	81,511.195
2009	6	749,217,553.757	109.196	928.620	7,169.051	16,125.054	57,588.835	81,811.560
2009	7	893,196,804.322	109.21	0.665	21,246.391	16,769.178	59,529.789	97,546.023
2009	8	901,807,986.079	109.19	0.000	20,734.285	16,571.062	61,163.067	98,468.414
2009	9	877,253,929.003	109.188	0.000	14,396.666	17,006.790	64,382.146	95,785.602

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2009	10	769,451,286.420	109.179	3,850.484	3,257.548	15,751.963	61,147.926	84,007.922
2009	11	811,343,351.690	109.133	9,101.727	0.000	16,359.664	63,082.943	88,544.334
2009	12	1,048,682,883.558	109.351	21,200.463	0.000	19,402.628	74,071.431	114,674.522
2010	1	1,286,371,326.551	109.502	37,580.183	0.000	18,986.035	84,294.015	140,860.233
2010	2	1,165,645,621.957	107.628	37,597.881	0.000	15,521.323	72,336.903	125,456.107
2010	3	987,035,416.480	111.53	29,620.345	0.000	14,765.952	65,697.763	110,084.060
2010	4	805,988,821.194	109.314	10,945.548	1,546.191	14,323.920	61,290.204	88,105.862
2010	5	710,018,857.902	109.185	4,066.128	1,632.229	13,540.705	58,284.346	77,523.409
2010	6	845,593,019.960	109.369	873.413	16,279.606	14,140.494	61,188.149	92,481.663
2010	7	1,086,446,676.914	109.296	0.000	32,736.163	14,752.166	71,255.947	118,744.276
2010	8	1,195,390,336.342	109.234	0.000	42,684.941	14,640.683	73,251.644	130,577.268
2010	9	1,001,892,176.429	109.234	0.000	28,430.433	14,729.242	66,281.014	109,440.690
2010	10	728,331,286.996	109.301	1,572.943	6,621.107	13,663.166	57,750.122	79,607.338
2010	11	750,701,170.857	109.407	8,345.289	643.111	14,112.864	59,030.698	82,131.963
2010	12	1,083,550,540.938	109.347	25,415.412	0.000	16,883.357	76,184.232	118,483.001
2011	1	1,296,404,037.911	109.413	37,469.304	0.000	17,625.186	86,748.965	141,843.455
2011	2	1,140,422,579.289	107.045	40,541.066	0.000	13,964.338	67,571.131	122,076.535
2011	3	966,631,797.597	112.172	29,576.324	0.000	13,520.715	65,331.983	108,429.022
2011	4	862,388,665.488	109.171	18,204.448	433.892	12,898.849	62,610.643	94,147.833
2011	5	777,410,500.275	109.14	6,492.135	2,177.100	12,598.411	63,578.937	84,846.582
2011	6	845,086,938.592	109.123	856.475	16,130.672	13,020.705	62,210.570	92,218.422
2011	7	1,035,939,351.393	108.972	0.000	30,531.193	13,807.419	68,549.771	112,888.383
2011	8	1,148,836,785.380	109.114	0.000	45,088.664	13,443.295	66,822.218	125,354.177
2011	9	929,914,042.850	108.938	148.039	22,967.635	13,569.411	64,617.890	101,302.976
2011	10	713,684,429.994	108.876	1,717.890	3,700.379	12,590.695	59,694.142	77,703.106
2011	11	787,386,590.232	109.025	7,665.794	613.772	13,083.642	64,481.614	85,844.823
2011	12	991,700,074.341	108.957	17,706.549	0.000	15,365.438	74,980.678	108,052.665
2012	1	1,120,010,835.984	109.081	26,365.443	0.000	16,978.815	78,827.644	122,171.902
2012	2	1,024,449,415.041	109.153	29,740.783	0.000	13,898.310	68,182.634	111,821.727
2012	3	920,339,902.246	109.049	21,026.499	1,381.754	13,084.980	64,868.913	100,362.146
2012	4	735,384,751.627	108.969	6,099.645	4,138.587	12,752.072	57,143.838	80,134.141
2012	5	728,447,599.916	109.017	5,087.874	2,839.884	12,210.204	59,275.210	79,413.172
2012	6	854,064,781.826	108.904	337.301	18,027.638	12,680.427	61,965.706	93,011.071

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2012	7	1,230,752,857.012	109.03	30.181	45,743.359	13,414.684	75,000.760	134,188.984
2012	8	1,111,558,927.033	109.118	0.000	40,348.490	13,081.759	67,860.838	121,291.087
2012	9	923,843,757.458	108.946	58.225	20,770.450	13,293.652	66,526.755	100,649.082
2012	10	725,989,890.094	109.002	2,831.769	3,443.285	12,283.017	60,576.279	79,134.350
2012	11	805,774,715.091	108.982	11,259.582	802.035	12,864.930	62,888.393	87,814.940
2012	12	977,235,566.159	108.98	17,440.468	0.000	15,059.205	73,999.459	106,499.132
2013	1	1,154,307,824.623	109.296	28,350.647	0.000	15,470.154	82,340.428	126,161.228
2013	2	1,073,768,616.388	109.178	33,446.987	0.000	12,502.846	71,282.076	117,231.910
2013	3	1,019,829,304.264	109.165	30,211.653	0.000	11,793.318	69,324.695	111,329.666
2013	4	943,236,792.453	109.18	21,708.630	0.000	11,683.848	69,590.115	102,982.593
2013	5	732,370,481.790	109.031	6,236.315	2,984.208	10,904.316	59,726.246	79,851.086
2013	6	787,846,809.603	109.093	1,195.699	12,373.539	11,505.595	60,873.739	85,948.572
2013	7	986,982,148.751	109.068	17,208	27,315.326	12,055.195	68,260.440	107,648.169
2013	8	928,774,694.641	109.052	0.000	22,301.403	11,864.157	67,119.178	101,284.738
2013	9	949,369,786.219	108.99	1,917	25,148.365	12,010.547	66,310.983	103,471.813
2013	10	722,671,698.356	108.976	834.346	9,349.248	11,068.103	57,502.174	78,753.871
2013	11	803,457,209.396	109.066	10,137.157	845.239	11,649.966	64,997.503	87,629.864
2013	12	1,053,087,980.593	109.24	26,200.100	0.000	13,616.978	75,222.253	115,039.331
2014	1	1,326,618,927.774	109.268	40,370.544	0.000	14,990.703	89,595.751	144,956.997
2014	2	1,200,185,981.557	109.199	47,312.771	0.000	11,989.511	71,756.827	131,059.109
2014	3	1,118,070,611.700	109.302	40,849.708	0.000	11,367.833	69,989.812	122,207.354
2014	4	900,334,873.149	109.104	21,973.173	79.833	10,979.921	65,197.210	98,230.136
2014	5	756,265,244.854	108.922	5,948.309	2,317.442	10,709.404	63,398.769	82,373.923
2014	6	784,428,629.192	108.819	1,357.544	14,937.229	10,883.027	58,182.939	85,360.739
2014	7	931,250,029.886	108.747	0.000	25,593.477	11,572.499	64,104.671	101,270.647
2014	8	856,671,459.190	108.711	0.000	19,176.626	11,300.150	62,652.835	93,129.611
2014	9	929,276,351.128	108.724	130.035	26,219.179	11,500.540	63,184.887	101,034.642
2014	10	705,678,457.420	108.701	1,869.167	3,941.986	10,623.995	60,272.806	76,707.954
2014	11	771,788,322.712	108.741	11,045.352	103.740	11,004.646	61,771.297	83,925.034
2014	12	1,085,922,255.580	108.921	27,367.509	0.000	13,144.988	77,767.241	118,279.738
2015	1	1,215,289,689.635	109.065	34,359.695	0.000	13,711.844	84,474.030	132,545.570
2015	2	1,116,428,804.457	109.122	41,328.964	0.000	11,106.652	69,391.328	121,826.944
2015	3	1,070,580,325.257	109.206	43,161.671	0.000	10,390.013	63,362.112	116,913.795

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2015	4	842,916,017.920	108.928	17,641.652	32.760	10,268.246	63,874.499	91,817.156
2015	5	699,854,790.694	108.836	5,392.905	3,053.931	9,335.003	58,387.558	76,169.396
2015	6	772,375,651.502	108.787	888.917	13,579.455	10,089.746	59,466.312	84,024.430
2015	7	868,795,651.215	108.858	8.182	18,912.390	10,610.012	65,044.773	94,575.357
2015	8	1,003,984,951.907	108.851	0.000	30,518.146	10,540.689	68,225.930	109,284.766
2015	9	919,801,987.108	108.902	8.931	23,099.990	10,627.047	66,432.309	100,168.276
2015	10	721,888,861.334	108.873	1,360.821	6,784.466	9,786.532	60,662.387	78,594.206
2015	11	695,534,513.144	108.944	6,773.994	160.075	9,389.145	59,451.097	75,774.312
2015	12	935,311,398.398	108.989	17,640.380	0.000	12,205.268	72,093.007	101,938.654
2016	1	1,105,285,507.353	109.076	28,019.094	0.000	12,066.454	80,474.574	120,560.122
2016	2	1,031,741,823.842	109.22	37,898.922	0.000	10,630.649	64,157.271	112,686.842
2016	3	885,542,114.851	109.237	27,340.918	0.000	9,930.532	59,462.514	96,733.964
2016	4	804,870,566.232	106.935	15,072.461	14.014	9,700.998	61,281.360	86,068.834
2016	5	694,115,156.127	109.078	6,808.133	575.081	8,970.476	59,359.003	75,712.693
2016	6	810,850,967.310	109.117	1,358.969	13,859.010	9,723.393	63,536.252	88,477.625
2016	7	972,112,558.157	109.188	0.000	24,545.752	11,046.889	70,550.385	106,143.026
2016	8	1,099,025,995.788	109.21	0.000	36,265.682	10,958.649	72,800.298	120,024.629
2016	9	1,006,612,655.748	109.231	0.000	27,907.569	10,131.416	71,914.322	109,953.307
2016	10	749,414,308.234	109.112	568.454	9,710.628	9,416.536	62,074.475	81,770.094
2016	11	688,102,367.535	109.312	6,258.671	933.318	9,069.091	58,956.767	75,217.846
2016	12	959,770,482.071	109.486	23,581.327	12.129	11,589.044	69,898.931	105,081.431
2017	1	1,178,463,854.597	109.599	37,706.506	0.000	11,622.308	79,829.646	129,158.460
2017	2	961,585,726.663	109.645	30,083.916	0.000	10,282.239	65,066.913	105,433.067
2017	3	842,779,232.962	109.799	22,641.439	0.000	9,578.205	60,316.673	92,536.317
2017	4	795,092,244.928	109.567	17,278.014	250.537	9,387.334	60,199.987	87,115.872
2017	5	665,399,238.989	109.591	5,500.457	2,143.167	8,528.509	56,749.635	72,921.768
2017	6	775,481,632.802	109.652	1,234.547	10,112.382	9,429.869	64,256.313	85,033.112
2017	7	942,358,732.619	109.675	0.000	22,791.237	10,675.540	69,886.417	103,353.194
2017	8	960,941,830.149	109.696	0.000	22,447.412	10,652.903	72,311.160	105,411.475
2017	9	826,236,023.317	109.79	0.000	11,340.025	9,879.059	69,493.369	90,712.453
2017	10	759,205,316.891	109.801	271.261	13,006.503	9,067.801	61,015.938	83,361.503
2017	11	741,139,467.361	109.868	11,571.321	743.308	8,759.855	60,353.028	81,427.511
2017	12	964,218,800.560	110.018	24,312.655	0.000	11,209.598	70,559.170	106,081.424

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2018	1	1,232,818,579.572	110.164	45,414.012	0.000	11,422.184	78,976.030	135,812.226
2018	2	1,015,580,574.893	110.177	39,522.724	0.000	10,018.262	62,352.635	111,893.621
2018	3	904,848,771.232	110.151	29,611.481	0.000	9,377.463	60,681.052	99,669.997
2018	4	898,592,927.826	110.15	25,175.903	0.000	9,342.274	64,461.834	98,980.011
2018	5	730,010,954.474	110.092	10,328.820	2,086.723	8,514.317	59,438.506	80,368.366
2018	6	836,895,045.241	110.076	221.382	15,308.725	9,176.014	67,415.938	92,122.059
2018	7	1,051,902,159.917	110.282	0.000	28,233.560	10,515.188	77,257.127	116,005.874
2018	8	990,472,815.684	110.229	0.000	27,739.292	10,403.700	71,035.836	109,178.828
2018	9	975,658,702.421	110.159	0.000	26,330.167	9,621.928	71,525.492	107,477.587
2018	10	729,865,610.605	110.284	2,218.222	10,537.769	8,527.704	59,208.804	80,492.499
2018	11	755,292,380.728	110.168	15,639.031	1,135.693	8,539.592	57,894.735	83,209.051
2018	12	1,012,024,307.698	110.212	29,560.164	0.000	11,008.609	70,968.451	111,537.223
2019	1	1,070,080,301.493	110.384	30,134.312	0.000	10,984.226	77,001.206	118,119.744
2019	2	1,065,414,011.533	110.26456	37,885.712	0.000	9,687.993	69,903.707	117,477.412
2019	3	956,512,667.416	110.37708	31,003.459	72.496	9,068.362	65,432.760	105,577.077
2019	4	829,819,199.520	110.27626	17,985.882	456.818	8,893.757	64,172.900	91,509.357
2019	5	685,175,524.104	110.19684	6,341.829	2,304.495	8,138.014	58,719.839	75,504.178
2019	6	770,274,400.617	110.21313	1,154.014	11,026.014	8,850.871	63,863.454	84,894.353
2019	7	994,639,573.311	110.17316	35.353	26,463.394	10,113.060	72,970.782	109,582.589
2019	8	1,010,357,252.420	110.23271	0.000	29,073.408	10,017.773	72,283.235	111,374.415
2019	9	884,254,776.009	110.15826	44.263	21,211.103	9,269.382	66,883.219	97,407.966
2019	10	688,317,026.287	110.1927	2,087.744	6,310.072	8,210.054	59,239.640	75,847.509
2019	11	707,460,864.502	110.17388	10,180.761	589.327	8,176.450	58,997.172	77,943.710
2019	12	999,662,083.539	110.09016	23,758.511	1.968	10,503.619	75,788.861	110,052.960
2020	1	1,127,119,213.300	110.28455	34,774.183	0.000	10,263.244	79,266.403	124,303.830
2020	2	1,052,123,562.655	110.31973	37,030.725	0.000	9,060.677	69,978.582	116,069.984
2020	3	944,797,585.290	110.43016	30,299.950	71.307	8,478.746	65,484.141	104,334.144
2020	4	820,744,008.046	110.32713	17,573.857	449.247	8,314.169	64,213.057	90,550.330
2020	5	678,436,854.579	110.24676	6,196.108	2,266.169	7,604.114	58,729.071	74,795.462
2020	6	763,219,735.230	110.26183	1,127.387	10,841.811	8,274.915	63,909.890	84,154.002
2020	7	985,531,625.849	110.22056	34.531	26,018.013	9,465.803	73,107.504	108,625.851
2020	8	1,001,060,684.865	110.27896	0.000	28,585.045	9,378.403	72,432.486	110,395.934
2020	9	875,975,484.836	110.20487	43.241	20,856.978	8,670.606	66,965.941	96,536.766

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2020	10	681,955,362.061	110.23952	2,039.989	6,205.905	7,672.821	59,259.714	75,178.429
2020	11	700,196,120.868	110.22103	9,950.255	579.709	7,640.017	59,006.359	77,176.339
2020	12	990,265,782.057	110.13713	23,295.014	1.940	9,832.036	75,936.045	109,065.036
2021	1	1,117,099,816.763	110.33587	34,209.834	0.000	9,845.979	79,200.364	123,256.178
2021	2	1,042,469,657.052	110.37273	36,440.232	0.000	8,693.122	69,926.863	115,060.217
2021	3	936,401,408.833	110.48474	29,824.764	70.566	8,133.935	65,428.804	103,458.070
2021	4	814,306,673.012	110.3831	17,303.937	444.701	7,976.296	64,160.761	89,885.695
2021	5	673,666,688.086	110.30556	6,103.107	2,243.905	7,293.529	58,668.637	74,309.178
2021	6	758,418,341.350	110.32366	1,110.903	10,738.892	7,941.425	63,880.264	83,671.484
2021	7	979,695,350.434	110.28603	34.036	25,777.856	9,092.819	73,141.996	108,046.707
2021	8	995,253,989.971	110.34897	0.000	28,330.717	9,010.965	72,483.566	109,825.248
2021	9	870,732,227.362	110.2791	42.647	20,675.871	8,326.585	66,978.462	96,023.565
2021	10	677,702,903.145	110.31809	2,012.309	6,153.012	7,363.786	59,233.780	74,762.887
2021	11	695,309,011.063	110.30509	9,816.643	574.854	7,331.396	58,973.233	76,696.125
2021	12	983,992,748.472	110.2268	23,028.143	1.927	9,446.369	75,985.929	108,462.369
2022	1	1,110,540,799.328	110.43534	33,884.532	0.000	9,608.585	79,149.837	122,642.953
2022	2	1,036,219,687.774	110.47961	36,105.090	0.000	8,484.637	69,891.419	114,481.147
2022	3	930,952,757.751	110.59806	29,558.289	70.267	7,938.700	65,394.313	102,961.568
2022	4	810,082,801.676	110.50369	17,155.211	442.940	7,785.624	64,133.361	89,517.136
2022	5	670,478,605.963	110.43252	6,052.047	2,235.476	7,118.351	58,636.765	74,042.640
2022	6	755,293,182.722	110.45821	1,101.823	10,700.265	7,753.933	63,872.314	83,428.336
2022	7	976,144,638.558	110.42793	33.767	25,690.438	8,884.465	73,184.966	107,793.636
2022	8	991,656,153.638	110.49721	0.000	28,234.693	8,805.559	72,534.983	109,575.235
2022	9	867,340,766.552	110.43437	42.314	20,606.770	8,133.791	67,001.358	95,784.234
2022	10	674,738,068.155	110.4809	1,996.710	6,132.540	7,189.941	59,226.478	74,545.668
2022	11	691,842,721.939	110.47392	9,740.843	572.939	7,157.505	58,959.291	76,430.579
2022	12	979,025,034.634	110.40145	22,849.950	1.921	9,227.037	76,006.875	108,085.783
2023	1	1,104,645,959.314	110.6205	33,614.629	0.000	9,453.408	79,128.452	122,196.489
2023	2	1,030,435,219.841	110.67074	35,815.711	0.000	8,347.949	69,875.365	114,039.025
2023	3	925,782,906.656	110.79405	29,318.665	70.071	7,809.997	65,372.509	102,571.242
2023	4	805,977,242.600	110.70336	17,013.900	441.644	7,659.132	64,109.712	89,224.388
2023	5	667,379,391.691	110.63555	6,001.931	2,228.777	7,001.349	58,603.831	73,835.887
2023	6	752,239,923.391	110.66268	1,092.625	10,667.299	7,628.836	63,856.128	83,244.888

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2023	7	972,573,901.967	110.6334	33.484	25,609.831	8,746.282	73,209.556	107,599.153
2023	8	988,012,962.380	110.70356	0.000	28,143.424	8,669.155	72,563.971	109,376.551
2023	9	863,910,515.302	110.63919	41.953	20,538.547	8,004.158	66,997.704	95,582.362
2023	10	671,784,768.518	110.68379	1,979.701	6,112.228	7,071.632	59,192.125	74,355.686
2023	11	688,351,309.615	110.67443	9,658.050	571.039	7,038.553	58,915.244	76,182.886
2023	12	973,800,871.544	110.59946	22,646.659	1.914	9,076.840	75,976.440	107,701.852
2024	1	1,098,373,534.002	110.81888	33,307.933	0.000	9,326.319	79,086.275	121,720.526
2024	2	1,024,276,171.049	110.86602	35,485.727	0.000	8,235.496	69,836.201	113,557.424
2024	3	920,365,939.432	110.98644	29,047.425	69.856	7,703.756	65,327.101	102,148.137
2024	4	801,779,316.512	110.89213	16,855.030	440.263	7,554.479	64,061.244	88,911.015
2024	5	664,297,430.522	110.82014	5,945.618	2,221.718	6,904.100	58,546.098	73,617.535
2024	6	749,281,155.557	110.84335	1,082.365	10,633.440	7,525.080	63,811.948	83,052.833
2024	7	969,165,247.693	110.8109	33.170	25,528.507	8,632.198	73,200.196	107,394.070
2024	8	984,609,410.741	110.87751	0.000	28,054.903	8,556.642	72,559.490	109,171.035
2024	9	860,741,359.671	110.81135	41.563	20,474.954	7,897.064	66,966.334	95,379.915
2024	10	669,011,238.186	110.85404	1,961.325	6,093.397	6,973.477	59,134.401	74,162.600
2024	11	684,992,306.183	110.84347	9,568.887	569.304	6,939.811	58,848.920	75,926.922
2024	12	968,821,381.930	110.76711	22,436.286	1.908	8,953.188	75,922.164	107,313.546
2025	1	1,092,443,394.685	110.98918	33,002.329	0.000	9,244.693	79,002.378	121,249.400
2025	2	1,018,533,598.332	111.03709	35,164.575	0.000	8,163.930	69,766.500	113,095.005
2025	3	915,356,492.562	111.15635	28,785.560	69.713	7,636.151	65,256.263	101,747.687
2025	4	797,998,777.632	111.06131	16,705.339	439.407	7,488.401	63,993.639	88,626.787
2025	5	661,588,006.036	110.98874	5,893.053	2,217.462	6,842.693	58,475.610	73,428.819
2025	6	746,790,622.692	111.01194	1,072.891	10,613.766	7,460.533	63,755.483	82,902.674
2025	7	966,433,693.501	110.97892	32.883	25,483.403	8,562.754	73,174.730	107,253.770
2025	8	981,882,788.886	111.04575	0.000	28,005.908	8,488.429	72,539.573	109,033.910
2025	9	858,141,772.088	110.9791	41.205	20,439.556	7,831.279	66,923.764	95,235.804
2025	10	666,625,324.665	111.02113	1,944.481	6,082.869	6,912.237	59,069.911	74,009.498
2025	11	681,995,808.283	111.00969	9,486.733	568.320	6,877.765	58,775.323	75,708.142
2025	12	964,378,024.854	110.93262	22,245.572	1.905	8,876.614	75,856.891	106,980.982
2026	1	1,087,231,994.693	111.15872	32,731.578	0.000	9,181.696	78,942.044	120,855.318
2026	2	1,013,436,229.593	111.20671	34,876.932	0.000	8,108.553	69,715.421	112,700.906
2026	3	910,927,707.498	111.32543	28,551.420	69.659	7,583.886	65,204.451	101,409.416

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2026	4	794,662,272.168	111.22952	16,570.114	439.079	7,437.224	63,943.489	88,389.906
2026	5	659,246,178.711	111.15673	5,845.559	2,215.858	6,795.149	58,423.082	73,279.649
2026	6	744,697,479.272	111.17913	1,064.198	10,605.799	7,410.562	63,714.257	82,794.816
2026	7	964,195,182.483	111.14517	32.616	25,463.904	8,509.182	73,159.932	107,165.633
2026	8	979,669,757.229	111.21008	0.000	27,984.938	8,435.738	72,528.477	108,949.153
2026	9	856,000,855.896	111.14223	40.873	20,424.785	7,780.165	66,892.019	95,137.842
2026	10	664,584,322.385	111.18286	1,928.910	6,078.751	6,864.383	59,018.341	73,890.385
2026	11	679,361,085.977	111.17016	9,411.421	567.964	6,829.226	58,716.067	75,524.679
2026	12	960,517,545.938	111.09243	22,076.184	1.904	8,817.486	75,810.653	106,706.227
2027	1	1,082,713,480.987	111.31984	32,489.325	0.000	9,129.108	78,909.056	120,527.489
2027	2	1,009,001,804.631	111.36738	34,619.001	0.000	8,062.369	69,688.515	112,369.885
2027	3	907,101,167.993	111.48394	28,341.259	69.687	7,540.305	65,175.962	101,127.213
2027	4	791,814,366.120	111.38616	16,447.544	439.240	7,394.522	63,915.853	88,197.158
2027	5	657,329,688.919	111.3103	5,802.548	2,216.722	6,755.545	58,392.750	73,167.565
2027	6	743,121,163.180	111.32951	1,056.407	10,610.145	7,369.053	63,695.709	82,731.314
2027	7	962,631,818.548	111.29291	32.376	25,473.432	8,464.436	73,163.851	107,134.095
2027	8	978,138,590.684	111.35532	0.000	27,995.091	8,391.597	72,534.248	108,920.935
2027	9	854,494,815.188	111.28372	40.576	20,433.437	7,737.438	66,879.910	95,091.361
2027	10	663,000,689.995	111.32143	1,914.847	6,081.136	6,824.181	58,986.018	73,806.183
2027	11	677,177,166.882	111.30546	9,342.732	568.177	6,788.138	58,674.471	75,373.519
2027	12	957,049,012.879	111.22349	21,909.907	1.904	8,765.798	75,768.720	106,446.329
2028	1	1,078,580,921.045	111.4511	32,249.585	0.000	9,077.017	78,882.430	120,209.031
2028	2	1,004,934,249.137	111.49522	34,363.130	0.000	8,016.455	69,665.777	112,045.361
2028	3	903,597,081.984	111.60896	28,131.530	69.750	7,496.970	65,151.279	100,849.530
2028	4	789,268,330.133	111.50774	16,325.698	439.632	7,352.079	63,892.122	88,009.531
2028	5	655,673,736.333	111.42832	5,759.370	2,218.652	6,716.229	58,366.369	73,060.621
2028	6	741,845,132.505	111.44412	1,048.529	10,619.172	7,327.557	63,679.018	82,674.276
2028	7	961,477,721.048	111.40379	32.134	25,494.640	8,419.253	73,166.235	107,112.262
2028	8	977,025,885.019	111.46241	0.000	28,017.922	8,346.836	72,536.904	108,901.662
2028	9	853,324,510.892	111.38757	40.273	20,449.899	7,694.211	66,865.365	95,049.747
2028	10	661,663,386.298	111.42219	1,900.543	6,085.984	6,783.808	58,953.647	73,723.982
2028	11	675,216,475.412	111.40265	9,272.868	568.623	6,746.859	58,632.551	75,220.902
2028	12	953,993,236.038	111.31808	21,749.384	1.906	8,714.384	75,731.022	106,196.695

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2029	1	1,075,595,576.969	111.54624	32,000.285	0.000	9,038.976	78,939.379	119,978.640
2029	2	1,001,861,420.837	111.58782	34,097.217	0.000	7,982.795	69,715.518	111,795.531
2029	3	901,037,457.156	111.69844	27,913.559	69.854	7,465.264	65,195.804	100,644.481
2029	4	787,644,493.815	111.59398	16,199.130	440.280	7,321.006	63,935.966	87,896.382
2029	5	654,888,156.289	111.51147	5,714.684	2,221.906	6,687.503	58,403.448	73,027.541
2029	6	741,466,646.337	111.52461	1,040.386	10,634.651	7,296.324	63,720.416	82,691.777
2029	7	961,309,346.561	111.48081	31.884	25,531.356	8,384.100	73,220.201	107,167.541
2029	8	976,902,436.684	111.53612	0.000	28,057.678	8,311.968	72,590.262	108,959.909
2029	9	853,138,860.683	111.45841	39.958	20,478.487	7,661.498	66,909.555	95,089.498
2029	10	661,224,064.375	111.48971	1,885.628	6,094.323	6,754.159	58,985.568	73,719.678
2029	11	674,156,997.469	111.46785	9,199.895	569.388	6,716.948	58,660.599	75,146.830
2029	12	951,892,292.056	111.37973	21,576.932	1.909	8,675.716	75,766.953	106,021.510
2030	1	1,071,188,049.489	111.60818	31,740.992	0.000	8,657.678	79,154.679	119,553.350
2030	2	997,585,953.516	111.64866	33,822.251	0.000	7,646.561	69,910.326	111,379.138
2030	3	897,365,192.768	111.75745	27,689.570	69.963	7,150.720	65,376.989	100,287.242
2030	4	784,957,243.528	111.65042	16,069.743	440.976	7,012.924	64,117.162	87,640.805
2030	5	653,158,981.161	111.56566	5,669.297	2,225.471	6,406.110	58,569.234	72,870.113
2030	6	740,272,184.197	111.5772	1,032.170	10,651.986	6,991.554	63,921.784	82,597.495
2030	7	960,436,394.398	111.53232	31.634	25,573.681	8,036.742	73,477.639	107,119.696
2030	8	976,095,363.860	111.58701	0.000	28,105.115	7,967.734	72,846.715	108,919.563
2030	9	852,157,424.054	111.50935	39.649	20,514.026	7,342.201	67,127.646	95,023.522
2030	10	659,868,938.326	111.54032	1,871.171	6,105.160	6,470.226	59,155.433	73,601.991
2030	11	672,103,307.075	111.51803	9,129.970	570.426	6,433.312	58,817.932	74,951.640
2030	12	948,743,174.487	111.4306	21,416.665	1.912	8,311.429	75,989.019	105,719.025
2031	1	1,067,509,680.237	111.66292	31,507.373	0.000	8,313.143	79,380.737	119,201.253
2031	2	993,982,970.512	111.70399	33,573.993	0.000	7,342.797	70,115.070	111,031.859
2031	3	894,286,669.795	111.81346	27,486.914	70.186	6,866.755	65,569.431	99,993.286
2031	4	782,767,811.880	111.70749	15,952.535	442.392	6,734.979	64,311.126	87,441.031
2031	5	651,853,870.216	111.62247	5,628.035	2,232.636	6,152.427	58,748.439	72,761.537
2031	6	739,580,645.281	111.63376	1,024.677	10,686.397	6,716.492	64,134.603	82,562.170
2031	7	960,245,409.766	111.58851	31.405	25,656.532	7,722.606	73,741.807	107,152.350
2031	8	975,981,098.533	111.64261	0.000	28,196.384	7,656.275	73,108.417	108,961.076
2031	9	851,773,573.891	111.56305	39.363	20,580.689	7,053.526	67,352.879	95,026.457

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2031	10	658,922,419.376	111.59237	1,857.685	6,125.017	6,213.774	59,334.237	73,530.713
2031	11	670,419,274.981	111.56869	9,064.303	572.286	6,177.107	58,984.102	74,797.797
2031	12	945,925,413.383	111.4792	21,258.655	1.918	7,981.026	76,209.412	105,451.012
2032	1	1,064,063,561.743	111.71307	31,259.577	0.000	8,016.474	79,593.752	118,869.803
2032	2	990,548,886.446	111.75316	33,309.592	0.000	7,081.067	70,306.306	110,696.965
2032	3	891,378,109.934	111.86049	27,270.027	70.378	6,621.932	65,747.655	99,709.992
2032	4	780,778,654.826	111.75242	15,826.393	443.596	6,495.140	64,488.771	87,253.901
2032	5	650,761,625.568	111.66604	5,583.459	2,238.689	5,933.495	58,912.330	72,667.973
2032	6	739,079,203.526	111.67523	1,016.545	10,715.217	6,478.776	64,326.299	82,536.838
2032	7	960,181,645.869	111.62806	31.155	25,725.409	7,450.667	73,975.985	107,183.216
2032	8	975,975,250.538	111.68068	0.000	28,271.837	7,386.533	73,339.206	108,997.576
2032	9	851,535,040.103	111.6001	39,049	20,635.704	6,803.750	67,552.891	95,031.394
2032	10	658,172,652.563	111.62833	1,842.878	6,141.385	5,992.114	59,494.335	73,470.711
2032	11	668,926,147.683	111.60391	8,992.051	573.816	5,955.738	59,133.172	74,654.777
2032	12	943,364,519.352	111.51359	21,090.229	1.923	7,695.815	76,409.997	105,197.964
2033	1	1,061,076,200.139	111.7497	31,019.228	0.000	7,775.524	79,780.192	118,574.944
2033	2	987,538,883.276	111.78963	33,053.506	0.000	6,868.577	70,474.526	110,396.609
2033	3	888,860,989.234	111.89659	27,060.369	70.572	6,423.342	65,906.232	99,460.516
2033	4	779,141,867.509	111.78701	15,704.666	444.818	6,300.690	64,647.763	87,097.937
2033	5	649,974,042.535	111.69994	5,540.516	2,244.859	5,756.149	59,060.540	72,602.064
2033	6	738,868,631.807	111.70848	1,008.723	10,744.720	6,286.125	64,498.321	82,537.888
2033	7	960,414,753.873	111.6605	30.915	25,796.034	7,230.049	74,183.389	107,240.387
2033	8	976,264,388.163	111.71131	0.000	28,348.986	7,167.649	73,543.137	109,059.773
2033	9	851,595,101.371	111.62912	38.747	20,691.552	6,601.216	67,731.296	95,062.811
2033	10	657,716,168.694	111.65614	1,828.562	6,157.871	5,812.534	59,639.081	73,438.049
2033	11	667,755,790.065	111.62914	8,921.908	575.339	5,776.314	59,267.445	74,541.006
2033	12	941,111,341.441	111.5376	20,921.627	1.928	7,463.816	76,581.934	104,969.305
2034	1	1,058,382,579.444	111.7747	30,772.572	0.000	7,595.514	79,932.309	118,300.394
2034	2	984,771,773.229	111.81348	32,789.924	0.000	6,709.769	70,611.063	110,110.756
2034	3	886,570,920.807	111.91897	26,843.876	70.741	6,274.893	66,034.595	99,224.105
2034	4	777,730,577.317	111.80783	15,578.636	445.867	6,155.345	64,776.523	86,956.372
2034	5	649,400,636.545	111.71881	5,495.934	2,250.108	5,623.599	59,180.624	72,550.266
2034	6	738,844,982.911	111.72532	1,000.586	10,769.639	6,141.947	64,635.523	82,547.695

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2034	7	960,795,311.493	111.67583	30.665	25,855.668	7,064.731	74,346.548	107,297.612
2034	8	976,695,817.634	111.72509	0.000	28,414.395	7,003.618	73,703.418	109,121.431
2034	9	851,840,284.773	111.64187	38.434	20,739.425	6,449.638	67,873.545	95,101.041
2034	10	657,491,138.781	111.66746	1,813.809	6,172.153	5,678.285	59,756.119	73,420.366
2034	11	666,842,068.419	111.63969	8,850.020	576.679	5,642.267	59,377.075	74,446.041
2034	12	939,375,599.784	111.54681	20,761.310	1.933	7,291.207	76,729.898	104,784.348
2035	1	1,056,306,345.762	111.78565	30,556.656	0.000	7,430.702	80,092.528	118,079.886
2035	2	982,621,921.674	111.82425	32,560.604	0.000	6,564.481	70,755.879	109,880.964
2035	3	884,847,009.441	111.92796	26,656.616	70.944	6,139.235	66,172.326	99,039.121
2035	4	776,778,539.276	111.81613	15,470.340	447.162	6,022.693	64,916.173	86,856.368
2035	5	649,183,753.744	111.72558	5,457.830	2,256.680	5,502.857	59,313.062	72,530.429
2035	6	739,192,966.160	111.73071	993.668	10,801.281	6,010.531	64,785.079	82,590.558
2035	7	961,635,895.685	111.67901	30.454	25,931.811	6,913.582	74,518.699	107,394.545
2035	8	977,599,062.419	111.72641	0.000	28,498.246	6,853.567	73,871.818	109,223.631
2035	9	852,515,104.280	111.64088	38.169	20,800.590	6,311.176	68,025.605	95,175.539
2035	10	657,612,316.844	111.66482	1,801.296	6,190.348	5,555.885	59,884.633	73,432.161
2035	11	666,325,493.074	111.63409	8,788.886	578.374	5,519.960	59,497.418	74,384.638
2035	12	938,095,010.875	111.5392	20,619.562	1.939	7,132.673	76,880.198	104,634.372
2036	1	1,054,617,957.081	111.7779	30,350.308	0.000	7,285.922	80,246.756	117,882.985
2036	2	980,834,896.074	111.81465	32,340.779	0.000	6,436.763	70,894.170	109,671.713
2036	3	883,443,012.989	111.91591	26,476.487	71.167	6,019.976	66,303.702	98,871.333
2036	4	776,093,339.750	111.80129	15,365.547	448.554	5,905.980	65,048.153	86,768.233
2036	5	649,187,151.416	111.70785	5,420.747	2,263.653	5,396.636	59,438.267	72,519.303
2036	6	739,767,611.225	111.70989	986.892	10,834.367	5,894.657	64,923.444	82,639.360
2036	7	962,732,973.596	111.65614	30.245	26,010.649	6,779.966	74,674.189	107,495.049
2036	8	978,749,547.445	111.70029	0.000	28,583.949	6,720.744	74,021.919	109,326.612
2036	9	853,415,531.335	111.61287	37.906	20,862.705	6,188.769	68,162.778	95,252.158
2036	10	657,925,028.794	111.63395	1,788.843	6,208.664	5,447.774	60,001.491	73,446.771
2036	11	666,003,276.848	111.60162	8,727.944	580.071	5,411.962	59,607.069	74,327.046
2036	12	936,853,127.693	111.5038	20,466.856	1.944	6,991.364	77,002.519	104,462.683
2037	1	1,052,789,482.395	111.74383	30,125.344	0.000	7,156.623	80,360.765	117,642.732
2037	2	978,880,458.058	111.7794	32,099.679	0.000	6,322.662	70,996.331	109,418.672
2037	3	881,877,030.789	111.87939	26,278.030	71.319	5,913.427	66,401.088	98,663.865

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2037	4	775,279,159.059	111.7631	15,249.775	449.496	5,801.709	65,146.624	86,647.605
2037	5	649,085,329.694	111.66865	5,379.719	2,268.330	5,301.753	59,532.679	72,482.481
2037	6	740,182,129.887	111.67055	979.394	10,856.453	5,791.272	65,029.422	82,656.542
2037	7	963,552,956.577	111.6156	30.014	26,062.763	6,660.860	74,793.908	107,547.545
2037	8	979,598,308.423	111.66103	0.000	28,640.731	6,602.592	74,139.633	109,382.956
2037	9	854,069,472.949	111.57273	37.615	20,903.525	6,079.854	68,269.873	95,290.866
2037	10	658,100,605.099	111.59427	1,775.063	6,220.678	5,351.642	60,092.871	73,440.254
2037	11	665,551,119.985	111.56233	8,660.521	581.181	5,316.006	59,692.724	74,250.432
2037	12	935,718,682.042	111.46509	20,316.420	1.948	6,867.488	77,114.108	104,299.964
2038	1	1,051,224,300.272	111.70925	29,915.767	0.000	7,042.884	80,472.830	117,431.481
2038	2	977,186,770.440	111.74629	31,876.071	0.000	6,222.451	71,098.471	109,196.993
2038	3	880,543,025.315	111.84763	26,094.772	71.485	5,820.031	66,500.364	98,486.652
2038	4	774,645,443.620	111.73192	15,143.251	450.539	5,710.458	65,248.373	86,552.621
2038	5	649,114,611.916	111.63804	5,342.080	2,273.565	5,218.865	59,631.375	72,465.885
2038	6	740,719,519.237	111.63945	972.523	10,881.285	5,700.872	65,138.841	82,693.521
2038	7	964,513,398.515	111.58559	29,804	26,122.118	6,556.663	74,917.210	107,625.795
2038	8	980,594,483.657	111.63028	0.000	28,705.309	6,499.111	74,259.616	109,464.036
2038	9	854,865,304.628	111.54193	37,349	20,950.257	5,984.630	68,381.095	95,353.330
2038	10	658,406,470.443	111.56267	1,762.486	6,234.440	5,267.667	60,188.992	73,453.585
2038	11	665,263,235.199	111.53051	8,598.999	582.456	5,232.180	59,783.511	74,197.146
2038	12	934,722,252.413	111.43264	20,173.768	1.953	6,758.574	77,224.275	104,158.569
2039	1	1,049,801,177.660	111.67827	29,721.023	0.000	6,939.409	80,579.551	117,239.983
2039	2	975,642,284.300	111.71544	31,668.176	0.000	6,131.216	71,194.915	108,994.307
2039	3	879,336,800.138	111.81546	25,924.100	71.639	5,734.890	66,592.822	98,323.450
2039	4	774,089,963.777	111.699	15,043.968	451.500	5,627.205	65,342.405	86,465.078
2039	5	649,174,586.296	111.60416	5,306.980	2,278.383	5,143.186	59,722.034	72,450.582
2039	6	741,256,744.533	111.60524	966.129	10,904.291	5,618.333	65,239.384	82,728.137
2039	7	965,457,585.710	111.54977	29,607	26,177.068	6,461.362	75,028.535	107,696.573
2039	8	981,579,133.896	111.59419	0.000	28,765.739	6,404.502	74,368.282	109,538.524
2039	9	855,667,203.370	111.50536	37,103	20,994.410	5,897.613	68,482.349	95,411.476
2039	10	658,744,424.830	111.52539	1,750.894	6,247.597	5,190.999	60,277.236	73,466.726
2039	11	665,059,073.257	111.49225	8,542.496	583.689	5,155.676	59,867.072	74,148.934
2039	12	933,927,331.150	111.39448	20,045.389	1.957	6,659.359	77,327.643	104,034.349

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2040	1	1,047,586,985.329	111.64231	29,545.974	0.000	6,618.098	80,790.954	116,955.026
2040	2	973,472,465.044	111.67921	31,482.310	0.000	5,847.728	71,386.597	108,716.635
2040	3	877,525,525.376	111.77931	25,772.500	71.801	5,469.957	66,774.938	98,089.196
2040	4	772,891,844.878	111.66221	14,956.214	452.529	5,367.681	65,526.386	86,302.809
2040	5	648,600,416.394	111.56749	5,276.106	2,283.604	4,906.502	59,896.509	72,362.720
2040	6	741,201,889.219	111.56762	960.513	10,929.312	5,360.884	65,443.420	82,694.130
2040	7	965,863,601.860	111.51147	29,435	26,237.222	6,166.021	75,272.189	107,704.867
2040	8	982,032,155.189	111.55526	0.000	28,831.885	6,111.564	74,607.405	109,550.854
2040	9	855,858,168.548	111.46567	36.888	21,042.662	5,627.015	68,692.236	95,398.802
2040	10	658,409,213.699	111.48563	1,740.743	6,261.969	4,951.737	60,448.718	73,403.165
2040	11	664,157,000.466	111.45153	8,492.918	585.026	4,917.129	60,026.238	74,021.312
2040	12	932,035,722.460	111.35275	19,913.930	1.961	6,350.055	77,518.798	103,784.743
2041	1	1,045,376,766.505	111.60339	29,349.387	0.000	6,343.051	80,975.151	116,667.588
2041	2	971,245,098.397	111.64036	31,271.960	0.000	5,604.998	71,553.192	108,430.149
2041	3	875,669,936.562	111.73947	25,599.428	71.904	5,243.045	66,932.517	97,846.894
2041	4	771,705,965.806	111.62134	14,855.287	453.160	5,145.329	65,685.075	86,138.851
2041	5	648,077,904.830	111.52501	5,240.316	2,286.715	4,703.620	60,046.240	72,276.892
2041	6	741,146,453.215	111.52375	953.965	10,943.858	5,140.041	65,617.571	82,655.435
2041	7	966,137,716.429	111.46649	29,234	26,271.338	5,912.511	75,478.893	107,691.976
2041	8	982,322,452.738	111.50777	0.000	28,868.226	5,859.987	74,808.377	109,536.591
2041	9	855,952,206.870	111.41607	36.632	21,068.430	5,394.593	68,867.176	95,366.833
2041	10	658,093,454.898	111.43385	1,728.611	6,269.414	4,746.189	60,589.675	73,333.890
2041	11	663,267,415.476	111.39811	8,433.445	585.704	4,712.172	60,155.415	73,886.736
2041	12	930,455,749.327	111.29691	19,779.723	1.963	6,085.675	77,689.492	103,556.853
2042	1	1,043,521,087.121	111.54825	29,164.079	0.000	6,112.899	81,125.971	116,402.949
2042	2	969,360,033.770	111.58333	31,073.776	0.000	5,401.805	71,688.844	108,164.425
2042	3	874,124,242.611	111.68013	25,436.540	72.000	5,053.071	67,060.694	97,622.305
2042	4	770,774,572.720	111.55938	14,760.352	453.758	4,959.124	65,813.897	85,987.131
2042	5	647,748,182.848	111.46018	5,206.677	2,289.668	4,533.707	60,168.079	72,198.131
2042	6	741,263,310.065	111.45601	947.815	10,957.692	4,954.900	65,757.844	82,618.252
2042	7	966,601,599.657	111.39524	29,044	26,303.813	5,699.698	75,642.266	107,674.821
2042	8	982,813,316.205	111.43364	0.000	28,903.236	5,648.775	74,966.451	109,518.462
2042	9	856,255,615.727	111.33975	36.394	21,093.599	5,199.626	69,005.667	95,335.285

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2042	10	657,984,926.735	111.35388	1,717.300	6,276.736	4,573.882	60,701.256	73,269.174
2042	11	662,637,167.761	111.31468	8,378.044	586.373	4,540.367	60,256.460	73,761.244
2042	12	929,158,126.022	111.21028	19,650.377	1.965	5,863.498	77,816.099	103,331.939
2043	1	1,041,982,232.000	111.46105	28,982.166	0.000	5,929.092	81,229.179	116,140.437
2043	2	967,772,053.606	111.49379	30,879.383	0.000	5,239.500	71,781.692	107,900.575
2043	3	872,849,238.944	111.58759	25,276.933	72.083	4,901.335	67,148.793	97,399.144
2043	4	770,072,139.135	111.46333	14,667.391	454.267	4,810.384	65,902.765	85,834.807
2043	5	647,599,936.428	111.36086	5,173.774	2,292.186	4,398.018	60,253.305	72,117.284
2043	6	741,544,123.806	111.35366	941.804	10,969.491	4,806.929	65,855.426	82,573.650
2043	7	967,235,756.013	111.28938	28,859	26,331.375	5,529.406	75,753.432	107,643.072
2043	8	983,476,386.191	111.32468	0.000	28,932.745	5,479.720	75,072.729	109,485.194
2043	9	856,736,487.741	111.22673	36.159	21,114.338	5,043.604	69,097.898	95,291.999
2043	10	658,052,238.421	111.23802	1,706.195	6,282.730	4,436.126	60,775.380	73,200.430
2043	11	662,214,466.124	111.19612	8,323.642	586.917	4,403.038	60,322.079	73,635.676
2043	12	928,100,328.583	111.08831	19,521.171	1.967	5,685.535	77,892.424	103,101.098
2044	1	1,040,811,822.045	111.33918	28,805.844	0.000	5,795.860	81,281.435	115,883.139
2044	2	966,527,193.182	111.36993	30,691.085	0.000	5,121.854	71,829.132	107,642.071
2044	3	871,878,866.194	111.46048	25,122.199	72.149	4,791.364	67,194.325	97,180.037
2044	4	769,620,220.825	111.33387	14,577.298	454.675	4,702.649	65,950.180	85,684.801
2044	5	647,643,961.345	111.22858	5,141.875	2,294.194	4,299.802	60,300.644	72,036.515
2044	6	741,994,642.585	111.21879	935.985	10,978.947	4,699.719	65,909.096	82,523.747
2044	7	968,043,694.659	111.15292	28,681	26,353.973	5,405.881	75,812.351	107,600.886
2044	8	984,322,661.193	111.18502	0.000	28,957.287	5,357.054	75,127.593	109,441.934
2044	9	857,416,253.022	111.08532	35.935	21,132.259	4,930.639	69,147.523	95,246.356
2044	10	658,325,299.795	111.09467	1,695.635	6,288.059	4,336.563	60,816.175	73,136.432
2044	11	662,044,165.713	111.05041	8,272.104	587.413	4,303.817	60,356.945	73,520.279
2044	12	927,321,617.124	110.94127	19,395.622	1.968	5,556.467	77,924.180	102,878.237
2045	1	1,039,650,724.767	111.19272	28,615.400	0.000	5,689.605	81,296.587	115,601.591
2045	2	965,275,092.034	111.22258	30,487.918	0.000	5,028.086	71,844.386	107,360.390
2045	3	870,909,820.129	111.31226	24,955.705	72.181	4,703.830	67,211.221	96,942.937
2045	4	769,193,664.038	111.18352	14,480.464	454.870	4,616.920	65,969.405	85,521.660
2045	5	647,725,184.720	111.07688	5,107.653	2,295.153	4,221.735	60,322.753	71,947.295
2045	6	742,462,405.795	111.06521	929.738	10,983.366	4,614.456	65,934.187	82,461.745

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2045	7	968,823,971.510	110.99771	28.489	26,364.093	5,307.521	75,837.137	107,537.240
2045	8	985,123,181.493	111.02915	0.000	28,967.976	5,259.430	75,149.983	109,377.390
2045	9	858,070,616.007	110.92738	35.693	21,139.505	4,840.747	69,167.582	95,183.528
2045	10	658,612,378.091	110.93582	1,684.157	6,290.080	4,257.381	60,832.088	73,063.707
2045	11	661,880,987.730	110.89003	8,215.846	587.586	4,224.880	60,367.689	73,396.000
2045	12	926,587,665.442	110.77882	19,262.665	1.969	5,453.839	77,927.819	102,646.292
2046	1	1,038,585,881.668	111.03244	28,427.900	0.000	5,595.810	81,293.016	115,316.726
2046	2	964,106,018.038	111.06149	30,287.269	0.000	4,945.283	71,842.497	107,075.049
2046	3	870,004,225.699	111.15016	24,790.810	72.195	4,626.514	67,211.586	96,701.105
2046	4	768,805,736.772	111.02036	14,384.401	454.951	4,541.222	65,972.516	85,353.090
2046	5	647,824,003.157	110.91173	5,073.614	2,295.499	4,152.777	60,329.391	71,851.281
2046	6	742,924,311.247	110.89876	923.519	10,984.783	4,539.119	65,941.966	82,389.387
2046	7	969,573,663.226	110.82995	28.298	26,366.979	5,220.584	75,841.935	107,457.797
2046	8	985,891,554.977	110.86027	0.000	28,970.654	5,173.122	75,152.427	109,296.203
2046	9	858,704,646.274	110.75764	35.452	21,141.104	4,761.336	69,170.209	95,108.101
2046	10	658,908,143.869	110.76417	1,672.749	6,290.432	4,187.430	60,832.806	72,983.417
2046	11	661,747,971.404	110.71787	8,160.080	587.613	4,155.190	60,364.442	73,267.324
2046	12	925,915,297.620	110.60579	19,131.712	1.969	5,363.260	77,914.649	102,411.590
2047	1	1,037,620,121.145	110.8609	28,242.465	0.000	5,513.781	81,275.257	115,031.504
2047	2	963,039,911.323	110.88987	30,089.645	0.000	4,872.926	71,828.802	106,791.373
2047	3	869,196,005.610	110.97772	24,628.852	72.202	4,558.995	67,201.342	96,461.392
2047	4	768,499,767.078	110.84709	14,290.282	454.989	4,475.157	65,965.536	85,185.964
2047	5	647,984,646.335	110.73763	5,040.360	2,295.665	4,092.674	60,327.582	71,756.281
2047	6	743,440,102.161	110.724	917.457	10,985.480	4,473.444	65,940.283	82,316.663
2047	7	970,376,150.060	110.65423	28.112	26,368.286	5,144.717	75,835.110	107,376.226
2047	8	986,713,452.069	110.68388	0.000	28,971.745	5,097.812	75,143.712	109,213.269
2047	9	859,397,553.076	110.58046	35.218	21,141.591	4,692.120	69,163.648	95,032.576
2047	10	659,264,355.837	110.58693	1,661.676	6,290.505	4,126.573	60,827.266	72,906.020
2047	11	661,691,596.735	110.5402	8,105.933	587.611	4,094.562	60,355.414	73,143.520
2047	12	925,349,885.297	110.42722	19,004.346	1.969	5,284.337	77,893.165	102,183.817
2048	1	1,036,713,500.426	110.68469	28,059.247	0.000	5,439.657	81,249.409	114,748.313
2048	2	962,021,134.907	110.71382	29,893.886	0.000	4,807.528	71,807.621	106,509.035
2048	3	868,421,816.592	110.80146	24,468.096	72.192	4,497.985	67,184.133	96,222.406

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2048	4	768,214,559.455	110.67048	14,196.613	454.914	4,415.472	65,951.674	85,018.674
2048	5	648,151,878.565	110.561	5,007.184	2,295.235	4,038.398	60,319.506	71,660.323
2048	6	743,935,314.502	110.54746	911.393	10,983.148	4,414.121	65,931.498	82,240.160
2048	7	971,114,754.851	110.47725	27.925	26,361.902	5,076.164	75,820.097	107,286.088
2048	8	987,457,318.530	110.50706	0.000	28,963.971	5,029.778	75,127.253	109,121.002
2048	9	860,025,288.663	110.40416	34.982	21,135.324	4,629.629	69,150.433	94,950.369
2048	10	659,596,009.550	110.41068	1,650.488	6,288.455	4,071.629	60,815.869	72,826.441
2048	11	661,620,780.878	110.36388	8,051.080	587.400	4,039.819	60,340.740	73,019.039
2048	12	924,750,750.191	110.25177	18,875.135	1.968	5,213.085	77,865.222	101,955.411
2049	1	1,035,829,961.267	110.51173	27,878.380	0.000	5,371.288	81,221.697	114,471.366
2049	2	961,023,221.059	110.54106	29,700.610	0.000	4,747.209	71,784.708	106,232.527
2049	3	867,664,971.757	110.62851	24,309.350	72.165	4,441.718	67,165.246	95,988.479
2049	4	767,941,144.720	110.49716	14,104.100	454.730	4,360.431	65,936.059	84,855.319
2049	5	648,321,538.825	110.38767	4,974.412	2,294.244	3,988.352	60,309.695	71,566.703
2049	6	744,408,462.062	110.37419	905.402	10,978.127	4,359.405	65,920.549	82,163.483
2049	7	971,792,321.810	110.30353	27.740	26,349.042	5,012.906	75,802.435	107,192.123
2049	8	988,133,833.755	110.33348	0.000	28,949.061	4,966.995	75,108.191	109,024.246
2049	9	860,605,926.246	110.23109	34.749	21,123.835	4,571.978	69,134.969	94,865.531
2049	10	659,919,002.035	110.23764	1,639.428	6,284.845	4,020.954	60,802.685	72,747.912
2049	11	661,558,713.451	110.19077	7,996.842	587.044	3,989.328	60,324.449	72,897.663
2049	12	924,166,305.028	110.07951	18,747.339	1.967	5,147.331	77,835.141	101,731.778
2050	1	1,035,031,668.592	110.34204	27,703.321	0.000	5,310.195	81,193.990	114,207.507
2050	2	960,106,761.843	110.37159	29,513.500	0.000	4,693.311	71,761.697	105,968.507
2050	3	866,979,216.713	110.45884	24,155.633	72.146	4,391.457	67,146.285	95,765.520
2050	4	767,722,754.684	110.32713	14,014.492	454.600	4,311.274	65,920.283	84,700.649
2050	5	648,531,612.150	110.2176	4,942.659	2,293.532	3,943.682	60,299.725	71,479.599
2050	6	744,921,564.596	110.20418	899.595	10,974.427	4,310.531	65,908.917	82,093.470
2050	7	972,519,625.400	110.13305	27.562	26,339.328	4,956.331	75,783.334	107,106.555
2050	8	988,861,287.284	110.16314	0.000	28,937.581	4,910.832	75,087.647	108,936.060
2050	9	861,233,385.296	110.06124	34.522	21,114.826	4,520.450	69,118.619	94,788.418
2050	10	660,280,189.903	110.0678	1,628.696	6,281.967	3,975.697	60,789.229	72,675.589
2050	11	661,541,291.586	110.02084	7,944.200	586.755	3,944.233	60,308.140	72,783.328
2050	12	923,650,407.390	109.91043	18,623.465	1.966	5,088.540	77,804.840	101,518.811

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2051	1	1,035,040,590.727	110.17559	27,630.411	0.000	5,236.926	81,168.874	114,036.212
2051	2	960,076,899.022	110.20538	29,435.599	0.000	4,628.674	71,741.368	105,805.640
2051	3	867,011,848.043	110.29245	24,091.623	72.202	4,331.147	67,129.893	95,624.865
2051	4	767,895,561.895	110.16036	13,977.123	454.947	4,252.268	65,907.317	84,591.655
2051	5	648,855,050.129	110.05079	4,929.400	2,295.242	3,889.997	60,292.370	71,407.009
2051	6	745,499,522.471	110.03741	897.167	10,982.428	4,251.883	65,901.357	82,032.835
2051	7	973,435,727.244	109.9658	27,487	26,357.949	4,888.634	75,770.572	107,044.641
2051	8	989,807,545.167	109.996	0.000	28,957.505	4,843.672	75,073.696	108,874.874
2051	9	862,004,673.430	109.8946	34,427	21,128.957	4,458.742	69,107.532	94,729.658
2051	10	660,695,509.908	109.90115	1,624.171	6,286.038	3,921.430	60,779.558	72,611.197
2051	11	661,737,707.713	109.85408	7,921.948	587.122	3,890.188	60,295.327	72,694.585
2051	12	923,699,907.882	109.7445	18,570.856	1.967	5,018.273	77,779.889	101,370.985
2052	1	1,035,053,267.298	110.01238	27,558.363	0.000	5,164.696	81,145.614	113,868.672
2052	2	960,048,085.815	110.04243	29,358.486	0.000	4,564.946	71,722.591	105,646.023
2052	3	867,043,777.630	110.12933	24,028.146	72.258	4,271.677	67,114.866	95,486.948
2052	4	768,066,980.006	109.99685	13,939.998	455.291	4,194.073	65,895.585	84,484.947
2052	5	649,176,599.725	109.88721	4,916.202	2,296.933	3,837.041	60,286.031	71,336.207
2052	6	746,072,409.562	109.87386	894.746	10,990.297	4,194.023	65,894.792	81,973.858
2052	7	974,340,430.928	109.80177	27,412	26,376.162	4,821.845	75,758.882	106,984.301
2052	8	990,740,065.270	109.83207	0.000	28,976.883	4,777.410	75,060.739	108,815.032
2052	9	862,763,692.682	109.73114	34,332	21,142.610	4,397.851	69,097.254	94,672.046
2052	10	661,103,332.428	109.73767	1,619.628	6,289.943	3,867.875	60,770.495	72,547.942
2052	11	661,925,671.072	109.69047	7,899.568	587.471	3,836.851	60,283.048	72,606.939
2052	12	923,735,517.493	109.58172	18,517.920	1.968	4,948.937	77,755.698	101,224.524
2053	1	1,035,046,889.828	109.85238	27,485.825	0.000	5,093.431	81,123.110	113,702.366
2053	2	959,999,813.536	109.88272	29,280.846	0.000	4,502.068	71,704.473	105,487.387
2053	3	867,058,590.132	109.96945	23,964.231	72.312	4,212.995	67,100.413	95,349.952
2053	4	768,225,521.244	109.83657	13,902.612	455.624	4,136.645	65,884.375	84,379.255
2053	5	649,488,521.043	109.72686	4,902.910	2,298.566	3,784.772	60,280.088	71,266.336
2053	6	746,633,227.574	109.71353	892.307	10,997.880	4,136.914	65,888.666	81,915.767
2053	7	975,226,551.638	109.64093	27,336	26,393.678	4,755.934	75,747.797	106,924.745
2053	8	991,653,027.663	109.67132	0.000	28,995.479	4,712.021	75,048.397	108,755.897
2053	9	863,506,369.503	109.57086	34,236	21,155.683	4,337.755	69,087.463	94,615.137

Indiana Michigan Power Company - Michigan
Long-Term Residential Model Output

Year	Month	Total Usage	Customers	Heating	Cooling	Lighting	Other	Total Energy
2053	10	661,501,014.025	109.57735	1,615.050	6,293.673	3,815.016	60,761.791	72,485.530
2053	11	662,103,041.701	109.53	7,877.014	587.803	3,784.209	60,271.123	72,520.149
2053	12	923,755,074.014	109.42206	18,464.592	1.969	4,880.521	77,732.104	101,079.187
2054	1	1,035,021,565.347	109.69559	27,412.933	0.000	5,023.118	81,101.246	113,537.297
2054	2	959,933,137.008	109.72623	29,202.873	0.000	4,440.030	71,686.938	105,329.840
2054	3	867,057,761.335	109.81279	23,900.080	72.366	4,155.095	67,086.495	95,214.035
2054	4	768,372,562.148	109.67951	13,865.113	455.950	4,079.978	65,873.685	84,274.726
2054	5	649,792,027.135	109.56972	4,889.587	2,300.168	3,733.190	60,274.583	71,197.529
2054	6	747,184,266.283	109.55639	889.864	11,005.332	4,080.559	65,883.059	81,858.814
2054	7	976,098,921.569	109.48327	27.261	26,410.905	4,690.903	75,737.437	106,866.507
2054	8	992,552,309.100	109.51374	0.000	29,013.790	4,647.510	75,036.817	108,698.117
2054	9	864,238,108.883	109.41374	34.140	21,168.571	4,278.464	69,078.348	94,559.523
2054	10	661,892,184.879	109.42017	1,610.475	6,297.354	3,762.863	60,753.666	72,424.358
2054	11	662,274,266.446	109.37267	7,854.487	588.132	3,732.275	60,259.808	72,434.702
2054	12	923,766,634.030	109.26553	18,411.390	1.970	4,813.042	77,709.445	100,935.847

LONG-TERM COMMERCIAL ENERGY

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on
1998	1	342,610.35	56,195.42	0.00	352,798.26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	292,069.61	57,426.51	0.00	317,151.29	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	298,441.30	47,297.17	0.00	315,529.24	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	297,305.43	29,954.74	1,933.86	319,831.40	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	298,594.58	6,830.26	8,652.58	318,937.63	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	6	328,463.66	375.27	50,734.74	332,098.84	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	7	361,711.87	133.47	111,636.16	329,758.44	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	8	345,924.63	0.00	88,664.09	313,542.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1998	9	359,449.19	0.00	76,771.45	329,805.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1998	10	310,996.27	1,875.88	38,051.61	314,995.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1998	11	289,951.16	16,662.24	2,425.95	308,439.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1998	12	327,049.14	29,746.25	0.00	344,352.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	333,418.54	74,290.91	0.00	356,028.12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	307,474.81	63,195.04	0.00	319,494.58	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	303,750.98	59,072.68	0.00	317,630.26	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	302,554.09	34,912.96	0.00	321,701.35	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	333,518.57	8,364.79	4,838.30	320,780.72	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	6	296,870.33	468.92	48,916.17	333,771.62	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1999	7	375,921.65	0.00	116,830.01	331,419.34	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	8	364,479.06	0.00	147,123.06	315,245.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1999	9	350,077.66	21.59	57,357.10	331,848.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1999	10	310,929.63	3,998.49	18,072.30	317,242.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1999	11	292,319.13	15,738.09	462.65	311,042.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1999	12	328,041.32	34,595.92	0.00	347,676.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	343,289.80	62,641.26	0.00	359,923.03	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	328,201.17	82,831.14	0.00	323,459.39	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	303,835.91	39,774.70	0.00	321,826.53	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	296,691.21	24,400.53	0.00	326,107.89	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	314,078.41	8,642.17	15,263.61	325,124.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	6	336,600.92	644.22	35,884.03	338,296.40	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	7	357,728.43	23.85	78,050.52	335,627.69	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	355,329.40	0.00	82,441.89	318,845.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2000	9	374,489.78	71.39	70,782.71	335,015.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on
2009	1	394,538.83	61,632.93	0.00	350,590.71	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	2	366,825.20	72,573.12	0.00	316,094.02	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	3	332,585.37	43,649.09	0.00	306,695.38	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	4	328,150.27	22,501.84	223.58	310,873.31	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	5	324,226.60	8,656.11	11,156.54	307,481.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	6	350,857.01	931.63	28,054.85	315,115.92	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	7	386,570.33	0.00	79,175.34	322,896.89	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	8	367,950.30	0.00	63,592.56	304,264.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2009	9	379,199.41	0.00	45,682.95	314,992.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2009	10	348,123.72	4,983.92	13,849.92	314,608.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2009	11	320,684.42	13,587.87	0.00	304,545.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2009	12	363,678.63	31,758.24	0.00	338,395.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	1	390,926.18	59,458.13	0.00	346,380.16	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	2	342,435.27	61,164.71	0.00	304,654.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	3	340,871.70	46,628.78	0.00	302,369.19	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	4	329,090.86	15,714.24	3,572.70	319,324.13	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	5	318,589.81	3,692.19	8,291.17	310,064.63	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	6	375,075.77	753.79	76,201.89	324,196.46	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	7	399,476.81	0.00	136,983.87	322,228.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	8	402,478.91	0.00	154,220.36	311,747.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2010	9	395,922.01	0.00	94,210.55	320,528.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2010	10	379,838.48	1,738.60	27,486.37	312,993.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2010	11	277,649.07	13,434.66	2,459.53	308,572.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2010	12	353,758.39	43,597.46	0.00	340,947.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	1	378,609.01	63,153.54	0.00	340,393.67	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	2	345,121.52	68,098.72	0.00	312,686.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	3	338,340.98	46,415.71	0.00	298,224.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	4	303,703.99	26,859.06	886.74	291,610.56	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	5	325,502.94	8,282.82	7,231.88	313,876.71	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	6	369,072.07	1,156.19	65,374.66	324,663.36	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	7	386,329.25	0.00	120,833.06	316,068.32	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	8	424,529.46	0.00	173,134.13	312,617.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2011	9	379,601.74	176.63	81,355.76	315,444.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on
2020	1		51,512.87	0.00	318,391.49	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	2		55,329.84	0.00	286,244.82	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	3		44,433.02	135.75	283,583.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	4		24,763.26	1,130.80	288,503.81	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	5		7,868.25	7,954.05	285,811.47	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	6		1,098.94	42,732.81	296,156.08	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	7		13.62	98,552.94	295,510.09	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	8		0.00	103,386.95	283,574.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2020	9		48.65	73,176.16	293,011.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2020	10		2,704.16	21,886.02	283,114.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2020	11		14,451.98	2,092.85	280,816.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2020	12		34,280.42	26.91	309,493.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	1		51,132.96	0.00	313,270.53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	2		54,964.99	0.00	281,862.50	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	3		44,175.32	134.59	279,465.45	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	4		24,640.19	1,122.00	284,551.50	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	5		7,835.55	7,898.65	282,126.40	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	6		1,095.24	42,468.49	292,567.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	7		13.59	98,015.20	292,142.99	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	8		0.00	102,892.78	280,534.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2021	9		48.59	72,871.43	290,049.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2021	10		2,702.02	21,807.04	280,409.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2021	11		14,447.71	2,086.33	278,270.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2021	12		34,291.11	26.85	306,873.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	1		51,322.27	0.00	311,290.71	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	2		55,198.50	0.00	280,233.49	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	3		44,383.67	134.49	277,979.81	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	4		24,767.08	1,121.70	283,160.84	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	5		7,878.86	7,899.52	280,853.12	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	6		1,101.63	42,486.39	291,337.38	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	7		13.67	98,079.82	290,984.30	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	8		0.00	102,979.43	279,472.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2022	9		48.90	72,944.99	289,000.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on
2031	1		43,716.20	0.00	302,111.93	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	2		47,012.50	0.00	271,938.90	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	3		37,797.44	134.61	269,722.81	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	4		21,089.98	1,122.58	274,725.99	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	5		6,708.69	7,905.17	272,470.11	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	6		937.99	42,515.42	282,632.33	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	7		11.64	98,147.28	282,291.09	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	8		0.00	103,054.52	271,134.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2031	9		41.64	73,004.06	280,400.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2031	10		2,316.28	21,851.87	271,144.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2031	11		12,388.41	2,091.17	269,148.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2031	12		29,399.53	26.90	296,773.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	1		42,958.39	0.00	300,900.08	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	2		46,197.26	0.00	270,846.37	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	3		37,141.92	134.85	268,638.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	4		20,724.02	1,124.57	273,619.12	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	5		6,592.25	7,919.17	271,371.14	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	6		921.70	42,590.44	281,490.57	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	7		11.44	98,320.22	281,150.01	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	8		0.00	103,235.76	270,037.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2032	9		40.92	73,132.73	279,267.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2032	10		2,276.06	21,890.45	270,049.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2032	11		12,173.36	2,094.87	268,061.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2032	12		28,889.77	26.95	295,581.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	1		42,246.74	0.00	299,861.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	2		45,432.88	0.00	269,917.19	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	3		36,527.89	135.15	267,720.85	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	4		20,381.91	1,127.12	272,690.98	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	5		6,483.56	7,937.32	270,456.16	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	6		906.52	42,688.92	280,547.42	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	7		11.25	98,549.19	280,212.62	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	8		0.00	103,477.55	269,141.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2033	9		40.25	73,304.59	278,341.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on
2042	1		36,588.50	0.00	295,220.12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	2		39,346.07	0.00	265,726.76	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	3		31,632.55	139.42	263,551.45	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	4		17,649.38	1,162.65	268,428.67	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	5		5,613.99	8,186.99	266,212.96	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	6		784.89	44,028.79	276,127.59	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	7		9.74	101,635.08	275,778.37	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2042	8		0.00	106,709.84	264,862.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2042	9		34.84	75,588.24	273,894.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2042	10		1,937.71	22,623.73	264,834.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2042	11		10,362.80	2,164.86	262,862.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2042	12		24,590.13	27.85	289,815.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	1		36,023.85	0.00	294,988.24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	2		38,736.96	0.00	265,504.93	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	3		31,141.41	139.92	263,319.25	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	4		17,374.56	1,166.78	268,180.05	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	5		5,526.30	8,215.71	265,952.86	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	6		772.60	44,181.32	275,845.67	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	7		9.58	101,982.88	275,485.21	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2043	8		0.00	107,070.23	264,569.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2043	9		34.29	75,840.27	273,579.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2043	10		1,907.03	22,698.20	264,518.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
2043	11		10,198.27	2,171.89	262,537.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2043	12		24,200.07	27.94	289,461.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	1		35,469.46	0.00	294,811.58	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	2		38,142.17	0.00	265,355.37	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	3		30,664.35	140.42	263,180.34	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	4		17,108.81	1,170.96	268,045.01	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	5		5,441.93	8,245.38	265,826.66	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	6		760.82	44,341.92	275,721.27	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	7		9.44	102,355.64	275,366.47	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2044	8		0.00	107,463.94	264,460.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2044	9		33.77	76,120.65	273,473.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
1998	1	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	2	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	3	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	4	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	5	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	6	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	7	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	8	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	9	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	10	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	11	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1998	12	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	1	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	2	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	3	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	4	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	5	1.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	6	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	7	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	8	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	9	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	10	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	11	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1999	12	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2000	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2000	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2000	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2001	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2002	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2003	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2003	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2004	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2005	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2006	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2006	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2007	1	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	2	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	3	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	4	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	5	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	6	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	8	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	9	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	10	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	11	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2007	12	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	1	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	2	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	3	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	4	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	5	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	6	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	8	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	9	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	10	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	11	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2008	12	0.00	1.00	1.00	0.00	0.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2009	1	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	2	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	3	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	4	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	5	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	6	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	8	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	9	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	10	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	11	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2009	12	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	1	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	2	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	3	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	4	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	5	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	6	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	8	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	9	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	10	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2010	11	0.00	1.00	1.00	1.00	0.00	0.00	0	0
2010	12	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	1	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	2	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	3	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	4	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	5	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	6	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	8	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2011	9	0.00	1.00	1.00	0.00	1.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2011	10	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2011	11	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2011	12	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	1	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	2	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	3	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	4	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	5	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	6	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	7	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	8	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	9	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	10	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	11	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2012	12	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	1	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	2	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	3	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	4	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	5	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	6	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	7	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	8	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	9	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	10	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	11	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2013	12	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	1	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	2	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	3	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	4	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	5	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	6	0.00	1.00	1.00	0.00	1.00	0.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	jul15on	XMissing	YMissing
2014	7	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	8	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	9	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	10	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	11	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2014	12	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	1	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	2	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	3	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	4	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	5	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	6	0.00	1.00	1.00	0.00	1.00	0.00	0	0
2015	7	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2015	8	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2015	9	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2015	10	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2015	11	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2015	12	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	1	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	2	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	3	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	4	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	5	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	6	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	7	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	8	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	9	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	10	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	11	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2016	12	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	1	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	2	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	3	0.00	1.00	1.00	0.00	1.00	1.00	0	0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	jul15on	XMissing	YMissing
2017	4	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	5	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	6	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	7	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	8	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	9	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	10	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	11	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2017	12	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	1	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	2	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	3	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	4	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	5	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	6	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	7	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	8	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	9	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	10	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	11	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2018	12	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2019	1	0.00	1.00	1.00	0.00	1.00	1.00	0	0
2019	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2019	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2020	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2020	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2021	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2022	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2022	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2023	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2024	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2025	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2025	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2026	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2027	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2028	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2028	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2029	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2030	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2031	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2031	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2032	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2033	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2033	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2034	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2035	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2036	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2036	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2037	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2038	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2039	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2039	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2040	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2041	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2042	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2042	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2043	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2044	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2044	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2045	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2046	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	jul15on	XMissing	YMissing
2047	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2047	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2048	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2049	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2050	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2050	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2051	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2052	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Input Data

Year	Month	May-99	D07on	D00on	10-Nov	Sep11on	Jul15on	XMissing	YMissing
2053	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2053	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	1	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	2	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	3	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	4	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	5	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	6	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	7	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	8	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	9	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	10	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	11	0.00	1.00	1.00	0.00	1.00	1.00	0	1
2054	12	0.00	1.00	1.00	0.00	1.00	1.00	0	1

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Coefficients

Variable	Coefficient	StdErr	T-Stat	P-Value	Definition
CONST	14493.802	26259.167	0.552	58.15%	Constant term
CommercialVars.XHeat	0.395	0.066	5.939	0.00%	Commercial Heating Component
CommercialVars.XCool	0.465	0.031	14.808	0.00%	Commercial Cooling Component
CommercialVars.XOther	0.854	0.075	11.424	0.00%	Commercial Other Component
BinaryVars.Jan	40.350	2489.378	0.016	98.71%	January
BinaryVars.Feb	1352.272	3411.966	0.396	69.22%	February
BinaryVars.Mar	-2702.293	3206.213	-0.843	40.02%	March
BinaryVars.Apr	-8587.222	2992.720	-2.869	0.45%	April
BinaryVars.May	-2693.899	3708.748	-0.726	46.83%	May
BinaryVars.Jun	6967.270	3908.251	1.783	7.60%	June
BinaryVars.Jul	14242.542	4893.240	2.911	0.40%	July
BinaryVars.Aug	19255.803	5518.481	3.489	0.06%	August
BinaryVars.Sep	27579.957	4421.007	6.238	0.00%	September
BinaryVars.Oct	15722.456	4067.508	3.865	0.02%	October
BinaryVars.Nov	-1295.498	3671.490	-0.353	72.45%	November
BinaryVars.Jun99	-32683.651	7251.311	-4.507	0.00%	Binary Variable - June 1999
BinaryVars.Mar09on	6770.975	2569.262	2.635	0.90%	Binary Variable - March 2009 On]
BinaryVars.May99	42101.738	7251.744	5.806	0.00%	Binary Variable - May 1999
BinaryVars.D07on	22692.834	1562.146	14.527	0.00%	Binary Variable - 2007 On
BinaryVars.D00on	13326.134	1929.023	6.908	0.00%	Binary Variable - 2000 On
BinaryVars.Nov10	-48420.767	7224.374	-6.702	0.00%	Binary Variable - November 2010
BinaryVars.Sep11on	358.008	1828.221	0.196	84.49%	Binary Variable - September 2011 On
BinaryVars.jul15on	-2690.095	1565.164	-1.719	8.70%	Binary Variable - July 2015 On

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Statistics

Model Statistics		Forecast Statistics	
Iterations	1	Forecast Observations	0
Adjusted Observations	253	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	230	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.951	Avg. Forecast Error	0.00
Adjusted R-Squared	0.946	Mean % Error	0.00%
AIC	17.772	Root Mean-Square Error	0.00
BIC	18.094	Theil's Inequality Coefficient	0.0000
F-Statistic	203.507	-- Bias Proportion	0.00%
Prob (F-Statistic)	0.0000	-- Variance Proportion	0.00%
Log-Likelihood	-2,584.20	-- Covariance Proportion	0.00%
Model Sum of Squares	214,721,446,906.26		
Sum of Squared Errors	11,030,630,489.82		
Mean Squared Error	47,959,263.00		
Std. Error of Regression	6,925.26		
Mean Abs. Dev. (MAD)	4,871.24		
Mean Abs. % Err. (MAPE)	1.40%		
Durbin-Watson Statistic	1.407		
Durbin-H Statistic	#NA		
Ljung-Box Statistic	76.69		
Prob (Ljung-Box)	0.0000		
Skewness	0.462		
Kurtosis	4.547		
Jarque-Bera	34.216		
Prob (Jarque-Bera)	0.0000		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
1998	1	338,135.584	14,493.802	22,180.821	0.000	301,420.611	40.350	0.000	0.000	0.000	0.000	0.000
1998	2	309,477.695	14,493.802	22,666.743	0.000	270,964.878	0.000	1,352.272	0.000	0.000	0.000	0.000
1998	3	300,039.159	14,493.802	18,668.603	0.000	269,579.047	0.000	0.000	-2,702.293	0.000	0.000	0.000
1998	4	291,883.788	14,493.802	11,823.394	899.125	273,254.688	0.000	0.000	0.000	-8,587.222	0.000	0.000
1998	5	291,009.862	14,493.802	2,695.963	4,022.921	272,491.076	0.000	0.000	0.000	0.000	-2,693.899	0.000
1998	6	328,933.367	14,493.802	148.124	23,588.538	283,735.633	0.000	0.000	0.000	0.000	0.000	6,967.270
1998	7	362,429.043	14,493.802	52.682	51,903.957	281,736.060	0.000	0.000	0.000	0.000	0.000	0.000
1998	8	342,854.165	14,493.802	0.000	41,223.357	267,881.203	0.000	0.000	0.000	0.000	0.000	0.000
1998	9	359,544.132	14,493.802	0.000	35,694.009	281,776.363	0.000	0.000	0.000	0.000	0.000	0.000
1998	10	317,771.564	14,493.802	740.426	17,691.659	269,123.220	0.000	0.000	0.000	0.000	0.000	0.000
1998	11	284,424.614	14,493.802	6,576.732	1,127.920	263,521.658	0.000	0.000	0.000	0.000	0.000	0.000
1998	12	320,439.788	14,493.802	11,741.104	0.000	294,204.882	0.000	0.000	0.000	0.000	0.000	0.000
1999	1	348,037.534	14,493.802	29,323.267	0.000	304,180.115	40.350	0.000	0.000	0.000	0.000	0.000
1999	2	313,756.623	14,493.802	24,943.632	0.000	272,966.917	0.000	1,352.272	0.000	0.000	0.000	0.000
1999	3	306,482.106	14,493.802	23,316.499	0.000	271,374.097	0.000	0.000	-2,702.293	0.000	0.000	0.000
1999	4	294,539.344	14,493.802	13,780.448	0.000	274,852.316	0.000	0.000	0.000	-8,587.222	0.000	0.000
1999	5	333,518.570	14,493.802	3,301.657	2,249.512	274,065.760	0.000	0.000	0.000	0.000	-2,693.899	0.000
1999	6	296,870.325	14,493.802	185.087	22,743.016	285,164.801	0.000	0.000	0.000	0.000	0.000	6,967.270
1999	7	366,210.208	14,493.802	0.000	54,318.779	283,155.085	0.000	0.000	0.000	0.000	0.000	0.000
1999	8	371,489.698	14,493.802	0.000	68,403.185	269,336.908	0.000	0.000	0.000	0.000	0.000	0.000
1999	9	352,271.619	14,493.802	8.521	26,667.528	283,521.810	0.000	0.000	0.000	0.000	0.000	0.000
1999	10	311,240.009	14,493.802	1,578.238	8,402.512	271,043.001	0.000	0.000	0.000	0.000	0.000	0.000
1999	11	285,370.682	14,493.802	6,211.962	215.104	265,745.311	0.000	0.000	0.000	0.000	0.000	0.000
1999	12	325,193.464	14,493.802	13,655.309	0.000	297,044.352	0.000	0.000	0.000	0.000	0.000	0.000
2000	1	360,093.144	14,493.802	24,725.047	0.000	307,507.810	40.350	0.000	0.000	0.000	0.000	0.000
2000	2	338,220.709	14,493.802	32,694.169	0.000	276,354.332	0.000	1,352.272	0.000	0.000	0.000	0.000
2000	3	315,776.328	14,493.802	15,699.421	0.000	274,959.264	0.000	0.000	-2,702.293	0.000	0.000	0.000
2000	4	307,480.952	14,493.802	9,631.101	0.000	278,617.136	0.000	0.000	0.000	-8,587.222	0.000	0.000
2000	5	313,410.538	14,493.802	3,411.141	7,096.642	277,776.719	0.000	0.000	0.000	0.000	-2,693.899	0.000
2000	6	340,755.997	14,493.802	254.279	16,683.868	289,030.644	0.000	0.000	0.000	0.000	0.000	6,967.270
2000	7	365,111.166	14,493.802	9,413	36,288.699	286,750.576	0.000	0.000	0.000	0.000	0.000	0.000
2000	8	357,818.872	14,493.802	0.000	38,330.415	272,412.718	0.000	0.000	0.000	0.000	0.000	0.000
2000	9	374,565.172	14,493.802	28.180	32,909.612	286,227.486	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2003	7	370,994.549	14,493.802	5,018	34,221.819	294,705.234	0.000	0.000	0.000	0.000	0.000	0.000
2003	8	365,556.791	14,493.802	0.000	39,685.284	278,795.768	0.000	0.000	0.000	0.000	0.000	0.000
2003	9	391,832.046	14,493.802	1,004	35,031.983	301,399.164	0.000	0.000	0.000	0.000	0.000	0.000
2003	10	327,323.848	14,493.802	2,489.725	3,771.691	277,520.039	0.000	0.000	0.000	0.000	0.000	0.000
2003	11	306,678.585	14,493.802	6,877.459	171.768	273,104.921	0.000	0.000	0.000	0.000	0.000	0.000
2003	12	352,033.094	14,493.802	15,727.473	26,427	308,459.258	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	372,323.421	14,493.802	23,098.246	0.000	321,364.889	40.350	0.000	0.000	0.000	0.000	0.000
2004	2	348,529.468	14,493.802	32,631.092	0.000	286,726.168	0.000	1,352.272	0.000	0.000	0.000	0.000
2004	3	330,988.956	14,493.802	20,838.152	0.000	285,033.161	0.000	0.000	-2,702.293	0.000	0.000	0.000
2004	4	322,402.347	14,493.802	10,480.807	725.611	291,963.214	0.000	0.000	0.000	-8,587.222	0.000	0.000
2004	5	325,012.271	14,493.802	3,149.496	8,091.493	288,645.245	0.000	0.000	0.000	0.000	-2,693.899	0.000
2004	6	355,591.599	14,493.802	275.182	19,986.215	300,542.996	0.000	0.000	0.000	0.000	0.000	6,967.270
2004	7	369,741.053	14,493.802	0.000	31,307.750	296,370.825	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	357,148.716	14,493.802	0.000	28,136.484	281,936.493	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	376,996.695	14,493.802	0.000	25,058.479	296,538.322	0.000	0.000	0.000	0.000	0.000	0.000
2004	10	337,995.827	14,493.802	1,447.258	8,765.253	284,240.924	0.000	0.000	0.000	0.000	0.000	0.000
2004	11	311,754.056	14,493.802	4,903.991	558.770	279,766.858	0.000	0.000	0.000	0.000	0.000	0.000
2004	12	356,795.916	14,493.802	14,268.501	39.891	314,667.587	0.000	0.000	0.000	0.000	0.000	0.000
2005	1	372,334.802	14,493.802	25,246.154	0.000	319,228.361	40.350	0.000	0.000	0.000	0.000	0.000
2005	2	344,914.652	14,493.802	28,554.236	0.000	287,188.208	0.000	1,352.272	0.000	0.000	0.000	0.000
2005	3	335,356.715	14,493.802	22,782.763	0.000	287,456.309	0.000	0.000	-2,702.293	0.000	0.000	0.000
2005	4	326,415.940	14,493.802	12,197.500	192.696	294,793.029	0.000	0.000	0.000	-8,587.222	0.000	0.000
2005	5	318,555.302	14,493.802	5,045.437	2,256.568	286,127.260	0.000	0.000	0.000	0.000	-2,693.899	0.000
2005	6	355,036.543	14,493.802	840.241	17,550.806	301,858.291	0.000	0.000	0.000	0.000	0.000	6,967.270
2005	7	400,170.646	14,493.802	0.000	56,538.708	301,569.460	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	394,469.450	14,493.802	0.000	63,705.189	283,688.522	0.000	0.000	0.000	0.000	0.000	0.000
2005	9	389,186.127	14,493.802	0.000	39,005.153	294,781.080	0.000	0.000	0.000	0.000	0.000	0.000
2005	10	352,264.650	14,493.802	690.373	18,132.054	289,899.830	0.000	0.000	0.000	0.000	0.000	0.000
2005	11	315,571.936	14,493.802	6,085.156	1,468.173	281,494.169	0.000	0.000	0.000	0.000	0.000	0.000
2005	12	358,174.046	14,493.802	21,460.049	0.000	308,894.061	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	371,534.837	14,493.802	22,153.913	0.000	321,520.637	40.350	0.000	0.000	0.000	0.000	0.000
2006	2	337,645.283	14,493.802	18,218.265	0.000	290,254.811	0.000	1,352.272	0.000	0.000	0.000	0.000
2006	3	332,267.697	14,493.802	20,364.748	0.000	286,785.306	0.000	0.000	-2,702.293	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2006	4	314,628.881	14,493.802	11,477.561	200.444	283,718.162	0.000	0.000	0.000	-8,587.222	0.000	0.000
2006	5	321,129.351	14,493.802	2,450.796	387.863	293,164.655	0.000	0.000	0.000	0.000	-2,693.899	0.000
2006	6	354,172.378	14,493.802	945.601	17,426.486	301,013.084	0.000	0.000	0.000	0.000	0.000	6,967.270
2006	7	381,141.556	14,493.802	0.000	40,324.917	298,754.160	0.000	0.000	0.000	0.000	0.000	0.000
2006	8	396,130.071	14,493.802	0.000	60,313.205	288,741.127	0.000	0.000	0.000	0.000	0.000	0.000
2006	9	379,773.691	14,493.802	53.893	25,047.526	299,272.378	0.000	0.000	0.000	0.000	0.000	0.000
2006	10	332,269.332	14,493.802	1,861.790	2,311.182	284,553.967	0.000	0.000	0.000	0.000	0.000	0.000
2006	11	326,551.876	14,493.802	9,709.814	211.012	290,106.612	0.000	0.000	0.000	0.000	0.000	0.000
2006	12	351,848.374	14,493.802	14,236.972	0.000	309,791.466	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	386,081.922	14,493.802	15,945.023	0.000	319,583.779	40.350	0.000	0.000	0.000	0.000	0.000
2007	2	375,909.159	14,493.802	28,949.363	0.000	295,094.754	0.000	1,352.272	0.000	0.000	0.000	0.000
2007	3	359,430.668	14,493.802	26,583.258	13.398	285,023.534	0.000	0.000	-2,702.293	0.000	0.000	0.000
2007	4	346,271.908	14,493.802	10,002.085	844.389	293,499.885	0.000	0.000	0.000	-8,587.222	0.000	0.000
2007	5	342,608.872	14,493.802	3,799.642	4,256.658	286,733.700	0.000	0.000	0.000	0.000	-2,693.899	0.000
2007	6	384,372.527	14,493.802	259.036	29,961.599	296,671.852	0.000	0.000	0.000	0.000	0.000	6,967.270
2007	7	409,051.875	14,493.802	0.000	44,081.689	300,214.874	0.000	0.000	0.000	0.000	0.000	0.000
2007	8	411,344.061	14,493.802	0.000	52,355.718	289,219.770	0.000	0.000	0.000	0.000	0.000	0.000
2007	9	419,670.503	14,493.802	46.104	43,770.380	297,761.290	0.000	0.000	0.000	0.000	0.000	0.000
2007	10	375,241.966	14,493.802	464.298	21,501.491	287,040.951	0.000	0.000	0.000	0.000	0.000	0.000
2007	11	345,234.266	14,493.802	5,655.455	4,559.355	285,802.184	0.000	0.000	0.000	0.000	0.000	0.000
2007	12	378,845.678	14,493.802	17,824.147	0.000	310,508.761	0.000	0.000	0.000	0.000	0.000	0.000
2008	1	387,092.468	14,493.802	21,498.041	0.000	315,041.306	40.350	0.000	0.000	0.000	0.000	0.000
2008	2	365,731.891	14,493.802	25,730.165	0.000	288,136.683	0.000	1,352.272	0.000	0.000	0.000	0.000
2008	3	354,714.228	14,493.802	24,404.504	0.000	282,499.246	0.000	0.000	-2,702.293	0.000	0.000	0.000
2008	4	336,777.685	14,493.802	12,870.649	49.905	281,931.583	0.000	0.000	0.000	-8,587.222	0.000	0.000
2008	5	330,603.032	14,493.802	3,113.492	1,958.336	277,712.332	0.000	0.000	0.000	0.000	-2,693.899	0.000
2008	6	371,486.153	14,493.802	717.380	19,343.717	293,945.015	0.000	0.000	0.000	0.000	0.000	6,967.270
2008	7	396,606.901	14,493.802	0.921	37,346.606	294,504.062	0.000	0.000	0.000	0.000	0.000	0.000
2008	8	390,124.363	14,493.802	0.000	46,983.608	273,372.181	0.000	0.000	0.000	0.000	0.000	0.000
2008	9	395,382.610	14,493.802	0.000	34,730.499	282,559.383	0.000	0.000	0.000	0.000	0.000	0.000
2008	10	350,969.189	14,493.802	807.095	9,389.821	274,537.046	0.000	0.000	0.000	0.000	0.000	0.000
2008	11	333,968.473	14,493.802	6,464.922	606.284	277,679.994	0.000	0.000	0.000	0.000	0.000	0.000
2008	12	365,424.702	14,493.802	19,222.009	0.000	295,689.923	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2009	1	374,414.719	14,493.802	24,327.053	0.000	299,534.545	40.350	0.000	0.000	0.000	0.000	0.000
2009	2	350,571.860	14,493.802	28,645.240	0.000	270,061.578	0.000	1,352.272	0.000	0.000	0.000	0.000
2009	3	333,841.779	14,493.802	17,228.675	0.000	262,031.652	0.000	0.000	-2,702.293	0.000	0.000	0.000
2009	4	323,283.301	14,493.802	8,881.671	103.952	265,601.153	0.000	0.000	0.000	-8,587.222	0.000	0.000
2009	5	325,897.167	14,493.802	3,416.641	5,187.106	262,703.574	0.000	0.000	0.000	0.000	-2,693.899	0.000
2009	6	346,888.438	14,493.802	367.721	13,043.784	269,225.917	0.000	0.000	0.000	0.000	0.000	6,967.270
2009	7	384,211.705	14,493.802	0.000	36,811.669	275,873.748	0.000	0.000	0.000	0.000	0.000	0.000
2009	8	366,061.004	14,493.802	0.000	29,566.635	259,954.821	0.000	0.000	0.000	0.000	0.000	0.000
2009	9	375,223.575	14,493.802	0.000	21,239.765	269,120.106	0.000	0.000	0.000	0.000	0.000	0.000
2009	10	350,205.278	14,493.802	1,967.196	6,439.360	268,792.520	0.000	0.000	0.000	0.000	0.000	0.000
2009	11	321,546.028	14,493.802	5,363.252	0.000	260,194.529	0.000	0.000	0.000	0.000	0.000	0.000
2009	12	358,934.159	14,493.802	12,535.252	0.000	289,115.161	0.000	0.000	0.000	0.000	0.000	0.000
2010	1	376,729.915	14,493.802	23,468.641	0.000	295,937.178	40.350	0.000	0.000	0.000	0.000	0.000
2010	2	343,066.139	14,493.802	24,142.241	0.000	260,287.880	0.000	1,352.272	0.000	0.000	0.000	0.000
2010	3	331,321.716	14,493.802	18,404.785	0.000	258,335.479	0.000	0.000	-2,702.293	0.000	0.000	0.000
2010	4	329,381.439	14,493.802	6,202.547	1,661.084	272,821.284	0.000	0.000	0.000	-8,587.222	0.000	0.000
2010	5	324,812.313	14,493.802	1,457.339	3,854.885	264,910.242	0.000	0.000	0.000	0.000	-2,693.899	0.000
2010	6	376,961.806	14,493.802	297.527	35,429.200	276,984.063	0.000	0.000	0.000	0.000	0.000	6,967.270
2010	7	410,518.431	14,493.802	0.000	63,689.089	275,303.055	0.000	0.000	0.000	0.000	0.000	0.000
2010	8	414,590.280	14,493.802	0.000	71,702.995	266,347.737	0.000	0.000	0.000	0.000	0.000	0.000
2010	9	402,515.878	14,493.802	0.000	43,802.119	273,850.055	0.000	0.000	0.000	0.000	0.000	0.000
2010	10	353,884.216	14,493.802	686.240	12,779.472	267,412.303	0.000	0.000	0.000	0.000	0.000	0.000
2010	11	277,649.071	14,493.802	5,302.777	1,143.529	263,635.285	0.000	0.000	0.000	0.000	0.000	0.000
2010	12	365,787.506	14,493.802	17,208.294	0.000	291,295.466	0.000	0.000	0.000	0.000	0.000	0.000
2011	1	373,073.835	14,493.802	24,927.248	0.000	290,822.491	40.350	0.000	0.000	0.000	0.000	0.000
2011	2	352,665.033	14,493.802	26,879.156	0.000	267,149.859	0.000	1,352.272	0.000	0.000	0.000	0.000
2011	3	327,696.508	14,493.802	18,320.683	0.000	254,794.372	0.000	0.000	-2,702.293	0.000	0.000	0.000
2011	4	308,853.922	14,493.802	10,601.505	412.278	249,143.615	0.000	0.000	0.000	-8,587.222	0.000	0.000
2011	5	329,388.702	14,493.802	3,269.300	3,362.381	268,167.174	0.000	0.000	0.000	0.000	-2,693.899	0.000
2011	6	372,485.547	14,493.802	456.359	30,395.204	277,382.969	0.000	0.000	0.000	0.000	0.000	6,967.270
2011	7	397,745.858	14,493.802	0.000	56,179.950	270,039.620	0.000	0.000	0.000	0.000	0.000	0.000
2011	8	424,127.984	14,493.802	0.000	80,496.736	267,091.700	0.000	0.000	0.000	0.000	0.000	0.000
2011	9	392,623.568	14,493.802	69.719	37,825.432	269,506.706	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2014	7	376,185.112	14,493.802	0.000	43,943.376	260,357.439	0.000	0.000	0.000	0.000	0.000	0.000
2014	8	357,784.649	14,493.802	0.000	28,193.078	252,694.014	0.000	0.000	0.000	0.000	0.000	0.000
2014	9	381,547.204	14,493.802	41.935	35,236.720	261,046.837	0.000	0.000	0.000	0.000	0.000	0.000
2014	10	329,969.422	14,493.802	1,172.452	3,680.518	251,752.241	0.000	0.000	0.000	0.000	0.000	0.000
2014	11	314,295.711	14,493.802	7,127.275	70.620	250,751.560	0.000	0.000	0.000	0.000	0.000	0.000
2014	12	350,794.487	14,493.802	16,802.546	0.000	276,350.187	0.000	0.000	0.000	0.000	0.000	0.000
2015	1	357,280.252	14,493.802	20,909.804	0.000	278,688.344	40.350	0.000	0.000	0.000	0.000	0.000
2015	2	333,406.266	14,493.802	25,169.219	0.000	249,243.021	0.000	1,352.272	0.000	0.000	0.000	0.000
2015	3	330,656.035	14,493.802	26,097.096	0.000	249,619.478	0.000	0.000	-2,702.293	0.000	0.000	0.000
2015	4	318,736.816	14,493.802	10,770.986	0.000	258,911.297	0.000	0.000	0.000	-8,587.222	0.000	0.000
2015	5	316,967.064	14,493.802	2,845.153	6,003.316	253,170.741	0.000	0.000	0.000	0.000	-2,693.899	0.000
2015	6	348,038.247	14,493.802	288.070	24,856.122	258,285.031	0.000	0.000	0.000	0.000	0.000	6,967.270
2015	7	362,681.880	14,493.802	2,051	32,495.911	260,989.717	0.000	0.000	0.000	0.000	0.000	0.000
2015	8	366,540.933	14,493.802	0.000	45,386.010	246,947.461	0.000	0.000	0.000	0.000	0.000	0.000
2015	9	378,080.038	14,493.802	0.000	35,490.023	260,058.399	0.000	0.000	0.000	0.000	0.000	0.000
2015	10	330,585.683	14,493.802	545.954	11,749.137	247,616.477	0.000	0.000	0.000	0.000	0.000	0.000
2015	11	305,061.794	14,493.802	3,522.138	309.716	247,573.778	0.000	0.000	0.000	0.000	0.000	0.000
2015	12	344,875.019	14,493.802	9,850.753	0.000	280,072.606	0.000	0.000	0.000	0.000	0.000	0.000
2016	1	344,535.078	14,493.802	14,948.201	0.000	274,594.868	40.350	0.000	0.000	0.000	0.000	0.000
2016	2	326,860.178	14,493.802	20,778.439	0.000	249,777.808	0.000	1,352.272	0.000	0.000	0.000	0.000
2016	3	316,029.612	14,493.802	14,208.750	0.000	249,571.495	0.000	0.000	-2,702.293	0.000	0.000	0.000
2016	4	309,176.876	14,493.802	7,667.467	0.000	255,144.972	0.000	0.000	0.000	-8,587.222	0.000	0.000
2016	5	304,091.848	14,493.802	3,092.801	360.784	248,380.503	0.000	0.000	0.000	0.000	-2,693.899	0.000
2016	6	347,577.822	14,493.802	546.651	26,156.411	258,955.830	0.000	0.000	0.000	0.000	0.000	6,967.270
2016	7	371,876.631	14,493.802	0.000	43,897.413	258,785.016	0.000	0.000	0.000	0.000	0.000	0.000
2016	8	388,944.684	14,493.802	0.000	64,860.182	249,877.039	0.000	0.000	0.000	0.000	0.000	0.000
2016	9	387,937.712	14,493.802	0.000	48,768.142	256,637.953	0.000	0.000	0.000	0.000	0.000	0.000
2016	10	340,244.079	14,493.802	186.493	19,025.258	250,358.212	0.000	0.000	0.000	0.000	0.000	0.000
2016	11	307,725.290	14,493.802	3,059.995	3,199.781	247,809.353	0.000	0.000	0.000	0.000	0.000	0.000
2016	12	348,407.614	14,493.802	13,612.300	127.561	279,716.094	0.000	0.000	0.000	0.000	0.000	0.000
2017	1	351,893.649	14,493.802	20,190.139	0.000	276,711.500	40.350	0.000	0.000	0.000	0.000	0.000
2017	2	318,439.177	14,493.802	15,451.770	0.000	246,683.476	0.000	1,352.272	0.000	0.000	0.000	0.000
2017	3	310,755.828	14,493.802	11,814.346	0.000	246,692.117	0.000	0.000	-2,702.293	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2017	4	305,462.637	14,493.802	8,335.687	813.944	249,948.569	0.000	0.000	0.000	-8,587.222	0.000	0.000
2017	5	304,716.403	14,493.802	2,174.702	5,380.170	244,903.771	0.000	0.000	0.000	0.000	-2,693.899	0.000
2017	6	339,553.813	14,493.802	426.197	20,574.808	256,633.878	0.000	0.000	0.000	0.000	0.000	6,967.270
2017	7	373,571.816	14,493.802	0.000	45,062.940	259,314.675	0.000	0.000	0.000	0.000	0.000	0.000
2017	8	368,803.249	14,493.802	0.000	42,095.471	252,500.316	0.000	0.000	0.000	0.000	0.000	0.000
2017	9	358,680.003	14,493.802	0.000	20,284.626	255,863.760	0.000	0.000	0.000	0.000	0.000	0.000
2017	10	343,845.197	14,493.802	100.148	21,322.352	251,748.581	0.000	0.000	0.000	0.000	0.000	0.000
2017	11	307,373.724	14,493.802	5,973.989	2,298.080	245,445.494	0.000	0.000	0.000	0.000	0.000	0.000
2017	12	345,880.005	14,493.802	12,686.101	0.000	278,242.245	0.000	0.000	0.000	0.000	0.000	0.000
2018	1	354,886.239	14,493.802	25,425.001	0.000	274,469.229	40.350	0.000	0.000	0.000	0.000	0.000
2018	2	323,421.681	14,493.802	21,256.013	0.000	245,861.736	0.000	1,352.272	0.000	0.000	0.000	0.000
2018	3	312,371.777	14,493.802	14,673.921	0.000	245,448.490	0.000	0.000	-2,702.293	0.000	0.000	0.000
2018	4	314,536.052	14,493.802	12,960.046	82.966	255,128.602	0.000	0.000	0.000	-8,587.222	0.000	0.000
2018	5	310,802.978	14,493.802	4,449.841	4,606.398	249,488.979	0.000	0.000	0.000	0.000	-2,693.899	0.000
2018	6	357,494.286	14,493.802	47.000	36,567.549	258,960.808	0.000	0.000	0.000	0.000	0.000	6,967.270
2018	7	384,547.186	14,493.802	0.000	58,559.433	256,793.552	0.000	0.000	0.000	0.000	0.000	0.000
2018	8	373,090.191	14,493.802	0.000	49,121.331	249,761.398	0.000	0.000	0.000	0.000	0.000	0.000
2018	9	388,954.935	14,493.802	0.000	50,671.583	255,751.735	0.000	0.000	0.000	0.000	0.000	0.000
2018	10	344,692.468	14,493.802	979.363	25,241.498	247,797.491	0.000	0.000	0.000	0.000	0.000	0.000
2018	11	316,137.936	14,493.802	7,623.027	3,563.182	251,295.566	0.000	0.000	0.000	0.000	0.000	0.000
2018	12	344,785.794	14,493.802	15,137.187	0.000	274,696.948	0.000	0.000	0.000	0.000	0.000	0.000
2019	1	346,321.298	14,493.802	15,415.799	0.000	275,913.490	40.350	0.000	0.000	0.000	0.000	0.000
2019	2	326,540.612	14,493.802	21,983.507	0.000	248,253.173	0.000	1,352.272	0.000	0.000	0.000	0.000
2019	3	316,145.981	14,493.802	17,669.652	63.778	246,163.185	0.000	0.000	-2,702.293	0.000	0.000	0.000
2019	4	307,421.402	14,493.802	9,856.805	531.755	250,668.405	0.000	0.000	0.000	-8,587.222	0.000	0.000
2019	5	307,604.647	14,493.802	3,133.675	3,742.512	248,470.700	0.000	0.000	0.000	0.000	-2,693.899	0.000
2019	6	340,037.895	14,493.802	437.850	20,114.521	257,566.596	0.000	0.000	0.000	0.000	0.000	6,967.270
2019	7	372,690.798	14,493.802	5.429	46,404.144	257,087.023	0.000	0.000	0.000	0.000	0.000	0.000
2019	8	369,621.336	14,493.802	0.000	48,685.201	246,728.673	0.000	0.000	0.000	0.000	0.000	0.000
2019	9	371,846.033	14,493.802	19.387	34,446.554	254,848.475	0.000	0.000	0.000	0.000	0.000	0.000
2019	10	328,237.251	14,493.802	1,077.240	10,300.210	246,185.685	0.000	0.000	0.000	0.000	0.000	0.000
2019	11	304,486.551	14,493.802	5,754.880	984.567	244,090.942	0.000	0.000	0.000	0.000	0.000	0.000
2019	12	337,544.410	14,493.802	13,646.482	12.657	268,933.611	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2020	1	347,349.054	14,493.802	20,332.578	0.000	272,024.467	40.350	0.000	0.000	0.000	0.000	0.000
2020	2	322,702.380	14,493.802	21,839.169	0.000	244,559.280	0.000	1,352.272	0.000	0.000	0.000	0.000
2020	3	312,136.289	14,493.802	17,538.098	63.117	242,285.708	0.000	0.000	-2,702.293	0.000	0.000	0.000
2020	4	303,153.761	14,493.802	9,774.272	525.750	246,489.301	0.000	0.000	0.000	-8,587.222	0.000	0.000
2020	5	303,250.614	14,493.802	3,105.666	3,698.145	244,189.043	0.000	0.000	0.000	0.000	-2,693.899	0.000
2020	6	335,248.001	14,493.802	433.763	19,868.132	253,027.177	0.000	0.000	0.000	0.000	0.000	6,967.270
2020	7	367,495.905	14,493.802	5.377	45,821.064	252,475.263	0.000	0.000	0.000	0.000	0.000	0.000
2020	8	364,554.185	14,493.802	0.000	48,068.581	242,278.142	0.000	0.000	0.000	0.000	0.000	0.000
2020	9	366,914.110	14,493.802	19.205	34,022.422	250,340.867	0.000	0.000	0.000	0.000	0.000	0.000
2020	10	323,802.344	14,493.802	1,067.355	10,175.654	241,885.219	0.000	0.000	0.000	0.000	0.000	0.000
2020	11	300,255.256	14,493.802	5,704.322	973.045	239,921.727	0.000	0.000	0.000	0.000	0.000	0.000
2020	12	332,916.825	14,493.802	13,530.779	12.513	264,421.873	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	342,823.898	14,493.802	20,182.621	0.000	267,649.267	40.350	0.000	0.000	0.000	0.000	0.000
2021	2	318,814.242	14,493.802	21,695.158	0.000	240,815.153	0.000	1,352.272	0.000	0.000	0.000	0.000
2021	3	308,515.503	14,493.802	17,436.381	62.574	238,767.182	0.000	0.000	-2,702.293	0.000	0.000	0.000
2021	4	299,724.360	14,493.802	9,725.698	521.662	243,112.562	0.000	0.000	0.000	-8,587.222	0.000	0.000
2021	5	300,063.533	14,493.802	3,092.758	3,672.389	241,040.626	0.000	0.000	0.000	0.000	-2,693.899	0.000
2021	6	332,057.241	14,493.802	432.299	19,745.240	249,960.772	0.000	0.000	0.000	0.000	0.000	6,967.270
2021	7	364,369.116	14,493.802	5.362	45,571.046	249,598.506	0.000	0.000	0.000	0.000	0.000	0.000
2021	8	361,726.814	14,493.802	0.000	47,838.825	239,680.527	0.000	0.000	0.000	0.000	0.000	0.000
2021	9	364,241.460	14,493.802	19.179	33,880.738	247,809.927	0.000	0.000	0.000	0.000	0.000	0.000
2021	10	321,452.920	14,493.802	1,066.511	10,138.932	239,573.361	0.000	0.000	0.000	0.000	0.000	0.000
2021	11	298,075.433	14,493.802	5,702.638	970.015	237,746.618	0.000	0.000	0.000	0.000	0.000	0.000
2021	12	330,682.866	14,493.802	13,534.998	12.482	262,183.726	0.000	0.000	0.000	0.000	0.000	0.000
2022	1	341,207.122	14,493.802	20,257.347	0.000	265,957.766	40.350	0.000	0.000	0.000	0.000	0.000
2022	2	317,514.630	14,493.802	21,787.326	0.000	239,423.373	0.000	1,352.272	0.000	0.000	0.000	0.000
2022	3	307,328.416	14,493.802	17,518.619	62.531	237,497.900	0.000	0.000	-2,702.293	0.000	0.000	0.000
2022	4	298,586.161	14,493.802	9,775.781	521.524	241,924.418	0.000	0.000	0.000	-8,587.222	0.000	0.000
2022	5	298,993.179	14,493.802	3,109.853	3,672.792	239,952.774	0.000	0.000	0.000	0.000	-2,693.899	0.000
2022	6	331,017.530	14,493.802	434.824	19,753.562	248,910.215	0.000	0.000	0.000	0.000	0.000	6,967.270
2022	7	363,409.246	14,493.802	5.395	45,601.092	248,608.558	0.000	0.000	0.000	0.000	0.000	0.000
2022	8	360,860.098	14,493.802	0.000	47,879.110	238,773.526	0.000	0.000	0.000	0.000	0.000	0.000
2022	9	363,379.299	14,493.802	19.302	33,914.939	246,913.441	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2025	7	362,147.452	14,493.802	5.108	45,463.328	247,484.815	0.000	0.000	0.000	0.000	0.000	0.000
2025	8	359,639.058	14,493.802	0.000	47,734.948	237,696.647	0.000	0.000	0.000	0.000	0.000	0.000
2025	9	362,178.996	14,493.802	18.276	33,814.809	245,814.294	0.000	0.000	0.000	0.000	0.000	0.000
2025	10	319,507.554	14,493.802	1,016.531	10,121.394	237,695.513	0.000	0.000	0.000	0.000	0.000	0.000
2025	11	296,001.400	14,493.802	5,436.710	968.571	235,939.959	0.000	0.000	0.000	0.000	0.000	0.000
2025	12	328,013.228	14,493.802	12,901.649	12.461	260,147.459	0.000	0.000	0.000	0.000	0.000	0.000
2026	1	337,455.500	14,493.802	18,842.384	0.000	263,621.106	40.350	0.000	0.000	0.000	0.000	0.000
2026	2	313,839.346	14,493.802	20,261.568	0.000	237,273.847	0.000	1,352.272	0.000	0.000	0.000	0.000
2026	3	303,923.754	14,493.802	16,288.859	62.318	235,323.211	0.000	0.000	-2,702.293	0.000	0.000	0.000
2026	4	295,642.365	14,493.802	9,088.068	519.666	239,670.193	0.000	0.000	0.000	-8,587.222	0.000	0.000
2026	5	296,492.648	14,493.802	2,890.690	3,659.218	237,684.979	0.000	0.000	0.000	0.000	-2,693.899	0.000
2026	6	328,533.716	14,493.802	404.138	19,678.513	246,532.135	0.000	0.000	0.000	0.000	0.000	6,967.270
2026	7	360,841.667	14,493.802	5.014	45,424.921	246,217.531	0.000	0.000	0.000	0.000	0.000	0.000
2026	8	358,371.296	14,493.802	0.000	47,692.898	236,470.936	0.000	0.000	0.000	0.000	0.000	0.000
2026	9	360,869.225	14,493.802	17.939	33,783.555	244,536.115	0.000	0.000	0.000	0.000	0.000	0.000
2026	10	318,233.216	14,493.802	997.722	10,111.620	236,449.757	0.000	0.000	0.000	0.000	0.000	0.000
2026	11	294,654.446	14,493.802	5,335.917	967.600	234,694.769	0.000	0.000	0.000	0.000	0.000	0.000
2026	12	326,402.634	14,493.802	12,662.534	12.449	258,775.992	0.000	0.000	0.000	0.000	0.000	0.000
2027	1	335,907.771	14,493.802	18,500.784	0.000	262,414.978	40.350	0.000	0.000	0.000	0.000	0.000
2027	2	312,393.530	14,493.802	19,894.790	0.000	236,194.809	0.000	1,352.272	0.000	0.000	0.000	0.000
2027	3	302,565.845	14,493.802	15,994.452	62.291	234,259.735	0.000	0.000	-2,702.293	0.000	0.000	0.000
2027	4	294,404.482	14,493.802	8,924.160	519.459	238,596.426	0.000	0.000	0.000	-8,587.222	0.000	0.000
2027	5	295,385.627	14,493.802	2,838.689	3,657.929	236,631.250	0.000	0.000	0.000	0.000	-2,693.899	0.000
2027	6	327,441.271	14,493.802	396.890	19,672.668	245,452.783	0.000	0.000	0.000	0.000	0.000	6,967.270
2027	7	359,768.850	14,493.802	4.924	45,414.357	245,155.367	0.000	0.000	0.000	0.000	0.000	0.000
2027	8	357,360.339	14,493.802	0.000	47,685.217	235,467.659	0.000	0.000	0.000	0.000	0.000	0.000
2027	9	359,847.956	14,493.802	17.621	33,780.793	243,517.926	0.000	0.000	0.000	0.000	0.000	0.000
2027	10	317,251.250	14,493.802	980.123	10,111.657	235,485.354	0.000	0.000	0.000	0.000	0.000	0.000
2027	11	293,623.781	14,493.802	5,242.246	967.687	233,757.687	0.000	0.000	0.000	0.000	0.000	0.000
2027	12	325,169.403	14,493.802	12,441.272	12.451	257,764.021	0.000	0.000	0.000	0.000	0.000	0.000
2028	1	334,743.702	14,493.802	18,173.729	0.000	261,577.963	40.350	0.000	0.000	0.000	0.000	0.000
2028	2	311,310.367	14,493.802	19,544.772	0.000	235,461.663	0.000	1,352.272	0.000	0.000	0.000	0.000
2028	3	301,577.944	14,493.802	15,714.352	62.346	233,551.880	0.000	0.000	-2,702.293	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2036	7	353,153.493	14,493.802	4.226	46,214.944	237,740.122	0.000	0.000	0.000	0.000	0.000	0.000
2036	8	351,070.596	14,493.802	0.000	48,524.409	228,338.725	0.000	0.000	0.000	0.000	0.000	0.000
2036	9	353,056.004	14,493.802	15.120	34,373.853	236,135.414	0.000	0.000	0.000	0.000	0.000	0.000
2036	10	310,137.411	14,493.802	841.002	10,288.607	228,333.685	0.000	0.000	0.000	0.000	0.000	0.000
2036	11	285,782.639	14,493.802	4,497.865	984.558	226,644.055	0.000	0.000	0.000	0.000	0.000	0.000
2036	12	315,539.338	14,493.802	10,673.855	12.667	249,901.156	0.000	0.000	0.000	0.000	0.000	0.000
2037	1	324,679.410	14,493.802	15,622.725	0.000	254,064.676	40.350	0.000	0.000	0.000	0.000	0.000
2037	2	301,789.878	14,493.802	16,800.367	0.000	228,685.579	0.000	1,352.272	0.000	0.000	0.000	0.000
2037	3	292,636.823	14,493.802	13,506.975	63.602	226,816.880	0.000	0.000	-2,702.293	0.000	0.000	0.000
2037	4	285,449.518	14,493.802	7,536.346	530.395	231,018.340	0.000	0.000	0.000	-8,587.222	0.000	0.000
2037	5	287,505.964	14,493.802	2,397.243	3,734.947	229,116.013	0.000	0.000	0.000	0.000	-2,693.899	0.000
2037	6	319,995.427	14,493.802	335.166	20,086.653	237,654.679	0.000	0.000	0.000	0.000	0.000	6,967.270
2037	7	352,928.327	14,493.802	4.158	46,368.932	237,361.035	0.000	0.000	0.000	0.000	0.000	0.000
2037	8	350,866.144	14,493.802	0.000	48,685.734	227,972.948	0.000	0.000	0.000	0.000	0.000	0.000
2037	9	352,790.665	14,493.802	14.879	34,487.991	235,756.179	0.000	0.000	0.000	0.000	0.000	0.000
2037	10	309,790.425	14,493.802	827.557	10,322.727	227,966.025	0.000	0.000	0.000	0.000	0.000	0.000
2037	11	285,348.684	14,493.802	4,425.947	987.822	226,278.754	0.000	0.000	0.000	0.000	0.000	0.000
2037	12	314,965.115	14,493.802	10,503.156	12.709	249,497.590	0.000	0.000	0.000	0.000	0.000	0.000
2038	1	324,160.369	14,493.802	15,369.016	0.000	253,799.343	40.350	0.000	0.000	0.000	0.000	0.000
2038	2	301,278.370	14,493.802	16,527.544	0.000	228,446.895	0.000	1,352.272	0.000	0.000	0.000	0.000
2038	3	292,181.776	14,493.802	13,287.678	63.830	226,580.903	0.000	0.000	-2,702.293	0.000	0.000	0.000
2038	4	285,089.207	14,493.802	7,414.003	532.299	230,778.467	0.000	0.000	0.000	-8,587.222	0.000	0.000
2038	5	287,242.160	14,493.802	2,358.323	3,748.352	228,877.725	0.000	0.000	0.000	0.000	-2,693.899	0.000
2038	6	319,815.421	14,493.802	329.725	20,158.784	237,407.983	0.000	0.000	0.000	0.000	0.000	6,967.270
2038	7	352,848.298	14,493.802	4.091	46,535.429	237,114.576	0.000	0.000	0.000	0.000	0.000	0.000
2038	8	350,803.835	14,493.802	0.000	48,860.476	227,735.896	0.000	0.000	0.000	0.000	0.000	0.000
2038	9	352,668.002	14,493.802	14.637	34,611.639	235,510.109	0.000	0.000	0.000	0.000	0.000	0.000
2038	10	309,575.476	14,493.802	814.116	10,359.712	227,727.532	0.000	0.000	0.000	0.000	0.000	0.000
2038	11	285,042.022	14,493.802	4,354.033	991.354	226,040.473	0.000	0.000	0.000	0.000	0.000	0.000
2038	12	314,533.493	14,493.802	10,332.566	12.754	249,236.513	0.000	0.000	0.000	0.000	0.000	0.000
2039	1	323,759.214	14,493.802	15,123.998	0.000	253,643.207	40.350	0.000	0.000	0.000	0.000	0.000
2039	2	300,876.776	14,493.802	16,264.218	0.000	228,308.626	0.000	1,352.272	0.000	0.000	0.000	0.000
2039	3	291,835.235	14,493.802	13,076.083	64.075	226,445.711	0.000	0.000	-2,702.293	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2042	1	321,661.327	14,493.802	14,441.797	0.000	252,227.520	40.350	0.000	0.000	0.000	0.000	0.000
2042	2	298,863.411	14,493.802	15,530.236	0.000	227,029.243	0.000	1,352.272	0.000	0.000	0.000	0.000
2042	3	289,970.553	14,493.802	12,485.643	64.821	225,170.723	0.000	0.000	-2,702.293	0.000	0.000	0.000
2042	4	283,209.042	14,493.802	6,966.362	540.559	229,337.683	0.000	0.000	0.000	-8,587.222	0.000	0.000
2042	5	285,724.743	14,493.802	2,215.892	3,806.445	227,444.645	0.000	0.000	0.000	0.000	-2,693.899	0.000
2042	6	318,614.837	14,493.802	309.803	20,470.685	235,915.419	0.000	0.000	0.000	0.000	0.000	6,967.270
2042	7	352,069.168	14,493.802	3.844	47,254.071	235,617.051	0.000	0.000	0.000	0.000	0.000	0.000
2042	8	350,111.725	14,493.802	0.000	49,613.520	226,290.743	0.000	0.000	0.000	0.000	0.000	0.000
2042	9	351,696.966	14,493.802	13.751	35,143.889	234,007.709	0.000	0.000	0.000	0.000	0.000	0.000
2042	10	308,224.253	14,493.802	764.829	10,518.644	226,266.664	0.000	0.000	0.000	0.000	0.000	0.000
2042	11	283,334.972	14,493.802	4,090.286	1,006.525	224,582.000	0.000	0.000	0.000	0.000	0.000	0.000
2042	12	312,280.331	14,493.802	9,705.938	12.949	247,609.784	0.000	0.000	0.000	0.000	0.000	0.000
2043	1	321,240.342	14,493.802	14,218.926	0.000	252,029.406	40.350	0.000	0.000	0.000	0.000	0.000
2043	2	298,433.470	14,493.802	15,289.814	0.000	226,839.725	0.000	1,352.272	0.000	0.000	0.000	0.000
2043	3	289,578.544	14,493.802	12,291.784	65.055	224,972.339	0.000	0.000	-2,702.293	0.000	0.000	0.000
2043	4	282,890.075	14,493.802	6,857.889	542.483	229,125.266	0.000	0.000	0.000	-8,587.222	0.000	0.000
2043	5	285,481.260	14,493.802	2,181.278	3,819.800	227,222.422	0.000	0.000	0.000	0.000	-2,693.899	0.000
2043	6	318,440.034	14,493.802	304.950	20,541.601	235,674.554	0.000	0.000	0.000	0.000	0.000	6,967.270
2043	7	351,980.345	14,493.802	3.783	47,415.776	235,366.584	0.000	0.000	0.000	0.000	0.000	0.000
2043	8	350,028.653	14,493.802	0.000	49,781.079	226,040.112	0.000	0.000	0.000	0.000	0.000	0.000
2043	9	351,544.738	14,493.802	13.534	35,261.070	233,738.517	0.000	0.000	0.000	0.000	0.000	0.000
2043	10	307,976.913	14,493.802	752.719	10,553.270	225,996.808	0.000	0.000	0.000	0.000	0.000	0.000
2043	11	282,995.683	14,493.802	4,025.347	1,009.794	224,304.381	0.000	0.000	0.000	0.000	0.000	0.000
2043	12	311,823.779	14,493.802	9,551.976	12.991	247,307.153	0.000	0.000	0.000	0.000	0.000	0.000
2044	1	320,870.593	14,493.802	14,000.105	0.000	251,878.479	40.350	0.000	0.000	0.000	0.000	0.000
2044	2	298,070.916	14,493.802	15,055.047	0.000	226,711.938	0.000	1,352.272	0.000	0.000	0.000	0.000
2044	3	289,271.794	14,493.802	12,103.484	65.287	224,853.657	0.000	0.000	-2,702.293	0.000	0.000	0.000
2044	4	282,671.753	14,493.802	6,752.994	544.426	229,009.895	0.000	0.000	0.000	-8,587.222	0.000	0.000
2044	5	285,353.927	14,493.802	2,147.976	3,833.595	227,114.596	0.000	0.000	0.000	0.000	-2,693.899	0.000
2044	6	318,403.770	14,493.802	300.302	20,616.271	235,568.268	0.000	0.000	0.000	0.000	0.000	6,967.270
2044	7	352,052.148	14,493.802	3.726	47,589.086	235,265.135	0.000	0.000	0.000	0.000	0.000	0.000
2044	8	350,119.245	14,493.802	0.000	49,964.133	225,947.650	0.000	0.000	0.000	0.000	0.000	0.000
2044	9	351,583.881	14,493.802	13.329	35,391.428	233,647.507	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2047	7	353,023.206	14,493.802	3,558	48,123.197	235,702.250	0.000	0.000	0.000	0.000	0.000	0.000
2047	8	351,084.587	14,493.802	0.000	50,522.121	226,355.004	0.000	0.000	0.000	0.000	0.000	0.000
2047	9	352,383.955	14,493.802	12.729	35,784.575	234,055.034	0.000	0.000	0.000	0.000	0.000	0.000
2047	10	308,385.138	14,493.802	707.902	10,709.512	226,293.607	0.000	0.000	0.000	0.000	0.000	0.000
2047	11	283,056.030	14,493.802	3,785.519	1,024.702	224,589.647	0.000	0.000	0.000	0.000	0.000	0.000
2047	12	311,555.229	14,493.802	8,982.380	13.182	247,608.008	0.000	0.000	0.000	0.000	0.000	0.000
2048	1	321,015.656	14,493.802	13,177.531	0.000	252,846.115	40.350	0.000	0.000	0.000	0.000	0.000
2048	2	298,041.691	14,493.802	14,169.575	0.000	227,568.185	0.000	1,352.272	0.000	0.000	0.000	0.000
2048	3	289,394.830	14,493.802	11,390.874	66.279	225,688.311	0.000	0.000	-2,702.293	0.000	0.000	0.000
2048	4	283,117.873	14,493.802	6,355.009	552.665	229,845.762	0.000	0.000	0.000	-8,587.222	0.000	0.000
2048	5	286,099.312	14,493.802	2,021.256	3,891.355	227,928.941	0.000	0.000	0.000	0.000	-2,693.899	0.000
2048	6	319,525.231	14,493.802	282.568	20,925.587	236,398.147	0.000	0.000	0.000	0.000	0.000	6,967.270
2048	7	353,578.387	14,493.802	3,505	48,300.310	236,080.370	0.000	0.000	0.000	0.000	0.000	0.000
2048	8	351,632.349	14,493.802	0.000	50,707.824	226,717.063	0.000	0.000	0.000	0.000	0.000	0.000
2048	9	352,888.780	14,493.802	12.539	35,915.989	234,428.634	0.000	0.000	0.000	0.000	0.000	0.000
2048	10	308,774.818	14,493.802	697.360	10,748.827	226,654.515	0.000	0.000	0.000	0.000	0.000	0.000
2048	11	283,361.204	14,493.802	3,729.141	1,028.462	224,947.440	0.000	0.000	0.000	0.000	0.000	0.000
2048	12	311,814.228	14,493.802	8,848.544	13.230	248,000.794	0.000	0.000	0.000	0.000	0.000	0.000
2049	1	320,005.082	14,493.802	12,919.883	0.000	252,093.189	40.350	0.000	0.000	0.000	0.000	0.000
2049	2	297,088.632	14,493.802	13,892.625	0.000	226,892.076	0.000	1,352.272	0.000	0.000	0.000	0.000
2049	3	288,514.698	14,493.802	11,168.856	66.183	225,030.293	0.000	0.000	-2,702.293	0.000	0.000	0.000
2049	4	282,352.552	14,493.802	6,231.922	551.939	229,204.253	0.000	0.000	0.000	-8,587.222	0.000	0.000
2049	5	285,470.272	14,493.802	1,982.545	3,887.103	227,342.865	0.000	0.000	0.000	0.000	-2,693.899	0.000
2049	6	318,974.760	14,493.802	277.248	20,909.689	235,868.894	0.000	0.000	0.000	0.000	0.000	6,967.270
2049	7	353,145.745	14,493.802	3,441	48,286.173	235,661.929	0.000	0.000	0.000	0.000	0.000	0.000
2049	8	351,384.770	14,493.802	0.000	50,723.930	226,453.377	0.000	0.000	0.000	0.000	0.000	0.000
2049	9	352,820.975	14,493.802	12.325	35,953.158	234,323.875	0.000	0.000	0.000	0.000	0.000	0.000
2049	10	308,864.971	14,493.802	686.015	10,768.641	226,736.199	0.000	0.000	0.000	0.000	0.000	0.000
2049	11	283,585.908	14,493.802	3,671.702	1,031.266	225,226.779	0.000	0.000	0.000	0.000	0.000	0.000
2049	12	312,225.842	14,493.802	8,720.385	13.279	248,540.519	0.000	0.000	0.000	0.000	0.000	0.000
2050	1	320,516.222	14,493.802	12,737.737	0.000	252,786.476	40.350	0.000	0.000	0.000	0.000	0.000
2050	2	297,519.673	14,493.802	13,696.931	0.000	227,518.811	0.000	1,352.272	0.000	0.000	0.000	0.000
2050	3	288,982.108	14,493.802	11,011.663	66.440	225,654.639	0.000	0.000	-2,702.293	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2050	4	282,904.278	14,493.802	6,144.249	554.081	229,841.510	0.000	0.000	0.000	-8,587.222	0.000	0.000
2050	5	286,091.474	14,493.802	1,954.669	3,902.222	227,976.822	0.000	0.000	0.000	0.000	-2,693.899	0.000
2050	6	319,712.189	14,493.802	273.352	20,991.202	236,528.705	0.000	0.000	0.000	0.000	0.000	6,967.270
2050	7	353,996.177	14,493.802	3.393	48,474.923	236,323.660	0.000	0.000	0.000	0.000	0.000	0.000
2050	8	352,221.442	14,493.802	0.000	50,922.671	227,091.309	0.000	0.000	0.000	0.000	0.000	0.000
2050	9	353,624.825	14,493.802	12.153	36,094.432	234,986.624	0.000	0.000	0.000	0.000	0.000	0.000
2050	10	309,542.140	14,493.802	676.405	10,811.099	227,380.520	0.000	0.000	0.000	0.000	0.000	0.000
2050	11	284,181.690	14,493.802	3,620.318	1,035.346	225,869.865	0.000	0.000	0.000	0.000	0.000	0.000
2050	12	312,816.702	14,493.802	8,598.452	13.331	249,253.259	0.000	0.000	0.000	0.000	0.000	0.000
2051	1	321,072.530	14,493.802	12,558.739	0.000	253,521.781	40.350	0.000	0.000	0.000	0.000	0.000
2051	2	297,994.083	14,493.802	13,504.737	0.000	228,185.414	0.000	1,352.272	0.000	0.000	0.000	0.000
2051	3	289,493.885	14,493.802	10,857.373	66.702	226,320.444	0.000	0.000	-2,702.293	0.000	0.000	0.000
2051	4	283,501.990	14,493.802	6,058.247	556.272	230,523.033	0.000	0.000	0.000	-8,587.222	0.000	0.000
2051	5	286,759.507	14,493.802	1,927.342	3,917.718	228,656.687	0.000	0.000	0.000	0.000	-2,693.899	0.000
2051	6	320,501.589	14,493.802	269.536	21,074.923	237,238.201	0.000	0.000	0.000	0.000	0.000	6,967.270
2051	7	354,903.754	14,493.802	3.345	48,669.180	237,037.027	0.000	0.000	0.000	0.000	0.000	0.000
2051	8	353,115.868	14,493.802	0.000	51,127.628	227,780.778	0.000	0.000	0.000	0.000	0.000	0.000
2051	9	354,488.800	14,493.802	11.984	36,240.430	235,704.769	0.000	0.000	0.000	0.000	0.000	0.000
2051	10	310,276.616	14,493.802	667.012	10,855.067	228,080.421	0.000	0.000	0.000	0.000	0.000	0.000
2051	11	284,836.064	14,493.802	3,570.126	1,039.580	226,570.197	0.000	0.000	0.000	0.000	0.000	0.000
2051	12	313,475.569	14,493.802	8,479.413	13.386	250,031.111	0.000	0.000	0.000	0.000	0.000	0.000
2052	1	321,698.099	14,493.802	12,383.942	0.000	254,322.148	40.350	0.000	0.000	0.000	0.000	0.000
2052	2	298,530.748	14,493.802	13,317.007	0.000	228,909.809	0.000	1,352.272	0.000	0.000	0.000	0.000
2052	3	290,065.841	14,493.802	10,706.630	66.973	227,042.872	0.000	0.000	-2,702.293	0.000	0.000	0.000
2052	4	284,158.644	14,493.802	5,974.202	558.542	231,261.463	0.000	0.000	0.000	-8,587.222	0.000	0.000
2052	5	287,484.362	14,493.802	1,900.630	3,933.756	229,392.216	0.000	0.000	0.000	0.000	-2,693.899	0.000
2052	6	321,350.895	14,493.802	265.804	21,161.498	238,004.665	0.000	0.000	0.000	0.000	0.000	6,967.270
2052	7	355,873.905	14,493.802	3.299	48,869.870	237,806.534	0.000	0.000	0.000	0.000	0.000	0.000
2052	8	354,070.088	14,493.802	0.000	51,339.177	228,523.449	0.000	0.000	0.000	0.000	0.000	0.000
2052	9	355,411.551	14,493.802	11.818	36,390.976	236,477.140	0.000	0.000	0.000	0.000	0.000	0.000
2052	10	311,064.289	14,493.802	657.819	10,900.359	228,831.995	0.000	0.000	0.000	0.000	0.000	0.000
2052	11	285,542.127	14,493.802	3,520.986	1,043.937	227,321.042	0.000	0.000	0.000	0.000	0.000	0.000
2052	12	314,191.865	14,493.802	8,362.842	13.442	250,863.921	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2053	1	322,381.216	14,493.802	12,212.691	0.000	255,176.516	40.350	0.000	0.000	0.000	0.000	0.000
2053	2	299,118.290	14,493.802	13,132.999	0.000	229,681.360	0.000	1,352.272	0.000	0.000	0.000	0.000
2053	3	290,686.166	14,493.802	10,558.812	67.251	227,810.737	0.000	0.000	-2,702.293	0.000	0.000	0.000
2053	4	284,861.773	14,493.802	5,891.749	560.862	232,044.725	0.000	0.000	0.000	-8,587.222	0.000	0.000
2053	5	288,253.046	14,493.802	1,874.412	3,950.121	230,170.753	0.000	0.000	0.000	0.000	-2,693.899	0.000
2053	6	322,245.032	14,493.802	262.139	21,249.696	238,814.267	0.000	0.000	0.000	0.000	0.000	6,967.270
2053	7	356,889.138	14,493.802	3.254	49,074.008	238,617.675	0.000	0.000	0.000	0.000	0.000	0.000
2053	8	355,066.209	14,493.802	0.000	51,554.032	229,304.714	0.000	0.000	0.000	0.000	0.000	0.000
2053	9	356,374.787	14,493.802	11.656	36,543.625	237,287.889	0.000	0.000	0.000	0.000	0.000	0.000
2053	10	311,888.295	14,493.802	648.775	10,946.210	229,619.195	0.000	0.000	0.000	0.000	0.000	0.000
2053	11	286,282.839	14,493.802	3,472.616	1,048.340	228,105.721	0.000	0.000	0.000	0.000	0.000	0.000
2053	12	314,945.780	14,493.802	8,248.045	13.499	251,732.576	0.000	0.000	0.000	0.000	0.000	0.000
2054	1	323,103.092	14,493.802	12,044.049	0.000	256,067.033	40.350	0.000	0.000	0.000	0.000	0.000
2054	2	299,741.203	14,493.802	12,951.794	0.000	230,485.478	0.000	1,352.272	0.000	0.000	0.000	0.000
2054	3	291,341.093	14,493.802	10,413.245	67.531	228,610.950	0.000	0.000	-2,702.293	0.000	0.000	0.000
2054	4	285,599.154	14,493.802	5,810.552	563.202	232,860.962	0.000	0.000	0.000	-8,587.222	0.000	0.000
2054	5	289,054.994	14,493.802	1,848.592	3,966.635	230,982.007	0.000	0.000	0.000	0.000	-2,693.899	0.000
2054	6	323,173.999	14,493.802	258.530	21,338.697	239,657.842	0.000	0.000	0.000	0.000	0.000	6,967.270
2054	7	357,940.195	14,493.802	3.209	49,280.004	239,462.781	0.000	0.000	0.000	0.000	0.000	0.000
2054	8	356,096.959	14,493.802	0.000	51,770.847	230,118.650	0.000	0.000	0.000	0.000	0.000	0.000
2054	9	357,373.251	14,493.802	11.495	36,697.668	238,132.470	0.000	0.000	0.000	0.000	0.000	0.000
2054	10	312,745.623	14,493.802	639.868	10,992.480	230,439.160	0.000	0.000	0.000	0.000	0.000	0.000
2054	11	287,056.911	14,493.802	3,424.982	1,052.784	228,922.985	0.000	0.000	0.000	0.000	0.000	0.000
2054	12	315,737.436	14,493.802	8,134.993	13.557	252,637.227	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2009	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22,692.834	13,326.134
2009	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22,692.834	13,326.134
2009	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2009	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2010	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2011	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2011	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2012	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2013	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2014	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2014	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2015	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2016	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2017	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2017	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2018	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2019	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2020	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2021	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2022	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2022	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2023	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2024	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2025	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2025	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2026	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2027	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2028	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2028	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2029	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2030	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2031	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2032	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2033	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2033	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2034	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2035	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2036	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2036	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2037	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2038	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2039	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2039	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2040	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2041	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2042	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2042	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2043	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2044	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2044	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2045	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2046	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2047	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2047	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2048	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2049	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2050	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2050	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2051	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2052	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Jun-99	Mar09on	May-99	D07on	D00on
2053	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2053	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	1	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	2	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	3	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	4	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	5	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	6	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	7	14,242.542	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	8	0.000	19,255.803	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	9	0.000	0.000	27,579.957	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	10	0.000	0.000	0.000	15,722.456	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	11	0.000	0.000	0.000	0.000	-1,295.498	0.000	6,770.975	0.000	22,692.834	13,326.134
2054	12	0.000	0.000	0.000	0.000	0.000	0.000	6,770.975	0.000	22,692.834	13,326.134

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
1998	1	0.000	0.000	0.000	0.000	22,180.821	0.000	315,954.764	338,135.584
1998	2	0.000	0.000	0.000	0.000	22,666.743	0.000	286,810.952	309,477.695
1998	3	0.000	0.000	0.000	0.000	18,668.603	0.000	281,370.556	300,039.159
1998	4	0.000	0.000	0.000	0.000	11,823.394	899.125	279,161.268	291,883.788
1998	5	0.000	0.000	0.000	0.000	2,695.963	4,022.921	284,290.979	291,009.862
1998	6	0.000	0.000	0.000	0.000	148.124	23,588.538	305,196.705	328,933.367
1998	7	0.000	0.000	0.000	0.000	52.682	51,903.957	310,472.405	362,429.043
1998	8	0.000	0.000	0.000	0.000	0.000	41,223.357	301,630.808	342,854.165
1998	9	0.000	0.000	0.000	0.000	0.000	35,694.009	323,850.123	359,544.132
1998	10	0.000	0.000	0.000	0.000	740.426	17,691.659	299,339.478	317,771.564
1998	11	0.000	0.000	0.000	0.000	6,576.732	1,127.920	276,719.962	284,424.614
1998	12	0.000	0.000	0.000	0.000	11,741.104	0.000	308,698.684	320,439.788
1999	1	0.000	0.000	0.000	0.000	29,323.267	0.000	318,714.267	348,037.534
1999	2	0.000	0.000	0.000	0.000	24,943.632	0.000	288,812.991	313,756.623
1999	3	0.000	0.000	0.000	0.000	23,316.499	0.000	283,165.606	306,482.106
1999	4	0.000	0.000	0.000	0.000	13,780.448	0.000	280,758.897	294,539.344
1999	5	0.000	0.000	0.000	0.000	3,301.657	2,249.512	327,967.401	333,518.570
1999	6	0.000	0.000	0.000	0.000	185.087	22,743.016	273,942.222	296,870.325
1999	7	0.000	0.000	0.000	0.000	0.000	54,318.779	311,891.429	366,210.208
1999	8	0.000	0.000	0.000	0.000	0.000	68,403.185	303,086.513	371,489.698
1999	9	0.000	0.000	0.000	0.000	8.521	26,667.528	325,595.569	352,271.619
1999	10	0.000	0.000	0.000	0.000	1,578.238	8,402.512	301,259.260	311,240.009
1999	11	0.000	0.000	0.000	0.000	6,211.962	215.104	278,943.615	285,370.682
1999	12	0.000	0.000	0.000	0.000	13,655.309	0.000	311,538.154	325,193.464
2000	1	0.000	0.000	0.000	0.000	24,725.047	0.000	335,368.097	360,093.144
2000	2	0.000	0.000	0.000	0.000	32,694.169	0.000	305,526.540	338,220.709
2000	3	0.000	0.000	0.000	0.000	15,699.421	0.000	300,076.907	315,776.328
2000	4	0.000	0.000	0.000	0.000	9,631.101	0.000	297,849.851	307,480.952
2000	5	0.000	0.000	0.000	0.000	3,411.141	7,096.642	302,902.756	313,410.538
2000	6	0.000	0.000	0.000	0.000	254.279	16,683.868	323,817.850	340,755.997
2000	7	0.000	0.000	0.000	0.000	9.413	36,288.699	328,813.054	365,111.166
2000	8	0.000	0.000	0.000	0.000	0.000	38,330.415	319,488.457	357,818.872
2000	9	0.000	0.000	0.000	0.000	28.180	32,909.612	341,627.380	374,565.172

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2000	10	0.000	0.000	0.000	0.000	1,510.223	7,595.996	316,668.334	325,774.553
2000	11	0.000	0.000	0.000	0.000	5,245.961	1,013.851	293,708.385	299,968.197
2000	12	0.000	0.000	0.000	0.000	23,504.099	0.000	325,799.274	349,303.373
2001	1	0.000	0.000	0.000	0.000	34,849.407	0.000	335,605.721	370,455.128
2001	2	0.000	0.000	0.000	0.000	26,197.475	0.000	305,048.979	331,246.454
2001	3	0.000	0.000	0.000	0.000	20,937.886	0.000	299,022.120	319,960.006
2001	4	0.000	0.000	0.000	0.000	13,954.280	1,403.816	296,300.818	311,658.914
2001	5	0.000	0.000	0.000	0.000	2,796.099	7,522.269	301,016.530	311,334.899
2001	6	0.000	0.000	0.000	0.000	301.632	12,562.519	321,587.577	334,451.728
2001	7	0.000	0.000	0.000	0.000	52.613	36,779.319	326,642.665	363,474.597
2001	8	0.000	0.000	0.000	0.000	0.000	55,405.095	317,620.233	373,025.328
2001	9	0.000	0.000	0.000	0.000	13.151	30,849.076	339,999.295	370,861.522
2001	10	0.000	0.000	0.000	0.000	1,564.313	4,203.227	315,551.722	321,319.263
2001	11	0.000	0.000	0.000	0.000	5,523.408	135.009	293,108.739	298,767.156
2001	12	0.000	0.000	0.000	0.000	9,269.014	0.000	325,795.475	335,064.489
2002	1	0.000	0.000	0.000	0.000	21,728.301	0.000	336,839.349	358,567.650
2002	2	0.000	0.000	0.000	0.000	18,560.664	0.000	306,929.039	325,489.703
2002	3	0.000	0.000	0.000	0.000	18,319.147	0.000	301,453.091	319,772.238
2002	4	0.000	0.000	0.000	0.000	13,934.758	2,613.066	299,426.507	315,974.331
2002	5	0.000	0.000	0.000	0.000	4,415.765	6,147.382	304,652.474	315,215.622
2002	6	0.000	0.000	0.000	0.000	1,651.513	15,002.990	326,152.648	342,807.151
2002	7	0.000	0.000	0.000	0.000	0.000	58,829.142	331,675.055	390,504.197
2002	8	0.000	0.000	0.000	0.000	0.000	65,244.452	322,822.707	388,067.159
2002	9	0.000	0.000	0.000	0.000	7.061	41,938.110	345,716.540	387,661.712
2002	10	0.000	0.000	0.000	0.000	1,501.223	16,315.951	321,180.381	338,997.555
2002	11	0.000	0.000	0.000	0.000	10,158.075	1,058.839	298,722.999	309,939.914
2002	12	0.000	0.000	0.000	0.000	20,408.712	0.000	332,093.983	352,502.696
2003	1	0.000	0.000	0.000	0.000	25,398.334	0.000	342,839.304	368,237.638
2003	2	0.000	0.000	0.000	0.000	32,839.800	0.000	312,180.987	345,020.787
2003	3	0.000	0.000	0.000	0.000	27,836.154	0.000	306,657.044	334,493.199
2003	4	0.000	0.000	0.000	0.000	11,349.099	72.407	304,558.775	315,980.281
2003	5	0.000	0.000	0.000	0.000	4,104.850	751.090	309,708.713	314,564.654
2003	6	0.000	0.000	0.000	0.000	484.405	4,186.832	331,105.311	335,776.549

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2003	7	0.000	0.000	0.000	0.000	5.018	34,221.819	336,767.713	370,994.549
2003	8	0.000	0.000	0.000	0.000	0.000	39,685.284	325,871.507	365,556.791
2003	9	0.000	0.000	0.000	0.000	1.004	35,031.983	356,799.058	391,832.046
2003	10	0.000	0.000	0.000	0.000	2,489.725	3,771.691	321,062.432	327,323.848
2003	11	0.000	0.000	0.000	0.000	6,877.459	171.768	299,629.359	306,678.585
2003	12	0.000	0.000	0.000	0.000	15,727.473	26.427	336,279.194	352,033.094
2004	1	0.000	0.000	0.000	0.000	23,098.246	0.000	349,225.175	372,323.421
2004	2	0.000	0.000	0.000	0.000	32,631.092	0.000	315,898.376	348,529.468
2004	3	0.000	0.000	0.000	0.000	20,838.152	0.000	310,150.804	330,988.956
2004	4	0.000	0.000	0.000	0.000	10,480.807	725.611	311,195.928	322,402.347
2004	5	0.000	0.000	0.000	0.000	3,149.496	8,091.493	313,771.282	325,012.271
2004	6	0.000	0.000	0.000	0.000	275.182	19,986.215	335,330.202	355,591.599
2004	7	0.000	0.000	0.000	0.000	0.000	31,307.750	338,433.303	369,741.053
2004	8	0.000	0.000	0.000	0.000	0.000	28,136.484	329,012.232	357,148.716
2004	9	0.000	0.000	0.000	0.000	0.000	25,058.479	351,938.216	376,996.695
2004	10	0.000	0.000	0.000	0.000	1,447.258	8,765.253	327,783.317	337,995.827
2004	11	0.000	0.000	0.000	0.000	4,903.991	558.770	306,291.296	311,754.056
2004	12	0.000	0.000	0.000	0.000	14,268.501	39.891	342,487.523	356,795.916
2005	1	0.000	0.000	0.000	0.000	25,246.154	0.000	347,088.648	372,334.802
2005	2	0.000	0.000	0.000	0.000	28,554.236	0.000	316,360.416	344,914.652
2005	3	0.000	0.000	0.000	0.000	22,782.763	0.000	312,573.952	335,356.715
2005	4	0.000	0.000	0.000	0.000	12,197.500	192.696	314,025.743	326,415.940
2005	5	0.000	0.000	0.000	0.000	5,045.437	2,256.568	311,253.297	318,555.302
2005	6	0.000	0.000	0.000	0.000	840.241	17,550.806	336,645.497	355,036.543
2005	7	0.000	0.000	0.000	0.000	0.000	56,538.708	343,631.939	400,170.646
2005	8	0.000	0.000	0.000	0.000	0.000	63,705.189	330,764.261	394,469.450
2005	9	0.000	0.000	0.000	0.000	0.000	39,005.153	350,180.974	389,186.127
2005	10	0.000	0.000	0.000	0.000	690.373	18,132.054	333,442.222	352,264.650
2005	11	0.000	0.000	0.000	0.000	6,085.156	1,468.173	308,018.607	315,571.936
2005	12	0.000	0.000	0.000	0.000	21,460.049	0.000	336,713.997	358,174.046
2006	1	0.000	0.000	0.000	0.000	22,153.913	0.000	349,380.924	371,534.837
2006	2	0.000	0.000	0.000	0.000	18,218.265	0.000	319,427.019	337,645.283
2006	3	0.000	0.000	0.000	0.000	20,364.748	0.000	311,902.949	332,267.697

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2006	4	0.000	0.000	0.000	0.000	11,477.561	200.444	302,950.877	314,628.881
2006	5	0.000	0.000	0.000	0.000	2,450.796	387.863	318,290.692	321,129.351
2006	6	0.000	0.000	0.000	0.000	945.601	17,426.486	335,800.290	354,172.378
2006	7	0.000	0.000	0.000	0.000	0.000	40,324.917	340,816.639	381,141.556
2006	8	0.000	0.000	0.000	0.000	0.000	60,313.205	335,816.866	396,130.071
2006	9	0.000	0.000	0.000	0.000	53.893	25,047.526	354,672.271	379,773.691
2006	10	0.000	0.000	0.000	0.000	1,861.790	2,311.182	328,096.360	332,269.332
2006	11	0.000	0.000	0.000	0.000	9,709.814	211.012	316,631.050	326,551.876
2006	12	0.000	0.000	0.000	0.000	14,236.972	0.000	337,611.403	351,848.374
2007	1	0.000	0.000	0.000	0.000	15,945.023	0.000	370,136.899	386,081.922
2007	2	0.000	0.000	0.000	0.000	28,949.363	0.000	346,959.796	375,909.159
2007	3	0.000	0.000	0.000	0.000	26,583.258	13.398	332,834.011	359,430.668
2007	4	0.000	0.000	0.000	0.000	10,002.085	844.389	335,425.434	346,271.908
2007	5	0.000	0.000	0.000	0.000	3,799.642	4,256.658	334,552.572	342,608.872
2007	6	0.000	0.000	0.000	0.000	259.036	29,961.599	354,151.892	384,372.527
2007	7	0.000	0.000	0.000	0.000	0.000	44,081.689	364,970.186	409,051.875
2007	8	0.000	0.000	0.000	0.000	0.000	52,355.718	358,988.343	411,344.061
2007	9	0.000	0.000	0.000	0.000	46.104	43,770.380	375,854.018	419,670.503
2007	10	0.000	0.000	0.000	0.000	464.298	21,501.491	353,276.177	375,241.966
2007	11	0.000	0.000	0.000	0.000	5,655.455	4,559.355	335,019.456	345,234.266
2007	12	0.000	0.000	0.000	0.000	17,824.147	0.000	361,021.531	378,845.678
2008	1	0.000	0.000	0.000	0.000	21,498.041	0.000	365,594.427	387,092.468
2008	2	0.000	0.000	0.000	0.000	25,730.165	0.000	340,001.725	365,731.891
2008	3	0.000	0.000	0.000	0.000	24,404.504	0.000	330,309.724	354,714.228
2008	4	0.000	0.000	0.000	0.000	12,870.649	49.905	323,857.131	336,777.685
2008	5	0.000	0.000	0.000	0.000	3,113.492	1,958.336	325,531.203	330,603.032
2008	6	0.000	0.000	0.000	0.000	717.380	19,343.717	351,425.056	371,486.153
2008	7	0.000	0.000	0.000	0.000	0.921	37,346.606	359,259.374	396,606.901
2008	8	0.000	0.000	0.000	0.000	0.000	46,983.608	343,140.755	390,124.363
2008	9	0.000	0.000	0.000	0.000	0.000	34,730.499	360,652.111	395,382.610
2008	10	0.000	0.000	0.000	0.000	807.095	9,389.821	340,772.273	350,969.189
2008	11	0.000	0.000	0.000	0.000	6,464.922	606.284	326,897.266	333,968.473
2008	12	0.000	0.000	0.000	0.000	19,222.009	0.000	346,202.694	365,424.702

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2009	1	0.000	0.000	0.000	0.000	24,327.053	0.000	350,087.666	374,414.719
2009	2	0.000	0.000	0.000	0.000	28,645.240	0.000	321,926.620	350,571.860
2009	3	0.000	0.000	0.000	0.000	17,228.675	0.000	316,613.104	333,841.779
2009	4	0.000	0.000	0.000	0.000	8,881.671	103.952	314,297.677	323,283.301
2009	5	0.000	0.000	0.000	0.000	3,416.641	5,187.106	317,293.421	325,897.167
2009	6	0.000	0.000	0.000	0.000	367.721	13,043.784	333,476.932	346,888.438
2009	7	0.000	0.000	0.000	0.000	0.000	36,811.669	347,400.036	384,211.705
2009	8	0.000	0.000	0.000	0.000	0.000	29,566.635	336,494.369	366,061.004
2009	9	0.000	0.000	0.000	0.000	0.000	21,239.765	353,983.809	375,223.575
2009	10	0.000	0.000	0.000	0.000	1,967.196	6,439.360	341,798.723	350,205.278
2009	11	0.000	0.000	0.000	0.000	5,363.252	0.000	316,182.776	321,546.028
2009	12	0.000	0.000	0.000	0.000	12,535.252	0.000	346,398.907	358,934.159
2010	1	0.000	0.000	0.000	0.000	23,468.641	0.000	353,261.273	376,729.915
2010	2	0.000	0.000	0.000	0.000	24,142.241	0.000	318,923.898	343,066.139
2010	3	0.000	0.000	0.000	0.000	18,404.785	0.000	312,916.931	331,321.716
2010	4	0.000	0.000	0.000	0.000	6,202.547	1,661.084	321,517.808	329,381.439
2010	5	0.000	0.000	0.000	0.000	1,457.339	3,854.885	319,500.089	324,812.313
2010	6	0.000	0.000	0.000	0.000	297.527	35,429.200	341,235.078	376,961.806
2010	7	0.000	0.000	0.000	0.000	0.000	63,689.089	346,829.343	410,518.431
2010	8	0.000	0.000	0.000	0.000	0.000	71,702.995	342,887.286	414,590.280
2010	9	0.000	0.000	0.000	0.000	0.000	43,802.119	358,713.759	402,515.878
2010	10	0.000	0.000	0.000	0.000	686.240	12,779.472	340,418.505	353,884.216
2010	11	-48,420.767	0.000	0.000	0.000	5,302.777	1,143.529	271,202.765	277,649.071
2010	12	0.000	0.000	0.000	0.000	17,208.294	0.000	348,579.212	365,787.506
2011	1	0.000	0.000	0.000	0.000	24,927.248	0.000	348,146.587	373,073.835
2011	2	0.000	0.000	0.000	0.000	26,879.156	0.000	325,785.877	352,665.033
2011	3	0.000	0.000	0.000	0.000	18,320.683	0.000	309,375.824	327,696.508
2011	4	0.000	0.000	0.000	0.000	10,601.505	412.278	297,840.139	308,853.922
2011	5	0.000	0.000	0.000	0.000	3,269.300	3,362.381	322,757.020	329,388.702
2011	6	0.000	0.000	0.000	0.000	456.359	30,395.204	341,633.984	372,485.547
2011	7	0.000	0.000	0.000	0.000	0.000	56,179.950	341,565.908	397,745.858
2011	8	0.000	0.000	0.000	0.000	0.000	80,496.736	343,631.248	424,127.984
2011	9	0.000	358.008	0.000	0.000	69.719	37,825.432	354,728.417	392,623.568

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2011	10	0.000	358.008	0.000	0.000	837.125	5,084.863	333,264.273	339,186.260
2011	11	0.000	358.008	0.000	0.000	4,706.762	156.781	311,372.110	316,235.653
2011	12	0.000	358.008	0.000	0.000	11,130.305	0.000	343,256.653	354,386.959
2012	1	0.000	358.008	0.000	0.000	16,469.795	0.000	341,260.644	357,730.439
2012	2	0.000	358.008	0.000	0.000	18,822.600	0.000	312,270.939	331,093.539
2012	3	0.000	358.008	0.000	0.000	13,284.355	1,292.232	310,440.281	325,016.868
2012	4	0.000	358.008	0.000	0.000	3,515.378	4,173.352	315,123.520	322,812.250
2012	5	0.000	358.008	0.000	0.000	2,649.037	5,326.352	314,159.820	322,135.209
2012	6	0.000	358.008	0.000	0.000	88.158	30,203.469	332,084.209	362,375.836
2012	7	0.000	358.008	0.000	0.000	8.316	72,861.604	338,506.342	411,376.262
2012	8	0.000	358.008	0.000	0.000	0.000	63,422.704	335,805.047	399,227.751
2012	9	0.000	358.008	0.000	0.000	56.947	31,139.958	349,971.100	381,168.005
2012	10	0.000	358.008	0.000	0.000	1,895.856	4,599.936	327,748.365	334,244.157
2012	11	0.000	358.008	0.000	0.000	7,018.699	449.837	312,524.031	319,992.567
2012	12	0.000	358.008	0.000	0.000	11,868.275	0.000	330,779.399	342,647.674
2013	1	0.000	358.008	0.000	0.000	18,408.306	0.000	336,066.774	354,475.080
2013	2	0.000	358.008	0.000	0.000	21,175.540	0.000	311,719.370	332,894.911
2013	3	0.000	358.008	0.000	0.000	19,099.468	0.000	312,912.976	332,012.444
2013	4	0.000	358.008	0.000	0.000	13,071.909	0.000	306,559.311	319,631.220
2013	5	0.000	358.008	0.000	0.000	3,360.166	4,327.577	306,593.848	314,281.592
2013	6	0.000	358.008	0.000	0.000	344.397	22,984.837	329,927.185	353,256.419
2013	7	0.000	358.008	0.000	0.000	0.000	46,634.038	333,932.027	380,566.066
2013	8	0.000	358.008	0.000	0.000	0.000	36,775.501	331,387.844	368,163.346
2013	9	0.000	358.008	0.000	0.000	15.974	36,103.060	346,916.793	383,035.827
2013	10	0.000	358.008	0.000	0.000	541.917	13,208.271	328,803.799	342,553.987
2013	11	0.000	358.008	0.000	0.000	6,700.365	1,178.366	310,928.999	318,807.730
2013	12	0.000	358.008	0.000	0.000	16,723.655	0.000	332,616.742	349,340.396
2014	1	0.000	358.008	0.000	0.000	23,952.882	0.000	344,616.719	368,569.601
2014	2	0.000	358.008	0.000	0.000	29,441.248	0.000	309,895.487	339,336.734
2014	3	0.000	358.008	0.000	0.000	25,500.439	0.000	306,321.553	331,821.992
2014	4	0.000	358.008	0.000	0.000	13,167.476	0.000	302,344.748	315,512.224
2014	5	0.000	358.008	0.000	0.000	3,226.218	3,054.080	315,695.565	321,975.863
2014	6	0.000	358.008	0.000	0.000	653.953	23,487.889	325,848.608	349,990.450

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2014	7	0.000	358.008	0.000	0.000	0.000	43,943.376	332,241.736	376,185.112
2014	8	0.000	358.008	0.000	0.000	0.000	28,193.078	329,591.571	357,784.649
2014	9	0.000	358.008	0.000	0.000	41.935	35,236.720	346,268.549	381,547.204
2014	10	0.000	358.008	0.000	0.000	1,172.452	3,680.518	325,116.452	329,969.422
2014	11	0.000	358.008	0.000	0.000	7,127.275	70.620	307,097.816	314,295.711
2014	12	0.000	358.008	0.000	0.000	16,802.546	0.000	333,991.941	350,794.487
2015	1	0.000	358.008	0.000	0.000	20,909.804	0.000	336,370.448	357,280.252
2015	2	0.000	358.008	0.000	0.000	25,169.219	0.000	308,237.047	333,406.266
2015	3	0.000	358.008	0.000	0.000	26,097.096	0.000	304,558.939	330,656.035
2015	4	0.000	358.008	0.000	0.000	10,770.986	0.000	307,965.830	318,736.816
2015	5	0.000	358.008	0.000	0.000	2,845.153	6,003.316	308,118.595	316,967.064
2015	6	0.000	358.008	0.000	0.000	288.070	24,856.122	322,894.055	348,038.247
2015	7	0.000	358.008	-2,690.095	0.000	2.051	32,495.911	330,183.918	362,681.880
2015	8	0.000	358.008	-2,690.095	0.000	0.000	45,386.010	321,154.924	366,540.933
2015	9	0.000	358.008	-2,690.095	0.000	0.000	35,490.023	342,590.016	378,080.038
2015	10	0.000	358.008	-2,690.095	0.000	545.954	11,749.137	318,290.592	330,585.683
2015	11	0.000	358.008	-2,690.095	0.000	3,522.138	309.716	301,229.940	305,061.794
2015	12	0.000	358.008	-2,690.095	0.000	9,850.753	0.000	335,024.266	344,875.019
2016	1	0.000	358.008	-2,690.095	0.000	14,948.201	0.000	329,586.877	344,535.078
2016	2	0.000	358.008	-2,690.095	0.000	20,778.439	0.000	306,081.739	326,860.178
2016	3	0.000	358.008	-2,690.095	0.000	14,208.750	0.000	301,820.861	316,029.612
2016	4	0.000	358.008	-2,690.095	0.000	7,667.467	0.000	301,509.409	309,176.876
2016	5	0.000	358.008	-2,690.095	0.000	3,092.801	360.784	300,638.263	304,091.848
2016	6	0.000	358.008	-2,690.095	0.000	546.651	26,156.411	320,874.760	347,577.822
2016	7	0.000	358.008	-2,690.095	0.000	0.000	43,897.413	327,979.217	371,876.631
2016	8	0.000	358.008	-2,690.095	0.000	0.000	64,860.182	324,084.502	388,944.684
2016	9	0.000	358.008	-2,690.095	0.000	0.000	48,768.142	339,169.570	387,937.712
2016	10	0.000	358.008	-2,690.095	0.000	186.493	19,025.258	321,032.328	340,244.079
2016	11	0.000	358.008	-2,690.095	0.000	3,059.995	3,199.781	301,465.514	307,725.290
2016	12	0.000	358.008	-2,690.095	0.000	13,612.300	127.561	334,667.753	348,407.614
2017	1	0.000	358.008	-2,690.095	0.000	20,190.139	0.000	331,703.510	351,893.649
2017	2	0.000	358.008	-2,690.095	0.000	15,451.770	0.000	302,987.407	318,439.177
2017	3	0.000	358.008	-2,690.095	0.000	11,814.346	0.000	298,941.483	310,755.828

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2017	4	0.000	358.008	-2,690.095	0.000	8,335.687	813.944	296,313.006	305,462.637
2017	5	0.000	358.008	-2,690.095	0.000	2,174.702	5,380.170	297,161.531	304,716.403
2017	6	0.000	358.008	-2,690.095	0.000	426.197	20,574.808	318,552.808	339,553.813
2017	7	0.000	358.008	-2,690.095	0.000	0.000	45,062.940	328,508.876	373,571.816
2017	8	0.000	358.008	-2,690.095	0.000	0.000	42,095.471	326,707.778	368,803.249
2017	9	0.000	358.008	-2,690.095	0.000	0.000	20,284.626	338,395.377	358,680.003
2017	10	0.000	358.008	-2,690.095	0.000	100.148	21,322.352	322,422.697	343,845.197
2017	11	0.000	358.008	-2,690.095	0.000	5,973.989	2,298.080	299,101.655	307,373.724
2017	12	0.000	358.008	-2,690.095	0.000	12,686.101	0.000	333,193.905	345,880.005
2018	1	0.000	358.008	-2,690.095	0.000	25,425.001	0.000	329,461.238	354,886.239
2018	2	0.000	358.008	-2,690.095	0.000	21,256.013	0.000	302,165.667	323,421.681
2018	3	0.000	358.008	-2,690.095	0.000	14,673.921	0.000	297,697.856	312,371.777
2018	4	0.000	358.008	-2,690.095	0.000	12,960.046	82.966	301,493.040	314,536.052
2018	5	0.000	358.008	-2,690.095	0.000	4,449.841	4,606.398	301,746.739	310,802.978
2018	6	0.000	358.008	-2,690.095	0.000	47.000	36,567.549	320,879.737	357,494.286
2018	7	0.000	358.008	-2,690.095	0.000	0.000	58,559.433	325,987.754	384,547.186
2018	8	0.000	358.008	-2,690.095	0.000	0.000	49,121.331	323,968.860	373,090.191
2018	9	0.000	358.008	-2,690.095	0.000	0.000	50,671.583	338,283.352	388,954.935
2018	10	0.000	358.008	-2,690.095	0.000	979.363	25,241.498	318,471.607	344,692.468
2018	11	0.000	358.008	-2,690.095	0.000	7,623.027	3,563.182	304,951.727	316,137.936
2018	12	0.000	358.008	-2,690.095	0.000	15,137.187	0.000	329,648.607	344,785.794
2019	1	0.000	358.008	-2,690.095	0.000	15,415.799	0.000	330,905.500	346,321.298
2019	2	0.000	358.008	-2,690.095	0.000	21,983.507	0.000	304,557.105	326,540.612
2019	3	0.000	358.008	-2,690.095	0.000	17,669.652	63.778	298,412.551	316,145.981
2019	4	0.000	358.008	-2,690.095	0.000	9,856.805	531.755	297,032.843	307,421.402
2019	5	0.000	358.008	-2,690.095	0.000	3,133.675	3,742.512	300,728.460	307,604.647
2019	6	0.000	358.008	-2,690.095	0.000	437.850	20,114.521	319,485.525	340,037.895
2019	7	0.000	358.008	-2,690.095	0.000	5.429	46,404.144	326,281.225	372,690.798
2019	8	0.000	358.008	-2,690.095	0.000	0.000	48,685.201	320,936.135	369,621.336
2019	9	0.000	358.008	-2,690.095	0.000	19.387	34,446.554	337,380.091	371,846.033
2019	10	0.000	358.008	-2,690.095	0.000	1,077.240	10,300.210	316,859.801	328,237.251
2019	11	0.000	358.008	-2,690.095	0.000	5,754.880	984.567	297,747.104	304,486.551
2019	12	0.000	358.008	-2,690.095	0.000	13,646.482	12.657	323,885.271	337,544.410

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2020	1	0.000	358.008	-2,690.095	0.000	20,332.578	0.000	327,016.476	347,349.054
2020	2	0.000	358.008	-2,690.095	0.000	21,839.169	0.000	300,863.211	322,702.380
2020	3	0.000	358.008	-2,690.095	0.000	17,538.098	63.117	294,535.074	312,136.289
2020	4	0.000	358.008	-2,690.095	0.000	9,774.272	525.750	292,853.739	303,153.761
2020	5	0.000	358.008	-2,690.095	0.000	3,105.666	3,698.145	296,446.803	303,250.614
2020	6	0.000	358.008	-2,690.095	0.000	433.763	19,868.132	314,946.106	335,248.001
2020	7	0.000	358.008	-2,690.095	0.000	5.377	45,821.064	321,669.464	367,495.905
2020	8	0.000	358.008	-2,690.095	0.000	0.000	48,068.581	316,485.604	364,554.185
2020	9	0.000	358.008	-2,690.095	0.000	19.205	34,022.422	332,872.484	366,914.110
2020	10	0.000	358.008	-2,690.095	0.000	1,067.355	10,175.654	312,559.335	323,802.344
2020	11	0.000	358.008	-2,690.095	0.000	5,704.322	973.045	293,577.889	300,255.256
2020	12	0.000	358.008	-2,690.095	0.000	13,530.779	12.513	319,373.533	332,916.825
2021	1	0.000	358.008	-2,690.095	0.000	20,182.621	0.000	322,641.277	342,823.898
2021	2	0.000	358.008	-2,690.095	0.000	21,695.158	0.000	297,119.084	318,814.242
2021	3	0.000	358.008	-2,690.095	0.000	17,436.381	62.574	291,016.548	308,515.503
2021	4	0.000	358.008	-2,690.095	0.000	9,725.698	521.662	289,476.999	299,724.360
2021	5	0.000	358.008	-2,690.095	0.000	3,092.758	3,672.389	293,298.386	300,063.533
2021	6	0.000	358.008	-2,690.095	0.000	432.299	19,745.240	311,879.702	332,057.241
2021	7	0.000	358.008	-2,690.095	0.000	5.362	45,571.046	318,792.707	364,369.116
2021	8	0.000	358.008	-2,690.095	0.000	0.000	47,838.825	313,887.990	361,726.814
2021	9	0.000	358.008	-2,690.095	0.000	19.179	33,880.738	330,341.544	364,241.460
2021	10	0.000	358.008	-2,690.095	0.000	1,066.511	10,138.932	310,247.477	321,452.920
2021	11	0.000	358.008	-2,690.095	0.000	5,702.638	970.015	291,402.779	298,075.433
2021	12	0.000	358.008	-2,690.095	0.000	13,534.998	12.482	317,135.386	330,682.866
2022	1	0.000	358.008	-2,690.095	0.000	20,257.347	0.000	320,949.776	341,207.122
2022	2	0.000	358.008	-2,690.095	0.000	21,787.326	0.000	295,727.305	317,514.630
2022	3	0.000	358.008	-2,690.095	0.000	17,518.619	62.531	289,747.266	307,328.416
2022	4	0.000	358.008	-2,690.095	0.000	9,775.781	521.524	288,288.856	298,586.161
2022	5	0.000	358.008	-2,690.095	0.000	3,109.853	3,672.792	292,210.535	298,993.179
2022	6	0.000	358.008	-2,690.095	0.000	434.824	19,753.562	310,829.144	331,017.530
2022	7	0.000	358.008	-2,690.095	0.000	5.395	45,601.092	317,802.759	363,409.246
2022	8	0.000	358.008	-2,690.095	0.000	0.000	47,879.110	312,980.988	360,860.098
2022	9	0.000	358.008	-2,690.095	0.000	19.302	33,914.939	329,445.058	363,379.299

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2022	10	0.000	358.008	-2,690.095	0.000	1,073.512	10,150.509	309,412.360	320,636.381
2022	11	0.000	358.008	-2,690.095	0.000	5,740.809	971.247	290,604.266	297,316.321
2022	12	0.000	358.008	-2,690.095	0.000	13,623.756	12.496	316,219.529	329,855.781
2023	1	0.000	358.008	-2,690.095	0.000	19,869.533	0.000	320,277.560	340,147.093
2023	2	0.000	358.008	-2,690.095	0.000	21,367.113	0.000	295,087.410	316,454.523
2023	3	0.000	358.008	-2,690.095	0.000	17,178.347	62.381	289,079.572	306,320.300
2023	4	0.000	358.008	-2,690.095	0.000	9,584.873	520.220	287,582.822	297,687.915
2023	5	0.000	358.008	-2,690.095	0.000	3,048.906	3,663.352	291,493.385	298,205.643
2023	6	0.000	358.008	-2,690.095	0.000	426.293	19,702.380	310,080.047	330,208.719
2023	7	0.000	358.008	-2,690.095	0.000	5.289	45,484.967	317,065.633	362,555.889
2023	8	0.000	358.008	-2,690.095	0.000	0.000	47,762.003	312,297.041	360,059.044
2023	9	0.000	358.008	-2,690.095	0.000	18.929	33,837.522	328,778.079	362,634.530
2023	10	0.000	358.008	-2,690.095	0.000	1,052.993	10,129.414	308,816.258	319,998.665
2023	11	0.000	358.008	-2,690.095	0.000	5,632.468	969.467	290,070.967	296,672.902
2023	12	0.000	358.008	-2,690.095	0.000	13,368.869	12.475	315,674.841	329,056.186
2024	1	0.000	358.008	-2,690.095	0.000	19,519.791	0.000	319,965.788	339,485.579
2024	2	0.000	358.008	-2,690.095	0.000	20,994.619	0.000	294,847.783	315,842.401
2024	3	0.000	358.008	-2,690.095	0.000	16,881.768	62.359	288,882.444	305,826.572
2024	4	0.000	358.008	-2,690.095	0.000	9,420.831	520.114	287,418.827	297,359.772
2024	5	0.000	358.008	-2,690.095	0.000	2,997.137	3,663.108	291,363.631	298,023.876
2024	6	0.000	358.008	-2,690.095	0.000	419.101	19,703.211	309,972.416	330,094.727
2024	7	0.000	358.008	-2,690.095	0.000	5.200	45,489.882	316,974.444	362,469.526
2024	8	0.000	358.008	-2,690.095	0.000	0.000	47,768.742	312,217.316	359,986.058
2024	9	0.000	358.008	-2,690.095	0.000	18.612	33,842.333	328,695.886	362,556.830
2024	10	0.000	358.008	-2,690.095	0.000	1,035.306	10,130.620	308,731.258	319,897.184
2024	11	0.000	358.008	-2,690.095	0.000	5,537.625	969.542	289,976.617	296,483.784
2024	12	0.000	358.008	-2,690.095	0.000	13,141.985	12.474	315,535.645	328,690.104
2025	1	0.000	358.008	-2,690.095	0.000	19,190.579	0.000	319,905.099	339,095.679
2025	2	0.000	358.008	-2,690.095	0.000	20,637.069	0.000	294,753.128	315,390.198
2025	3	0.000	358.008	-2,690.095	0.000	16,591.398	62.361	288,747.706	305,401.465
2025	4	0.000	358.008	-2,690.095	0.000	9,257.220	520.046	287,240.730	297,017.996
2025	5	0.000	358.008	-2,690.095	0.000	2,944.604	3,662.032	291,147.819	297,754.455
2025	6	0.000	358.008	-2,690.095	0.000	411.692	19,694.409	309,710.631	329,816.732

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2025	7	0.000	358.008	-2,690.095	0.000	5.108	45,463.328	316,679.016	362,147.452
2025	8	0.000	358.008	-2,690.095	0.000	0.000	47,734.948	311,904.110	359,639.058
2025	9	0.000	358.008	-2,690.095	0.000	18.276	33,814.809	328,345.911	362,178.996
2025	10	0.000	358.008	-2,690.095	0.000	1,016.531	10,121.394	308,369.629	319,507.554
2025	11	0.000	358.008	-2,690.095	0.000	5,436.710	968.571	289,596.120	296,001.400
2025	12	0.000	358.008	-2,690.095	0.000	12,901.649	12.461	315,099.118	328,013.228
2026	1	0.000	358.008	-2,690.095	0.000	18,842.384	0.000	318,613.116	337,455.500
2026	2	0.000	358.008	-2,690.095	0.000	20,261.568	0.000	293,577.779	313,839.346
2026	3	0.000	358.008	-2,690.095	0.000	16,288.859	62.318	287,572.577	303,923.754
2026	4	0.000	358.008	-2,690.095	0.000	9,088.068	519.666	286,034.630	295,642.365
2026	5	0.000	358.008	-2,690.095	0.000	2,890.690	3,659.218	289,942.739	296,492.648
2026	6	0.000	358.008	-2,690.095	0.000	404.138	19,678.513	308,451.065	328,533.716
2026	7	0.000	358.008	-2,690.095	0.000	5.014	45,424.921	315,411.732	360,841.667
2026	8	0.000	358.008	-2,690.095	0.000	0.000	47,692.898	310,678.399	358,371.296
2026	9	0.000	358.008	-2,690.095	0.000	17.939	33,783.555	327,067.732	360,869.225
2026	10	0.000	358.008	-2,690.095	0.000	997.722	10,111.620	307,123.873	318,233.216
2026	11	0.000	358.008	-2,690.095	0.000	5,335.917	967.600	288,350.930	294,654.446
2026	12	0.000	358.008	-2,690.095	0.000	12,662.534	12.449	313,727.651	326,402.634
2027	1	0.000	358.008	-2,690.095	0.000	18,500.784	0.000	317,406.987	335,907.771
2027	2	0.000	358.008	-2,690.095	0.000	19,894.790	0.000	292,498.740	312,393.530
2027	3	0.000	358.008	-2,690.095	0.000	15,994.452	62.291	286,509.101	302,565.845
2027	4	0.000	358.008	-2,690.095	0.000	8,924.160	519.459	284,960.864	294,404.482
2027	5	0.000	358.008	-2,690.095	0.000	2,838.689	3,657.929	288,889.010	295,385.627
2027	6	0.000	358.008	-2,690.095	0.000	396.890	19,672.668	307,371.713	327,441.271
2027	7	0.000	358.008	-2,690.095	0.000	4.924	45,414.357	314,349.569	359,768.850
2027	8	0.000	358.008	-2,690.095	0.000	0.000	47,685.217	309,675.122	357,360.339
2027	9	0.000	358.008	-2,690.095	0.000	17.621	33,780.793	326,049.543	359,847.956
2027	10	0.000	358.008	-2,690.095	0.000	980.123	10,111.657	306,159.470	317,251.250
2027	11	0.000	358.008	-2,690.095	0.000	5,242.246	967.687	287,413.848	293,623.781
2027	12	0.000	358.008	-2,690.095	0.000	12,441.272	12.451	312,715.680	325,169.403
2028	1	0.000	358.008	-2,690.095	0.000	18,173.729	0.000	316,569.972	334,743.702
2028	2	0.000	358.008	-2,690.095	0.000	19,544.772	0.000	291,765.595	311,310.367
2028	3	0.000	358.008	-2,690.095	0.000	15,714.352	62.346	285,801.246	301,577.944

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2028	4	0.000	358.008	-2,690.095	0.000	8,768.437	519.951	284,255.102	293,543.490
2028	5	0.000	358.008	-2,690.095	0.000	2,789.313	3,661.607	288,202.432	294,653.351
2028	6	0.000	358.008	-2,690.095	0.000	390.005	19,693.359	306,670.835	326,754.198
2028	7	0.000	358.008	-2,690.095	0.000	4.839	45,463.539	313,657.164	359,125.542
2028	8	0.000	358.008	-2,690.095	0.000	0.000	47,737.673	309,014.086	356,751.759
2028	9	0.000	358.008	-2,690.095	0.000	17.316	33,818.157	325,367.368	359,202.841
2028	10	0.000	358.008	-2,690.095	0.000	963.166	10,122.782	305,498.427	316,584.375
2028	11	0.000	358.008	-2,690.095	0.000	5,151.460	968.734	286,753.588	292,873.783
2028	12	0.000	358.008	-2,690.095	0.000	12,225.655	12.464	311,984.290	324,222.409
2029	1	0.000	358.008	-2,690.095	0.000	17,870.284	0.000	315,981.082	333,851.366
2029	2	0.000	358.008	-2,690.095	0.000	19,218.013	0.000	291,230.352	310,448.364
2029	3	0.000	358.008	-2,690.095	0.000	15,451.179	62.436	285,263.513	300,777.128
2029	4	0.000	358.008	-2,690.095	0.000	8,621.434	520.692	283,703.107	292,845.232
2029	5	0.000	358.008	-2,690.095	0.000	2,742.492	3,666.742	287,649.967	294,059.200
2029	6	0.000	358.008	-2,690.095	0.000	383.448	19,720.478	306,091.601	326,195.527
2029	7	0.000	358.008	-2,690.095	0.000	4.758	45,525.386	313,074.541	358,604.685
2029	8	0.000	358.008	-2,690.095	0.000	0.000	47,801.683	308,449.913	356,251.596
2029	9	0.000	358.008	-2,690.095	0.000	17.024	33,863.109	324,781.092	358,661.225
2029	10	0.000	358.008	-2,690.095	0.000	946.917	10,136.110	304,928.527	316,011.554
2029	11	0.000	358.008	-2,690.095	0.000	5,064.524	970.004	286,186.466	292,220.994
2029	12	0.000	358.008	-2,690.095	0.000	12,018.977	12.480	311,351.307	323,382.764
2030	1	0.000	358.008	-2,690.095	0.000	17,565.675	0.000	314,433.270	331,998.945
2030	2	0.000	358.008	-2,690.095	0.000	18,889.910	0.000	289,830.661	308,720.571
2030	3	0.000	358.008	-2,690.095	0.000	15,187.045	62.499	283,870.017	299,119.562
2030	4	0.000	358.008	-2,690.095	0.000	8,473.860	521.211	282,278.386	291,273.457
2030	5	0.000	358.008	-2,690.095	0.000	2,695.484	3,670.310	286,231.369	292,597.164
2030	6	0.000	358.008	-2,690.095	0.000	376.871	19,739.403	304,616.805	324,733.079
2030	7	0.000	358.008	-2,690.095	0.000	4.676	45,568.176	311,596.722	357,169.574
2030	8	0.000	358.008	-2,690.095	0.000	0.000	47,846.038	307,027.706	354,873.745
2030	9	0.000	358.008	-2,690.095	0.000	16.731	33,894.060	323,306.922	357,217.713
2030	10	0.000	358.008	-2,690.095	0.000	930.622	10,145.269	303,500.614	314,576.505
2030	11	0.000	358.008	-2,690.095	0.000	4,977.316	970.870	284,766.555	290,714.742
2030	12	0.000	358.008	-2,690.095	0.000	11,812.086	12.491	309,787.120	321,611.698

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2031	1	0.000	358.008	-2,690.095	0.000	17,255.163	0.000	313,107.691	330,362.854
2031	2	0.000	358.008	-2,690.095	0.000	18,556.242	0.000	288,640.647	307,196.888
2031	3	0.000	358.008	-2,690.095	0.000	14,918.978	62.585	282,692.724	297,674.287
2031	4	0.000	358.008	-2,690.095	0.000	8,324.398	521.929	281,082.362	289,928.689
2031	5	0.000	358.008	-2,690.095	0.000	2,647.977	3,675.420	285,048.334	291,371.731
2031	6	0.000	358.008	-2,690.095	0.000	370.232	19,767.060	303,391.809	323,529.102
2031	7	0.000	358.008	-2,690.095	0.000	4.594	45,632.459	310,375.530	356,012.583
2031	8	0.000	358.008	-2,690.095	0.000	0.000	47,914.024	305,857.153	353,771.177
2031	9	0.000	358.008	-2,690.095	0.000	16.437	33,942.404	322,097.668	356,056.509
2031	10	0.000	358.008	-2,690.095	0.000	914.255	10,159.779	302,332.172	313,406.206
2031	11	0.000	358.008	-2,690.095	0.000	4,889.814	972.266	283,608.428	289,470.508
2031	12	0.000	358.008	-2,690.095	0.000	11,604.251	12.509	308,506.245	320,123.005
2032	1	0.000	358.008	-2,690.095	0.000	16,956.049	0.000	312,072.319	329,028.368
2032	2	0.000	358.008	-2,690.095	0.000	18,234.459	0.000	287,707.226	305,941.686
2032	3	0.000	358.008	-2,690.095	0.000	14,660.238	62.696	281,766.406	296,489.340
2032	4	0.000	358.008	-2,690.095	0.000	8,179.951	522.856	280,136.687	288,839.494
2032	5	0.000	358.008	-2,690.095	0.000	2,602.017	3,681.929	284,109.406	290,393.351
2032	6	0.000	358.008	-2,690.095	0.000	363.804	19,801.938	302,416.319	322,582.060
2032	7	0.000	358.008	-2,690.095	0.000	4.514	45,712.863	309,400.630	355,118.007
2032	8	0.000	358.008	-2,690.095	0.000	0.000	47,998.288	304,920.013	352,918.302
2032	9	0.000	358.008	-2,690.095	0.000	16.151	34,002.228	321,129.421	355,147.801
2032	10	0.000	358.008	-2,690.095	0.000	898.382	10,177.716	301,396.572	312,472.669
2032	11	0.000	358.008	-2,690.095	0.000	4,804.931	973.985	282,680.319	288,459.234
2032	12	0.000	358.008	-2,690.095	0.000	11,403.044	12.531	307,488.051	318,903.627
2033	1	0.000	358.008	-2,690.095	0.000	16,675.155	0.000	311,185.152	327,860.308
2033	2	0.000	358.008	-2,690.095	0.000	17,932.752	0.000	286,913.364	304,846.116
2033	3	0.000	358.008	-2,690.095	0.000	14,417.877	62.837	280,982.304	295,463.018
2033	4	0.000	358.008	-2,690.095	0.000	8,044.917	524.043	279,343.712	287,912.671
2033	5	0.000	358.008	-2,690.095	0.000	2,559.116	3,690.364	283,327.668	289,577.148
2033	6	0.000	358.008	-2,690.095	0.000	357.813	19,847.727	301,610.521	321,816.061
2033	7	0.000	358.008	-2,690.095	0.000	4.440	45,819.322	308,599.749	354,423.510
2033	8	0.000	358.008	-2,690.095	0.000	0.000	48,110.707	304,153.831	352,264.537
2033	9	0.000	358.008	-2,690.095	0.000	15.886	34,082.133	320,338.917	354,436.937

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2033	10	0.000	358.008	-2,690.095	0.000	883.628	10,201.707	300,633.812	311,719.146
2033	11	0.000	358.008	-2,690.095	0.000	4,726.037	976.284	281,924.037	287,626.359
2033	12	0.000	358.008	-2,690.095	0.000	11,215.580	12.561	306,648.861	317,877.002
2034	1	0.000	358.008	-2,690.095	0.000	16,400.438	0.000	310,495.425	326,895.863
2034	2	0.000	358.008	-2,690.095	0.000	17,636.817	0.000	286,286.001	303,922.818
2034	3	0.000	358.008	-2,690.095	0.000	14,179.607	63.006	280,354.593	294,597.205
2034	4	0.000	358.008	-2,690.095	0.000	7,911.737	525.433	278,697.607	287,134.777
2034	5	0.000	358.008	-2,690.095	0.000	2,516.680	3,700.049	282,680.394	288,897.123
2034	6	0.000	358.008	-2,690.095	0.000	351.870	19,899.264	300,932.486	321,183.620
2034	7	0.000	358.008	-2,690.095	0.000	4.366	45,937.218	307,916.917	353,858.500
2034	8	0.000	358.008	-2,690.095	0.000	0.000	48,233.190	303,491.760	351,724.950
2034	9	0.000	358.008	-2,690.095	0.000	15.621	34,167.997	319,647.933	353,831.551
2034	10	0.000	358.008	-2,690.095	0.000	868.862	10,227.151	299,959.866	311,055.880
2034	11	0.000	358.008	-2,690.095	0.000	4,646.929	978.690	281,248.325	286,873.945
2034	12	0.000	358.008	-2,690.095	0.000	11,027.948	12.592	305,906.180	316,946.720
2035	1	0.000	358.008	-2,690.095	0.000	16,135.027	0.000	309,908.641	326,043.668
2035	2	0.000	358.008	-2,690.095	0.000	17,351.732	0.000	285,762.256	303,113.988
2035	3	0.000	358.008	-2,690.095	0.000	13,950.627	63.187	279,838.752	293,852.566
2035	4	0.000	358.008	-2,690.095	0.000	7,784.089	526.954	278,175.635	286,486.678
2035	5	0.000	358.008	-2,690.095	0.000	2,476.106	3,710.807	282,165.492	288,352.406
2035	6	0.000	358.008	-2,690.095	0.000	346.199	19,957.222	300,399.563	320,702.984
2035	7	0.000	358.008	-2,690.095	0.000	4.295	46,071.080	307,384.984	353,460.359
2035	8	0.000	358.008	-2,690.095	0.000	0.000	48,373.821	302,981.226	351,355.047
2035	9	0.000	358.008	-2,690.095	0.000	15.369	34,267.462	319,118.883	353,401.715
2035	10	0.000	358.008	-2,690.095	0.000	854.849	10,256.824	299,446.072	310,557.744
2035	11	0.000	358.008	-2,690.095	0.000	4,571.945	981.522	280,736.464	286,289.931
2035	12	0.000	358.008	-2,690.095	0.000	10,849.843	12.628	305,338.202	316,200.673
2036	1	0.000	358.008	-2,690.095	0.000	15,875.082	0.000	309,442.863	325,317.945
2036	2	0.000	358.008	-2,690.095	0.000	17,072.119	0.000	285,342.106	302,414.225
2036	3	0.000	358.008	-2,690.095	0.000	13,725.721	63.388	279,420.360	293,209.468
2036	4	0.000	358.008	-2,690.095	0.000	7,658.499	528.621	277,746.512	285,933.632
2036	5	0.000	358.008	-2,690.095	0.000	2,436.120	3,722.492	281,736.470	287,895.081
2036	6	0.000	358.008	-2,690.095	0.000	340.604	20,019.816	299,951.615	320,312.035

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2036	7	0.000	358.008	-2,690.095	0.000	4,226	46,214.944	306,934.324	353,153.493
2036	8	0.000	358.008	-2,690.095	0.000	0.000	48,524.409	302,546.187	351,070.596
2036	9	0.000	358.008	-2,690.095	0.000	15.120	34,373.853	318,667.031	353,056.004
2036	10	0.000	358.008	-2,690.095	0.000	841.002	10,288.607	299,007.801	310,137.411
2036	11	0.000	358.008	-2,690.095	0.000	4,497.865	984.558	280,300.216	285,782.639
2036	12	0.000	358.008	-2,690.095	0.000	10,673.855	12.667	304,852.816	315,539.338
2037	1	0.000	358.008	-2,690.095	0.000	15,622.725	0.000	309,056.685	324,679.410
2037	2	0.000	358.008	-2,690.095	0.000	16,800.367	0.000	284,989.511	301,789.878
2037	3	0.000	358.008	-2,690.095	0.000	13,506.975	63.602	279,066.246	292,636.823
2037	4	0.000	358.008	-2,690.095	0.000	7,536.346	530.395	277,382.777	285,449.518
2037	5	0.000	358.008	-2,690.095	0.000	2,397.243	3,734.947	281,373.773	287,505.964
2037	6	0.000	358.008	-2,690.095	0.000	335.166	20,086.653	299,573.608	319,995.427
2037	7	0.000	358.008	-2,690.095	0.000	4.158	46,368.932	306,555.236	352,928.327
2037	8	0.000	358.008	-2,690.095	0.000	0.000	48,685.734	302,180.410	350,866.144
2037	9	0.000	358.008	-2,690.095	0.000	14.879	34,487.991	318,287.796	352,790.665
2037	10	0.000	358.008	-2,690.095	0.000	827.557	10,322.727	298,640.141	309,790.425
2037	11	0.000	358.008	-2,690.095	0.000	4,425.947	987.822	279,934.915	285,348.684
2037	12	0.000	358.008	-2,690.095	0.000	10,503.156	12.709	304,449.250	314,965.115
2038	1	0.000	358.008	-2,690.095	0.000	15,369.016	0.000	308,791.353	324,160.369
2038	2	0.000	358.008	-2,690.095	0.000	16,527.544	0.000	284,750.826	301,278.370
2038	3	0.000	358.008	-2,690.095	0.000	13,287.678	63.830	278,830.269	292,181.776
2038	4	0.000	358.008	-2,690.095	0.000	7,414.003	532.299	277,142.905	285,089.207
2038	5	0.000	358.008	-2,690.095	0.000	2,358.323	3,748.352	281,135.485	287,242.160
2038	6	0.000	358.008	-2,690.095	0.000	329.725	20,158.784	299,326.912	319,815.421
2038	7	0.000	358.008	-2,690.095	0.000	4.091	46,535.429	306,308.778	352,848.298
2038	8	0.000	358.008	-2,690.095	0.000	0.000	48,860.476	301,943.359	350,803.835
2038	9	0.000	358.008	-2,690.095	0.000	14.637	34,611.639	318,041.726	352,668.002
2038	10	0.000	358.008	-2,690.095	0.000	814.116	10,359.712	298,401.648	309,575.476
2038	11	0.000	358.008	-2,690.095	0.000	4,354.033	991.354	279,696.635	285,042.022
2038	12	0.000	358.008	-2,690.095	0.000	10,332.566	12.754	304,188.172	314,533.493
2039	1	0.000	358.008	-2,690.095	0.000	15,123.998	0.000	308,635.216	323,759.214
2039	2	0.000	358.008	-2,690.095	0.000	16,264.218	0.000	284,612.558	300,876.776
2039	3	0.000	358.008	-2,690.095	0.000	13,076.083	64.075	278,695.077	291,835.235

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2039	4	0.000	358.008	-2,690.095	0.000	7,296.033	534.348	277,008.120	284,838.501
2039	5	0.000	358.008	-2,690.095	0.000	2,320.830	3,762.827	281,004.948	287,088.605
2039	6	0.000	358.008	-2,690.095	0.000	324.488	20,236.928	299,194.979	319,756.395
2039	7	0.000	358.008	-2,690.095	0.000	4.026	46,716.489	306,180.393	352,900.908
2039	8	0.000	358.008	-2,690.095	0.000	0.000	49,051.389	301,823.799	350,875.188
2039	9	0.000	358.008	-2,690.095	0.000	14.405	34,747.463	317,922.053	352,683.921
2039	10	0.000	358.008	-2,690.095	0.000	801.234	10,400.516	298,289.216	309,490.967
2039	11	0.000	358.008	-2,690.095	0.000	4,285.218	995.277	279,589.086	284,869.580
2039	12	0.000	358.008	-2,690.095	0.000	10,169.794	12.806	304,082.679	314,265.278
2040	1	0.000	358.008	-2,690.095	0.000	14,881.681	0.000	307,905.955	322,787.636
2040	2	0.000	358.008	-2,690.095	0.000	16,004.788	0.000	283,972.567	299,977.355
2040	3	0.000	358.008	-2,690.095	0.000	12,868.400	64.313	278,075.983	291,008.696
2040	4	0.000	358.008	-2,690.095	0.000	7,180.578	536.367	276,391.168	284,108.113
2040	5	0.000	358.008	-2,690.095	0.000	2,284.233	3,777.260	280,405.977	286,467.470
2040	6	0.000	358.008	-2,690.095	0.000	319.386	20,315.528	298,585.102	319,220.016
2040	7	0.000	358.008	-2,690.095	0.000	3.963	46,900.091	305,582.133	352,486.187
2040	8	0.000	358.008	-2,690.095	0.000	0.000	49,246.172	301,258.430	350,504.602
2040	9	0.000	358.008	-2,690.095	0.000	14.181	34,886.961	317,347.579	352,248.720
2040	10	0.000	358.008	-2,690.095	0.000	788.772	10,442.688	297,742.797	308,974.257
2040	11	0.000	358.008	-2,690.095	0.000	4,218.728	999.351	279,055.366	284,273.445
2040	12	0.000	358.008	-2,690.095	0.000	10,011.523	12.857	303,482.313	313,506.693
2041	1	0.000	358.008	-2,690.095	0.000	14,662.101	0.000	307,555.196	322,217.297
2041	2	0.000	358.008	-2,690.095	0.000	15,767.531	0.000	283,640.887	299,408.418
2041	3	0.000	358.008	-2,690.095	0.000	12,676.754	64.576	277,731.273	290,472.603
2041	4	0.000	358.008	-2,690.095	0.000	7,073.185	538.531	276,025.289	283,637.004
2041	5	0.000	358.008	-2,690.095	0.000	2,249.926	3,792.256	280,028.527	286,070.709
2041	6	0.000	358.008	-2,690.095	0.000	314.571	20,394.978	298,179.599	318,889.148
2041	7	0.000	358.008	-2,690.095	0.000	3.903	47,080.786	305,163.459	352,248.148
2041	8	0.000	358.008	-2,690.095	0.000	0.000	49,433.187	300,843.828	350,277.015
2041	9	0.000	358.008	-2,690.095	0.000	13.964	35,017.307	316,904.478	351,935.749
2041	10	0.000	358.008	-2,690.095	0.000	776.703	10,481.141	297,302.141	308,559.985
2041	11	0.000	358.008	-2,690.095	0.000	4,153.945	1,002.975	278,605.424	283,762.343
2041	12	0.000	358.008	-2,690.095	0.000	9,857.476	12.904	302,978.449	312,848.828

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2042	1	0.000	358.008	-2,690.095	0.000	14,441.797	0.000	307,219.530	321,661.327
2042	2	0.000	358.008	-2,690.095	0.000	15,530.236	0.000	283,333.174	298,863.411
2042	3	0.000	358.008	-2,690.095	0.000	12,485.643	64.821	277,420.089	289,970.553
2042	4	0.000	358.008	-2,690.095	0.000	6,966.362	540.559	275,702.120	283,209.042
2042	5	0.000	358.008	-2,690.095	0.000	2,215.892	3,806.445	279,702.405	285,724.743
2042	6	0.000	358.008	-2,690.095	0.000	309.803	20,470.685	297,834.348	318,614.837
2042	7	0.000	358.008	-2,690.095	0.000	3.844	47,254.071	304,811.253	352,069.168
2042	8	0.000	358.008	-2,690.095	0.000	0.000	49,613.520	300,498.205	350,111.725
2042	9	0.000	358.008	-2,690.095	0.000	13.751	35,143.889	316,539.326	351,696.966
2042	10	0.000	358.008	-2,690.095	0.000	764.829	10,518.644	296,940.780	308,224.253
2042	11	0.000	358.008	-2,690.095	0.000	4,090.286	1,006.525	278,238.161	283,334.972
2042	12	0.000	358.008	-2,690.095	0.000	9,705.938	12.949	302,561.444	312,280.331
2043	1	0.000	358.008	-2,690.095	0.000	14,218.926	0.000	307,021.416	321,240.342
2043	2	0.000	358.008	-2,690.095	0.000	15,289.814	0.000	283,143.656	298,433.470
2043	3	0.000	358.008	-2,690.095	0.000	12,291.784	65.055	277,221.705	289,578.544
2043	4	0.000	358.008	-2,690.095	0.000	6,857.889	542.483	275,489.703	282,890.075
2043	5	0.000	358.008	-2,690.095	0.000	2,181.278	3,819.800	279,480.182	285,481.260
2043	6	0.000	358.008	-2,690.095	0.000	304.950	20,541.601	297,593.483	318,440.034
2043	7	0.000	358.008	-2,690.095	0.000	3.783	47,415.776	304,560.785	351,980.345
2043	8	0.000	358.008	-2,690.095	0.000	0.000	49,781.079	300,247.574	350,028.653
2043	9	0.000	358.008	-2,690.095	0.000	13.534	35,261.070	316,270.134	351,544.738
2043	10	0.000	358.008	-2,690.095	0.000	752.719	10,553.270	296,670.924	307,976.913
2043	11	0.000	358.008	-2,690.095	0.000	4,025.347	1,009.794	277,960.542	282,995.683
2043	12	0.000	358.008	-2,690.095	0.000	9,551.976	12.991	302,258.812	311,823.779
2044	1	0.000	358.008	-2,690.095	0.000	14,000.105	0.000	306,870.488	320,870.593
2044	2	0.000	358.008	-2,690.095	0.000	15,055.047	0.000	283,015.869	298,070.916
2044	3	0.000	358.008	-2,690.095	0.000	12,103.484	65.287	277,103.023	289,271.794
2044	4	0.000	358.008	-2,690.095	0.000	6,752.994	544.426	275,374.333	282,671.753
2044	5	0.000	358.008	-2,690.095	0.000	2,147.976	3,833.595	279,372.357	285,353.927
2044	6	0.000	358.008	-2,690.095	0.000	300.302	20,616.271	297,487.197	318,403.770
2044	7	0.000	358.008	-2,690.095	0.000	3.726	47,589.086	304,459.336	352,052.148
2044	8	0.000	358.008	-2,690.095	0.000	0.000	49,964.133	300,155.112	350,119.245
2044	9	0.000	358.008	-2,690.095	0.000	13.329	35,391.428	316,179.124	351,583.881

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2044	10	0.000	358.008	-2,690.095	0.000	741.305	10,592.490	296,587.311	307,921.106
2044	11	0.000	358.008	-2,690.095	0.000	3,964.378	1,013.565	277,881.601	282,859.544
2044	12	0.000	358.008	-2,690.095	0.000	9,407.102	13.039	302,166.579	311,586.720
2045	1	0.000	358.008	-2,690.095	0.000	13,785.735	0.000	306,943.254	320,728.988
2045	2	0.000	358.008	-2,690.095	0.000	14,824.018	0.000	283,073.631	297,897.649
2045	3	0.000	358.008	-2,690.095	0.000	11,917.311	65.535	277,152.052	289,134.897
2045	4	0.000	358.008	-2,690.095	0.000	6,648.971	546.483	275,419.118	282,614.572
2045	5	0.000	358.008	-2,690.095	0.000	2,114.831	3,847.969	279,410.575	285,373.376
2045	6	0.000	358.008	-2,690.095	0.000	295.661	20,693.083	297,521.247	318,509.991
2045	7	0.000	358.008	-2,690.095	0.000	3.668	47,765.348	304,488.198	352,257.214
2045	8	0.000	358.008	-2,690.095	0.000	0.000	50,148.205	300,178.386	350,326.592
2045	9	0.000	358.008	-2,690.095	0.000	13.122	35,521.009	316,197.900	351,732.030
2045	10	0.000	358.008	-2,690.095	0.000	729.786	10,631.043	296,600.589	307,961.419
2045	11	0.000	358.008	-2,690.095	0.000	3,902.714	1,017.238	277,891.126	282,811.078
2045	12	0.000	358.008	-2,690.095	0.000	9,260.667	13.086	302,174.115	311,447.868
2046	1	0.000	358.008	-2,690.095	0.000	13,578.502	0.000	307,105.558	320,684.061
2046	2	0.000	358.008	-2,690.095	0.000	14,601.043	0.000	283,217.628	297,818.671
2046	3	0.000	358.008	-2,690.095	0.000	11,738.006	65.784	277,293.879	289,097.669
2046	4	0.000	358.008	-2,690.095	0.000	6,548.862	548.554	275,561.087	282,658.502
2046	5	0.000	358.008	-2,690.095	0.000	2,082.972	3,862.519	279,549.449	285,494.939
2046	6	0.000	358.008	-2,690.095	0.000	291.203	20,771.057	297,662.252	318,724.512
2046	7	0.000	358.008	-2,690.095	0.000	3.613	47,944.786	304,626.324	352,574.723
2046	8	0.000	358.008	-2,690.095	0.000	0.000	50,335.856	300,307.721	350,643.578
2046	9	0.000	358.008	-2,690.095	0.000	12.924	35,653.431	316,328.394	351,994.749
2046	10	0.000	358.008	-2,690.095	0.000	718.741	10,670.482	296,722.654	308,111.877
2046	11	0.000	358.008	-2,690.095	0.000	3,843.564	1,020.990	278,007.427	282,871.981
2046	12	0.000	358.008	-2,690.095	0.000	9,120.151	13.134	302,297.937	311,431.221
2047	1	0.000	358.008	-2,690.095	0.000	13,376.332	0.000	307,427.994	320,804.326
2047	2	0.000	358.008	-2,690.095	0.000	14,383.350	0.000	283,503.118	297,886.468
2047	3	0.000	358.008	-2,690.095	0.000	11,562.727	66.034	277,571.728	289,200.490
2047	4	0.000	358.008	-2,690.095	0.000	6,450.933	550.631	275,839.186	282,840.751
2047	5	0.000	358.008	-2,690.095	0.000	2,051.776	3,877.057	279,819.920	285,748.753
2047	6	0.000	358.008	-2,690.095	0.000	286.836	20,848.795	297,937.776	319,073.407

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2047	7	0.000	358.008	-2,690.095	0.000	3.558	48,123.197	304,896.451	353,023.206
2047	8	0.000	358.008	-2,690.095	0.000	0.000	50,522.121	300,562.466	351,084.587
2047	9	0.000	358.008	-2,690.095	0.000	12.729	35,784.575	316,586.651	352,383.955
2047	10	0.000	358.008	-2,690.095	0.000	707.902	10,709.512	296,967.723	308,385.138
2047	11	0.000	358.008	-2,690.095	0.000	3,785.519	1,024.702	278,245.808	283,056.030
2047	12	0.000	358.008	-2,690.095	0.000	8,982.380	13.182	302,559.667	311,555.229
2048	1	0.000	358.008	-2,690.095	0.000	13,177.531	0.000	307,838.125	321,015.656
2048	2	0.000	358.008	-2,690.095	0.000	14,169.575	0.000	283,872.116	298,041.691
2048	3	0.000	358.008	-2,690.095	0.000	11,390.874	66.279	277,937.677	289,394.830
2048	4	0.000	358.008	-2,690.095	0.000	6,355.009	552.665	276,210.200	283,117.873
2048	5	0.000	358.008	-2,690.095	0.000	2,021.256	3,891.355	280,186.701	286,099.312
2048	6	0.000	358.008	-2,690.095	0.000	282.568	20,925.587	298,317.077	319,525.231
2048	7	0.000	358.008	-2,690.095	0.000	3.505	48,300.310	305,274.572	353,578.387
2048	8	0.000	358.008	-2,690.095	0.000	0.000	50,707.824	300,924.525	351,632.349
2048	9	0.000	358.008	-2,690.095	0.000	12.539	35,915.989	316,960.251	352,888.780
2048	10	0.000	358.008	-2,690.095	0.000	697.360	10,748.827	297,328.631	308,774.818
2048	11	0.000	358.008	-2,690.095	0.000	3,729.141	1,028.462	278,603.601	283,361.204
2048	12	0.000	358.008	-2,690.095	0.000	8,848.544	13.230	302,952.454	311,814.228
2049	1	0.000	358.008	-2,690.095	0.000	12,919.883	0.000	307,085.198	320,005.082
2049	2	0.000	358.008	-2,690.095	0.000	13,892.625	0.000	283,196.007	297,088.632
2049	3	0.000	358.008	-2,690.095	0.000	11,168.856	66.183	277,279.659	288,514.698
2049	4	0.000	358.008	-2,690.095	0.000	6,231.922	551.939	275,568.691	282,352.552
2049	5	0.000	358.008	-2,690.095	0.000	1,982.545	3,887.103	279,600.625	285,470.272
2049	6	0.000	358.008	-2,690.095	0.000	277.248	20,909.689	297,787.823	318,974.760
2049	7	0.000	358.008	-2,690.095	0.000	3.441	48,286.173	304,856.131	353,145.745
2049	8	0.000	358.008	-2,690.095	0.000	0.000	50,723.930	300,660.840	351,384.770
2049	9	0.000	358.008	-2,690.095	0.000	12.325	35,953.158	316,855.492	352,820.975
2049	10	0.000	358.008	-2,690.095	0.000	686.015	10,768.641	297,410.315	308,864.971
2049	11	0.000	358.008	-2,690.095	0.000	3,671.702	1,031.266	278,882.940	283,585.908
2049	12	0.000	358.008	-2,690.095	0.000	8,720.385	13.279	303,492.179	312,225.842
2050	1	0.000	358.008	-2,690.095	0.000	12,737.737	0.000	307,778.485	320,516.222
2050	2	0.000	358.008	-2,690.095	0.000	13,696.931	0.000	283,822.742	297,519.673
2050	3	0.000	358.008	-2,690.095	0.000	11,011.663	66.440	277,904.005	288,982.108

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2050	4	0.000	358.008	-2,690.095	0.000	6,144.249	554.081	276,205.947	282,904.278
2050	5	0.000	358.008	-2,690.095	0.000	1,954.669	3,902.222	280,234.582	286,091.474
2050	6	0.000	358.008	-2,690.095	0.000	273.352	20,991.202	298,447.635	319,712.189
2050	7	0.000	358.008	-2,690.095	0.000	3.393	48,474.923	305,517.861	353,996.177
2050	8	0.000	358.008	-2,690.095	0.000	0.000	50,922.671	301,298.771	352,221.442
2050	9	0.000	358.008	-2,690.095	0.000	12.153	36,094.432	317,518.241	353,624.825
2050	10	0.000	358.008	-2,690.095	0.000	676.405	10,811.099	298,054.636	309,542.140
2050	11	0.000	358.008	-2,690.095	0.000	3,620.318	1,035.346	279,526.026	284,181.690
2050	12	0.000	358.008	-2,690.095	0.000	8,598.452	13.331	304,204.919	312,816.702
2051	1	0.000	358.008	-2,690.095	0.000	12,558.739	0.000	308,513.791	321,072.530
2051	2	0.000	358.008	-2,690.095	0.000	13,504.737	0.000	284,489.346	297,994.083
2051	3	0.000	358.008	-2,690.095	0.000	10,857.373	66.702	278,569.810	289,493.885
2051	4	0.000	358.008	-2,690.095	0.000	6,058.247	556.272	276,887.471	283,501.990
2051	5	0.000	358.008	-2,690.095	0.000	1,927.342	3,917.718	280,914.447	286,759.507
2051	6	0.000	358.008	-2,690.095	0.000	269.536	21,074.923	299,157.130	320,501.589
2051	7	0.000	358.008	-2,690.095	0.000	3.345	48,669.180	306,231.229	354,903.754
2051	8	0.000	358.008	-2,690.095	0.000	0.000	51,127.628	301,988.240	353,115.868
2051	9	0.000	358.008	-2,690.095	0.000	11.984	36,240.430	318,236.386	354,488.800
2051	10	0.000	358.008	-2,690.095	0.000	667.012	10,855.067	298,754.536	310,276.616
2051	11	0.000	358.008	-2,690.095	0.000	3,570.126	1,039.580	280,226.359	284,836.064
2051	12	0.000	358.008	-2,690.095	0.000	8,479.413	13.386	304,982.770	313,475.569
2052	1	0.000	358.008	-2,690.095	0.000	12,383.942	0.000	309,314.157	321,698.099
2052	2	0.000	358.008	-2,690.095	0.000	13,317.007	0.000	285,213.741	298,530.748
2052	3	0.000	358.008	-2,690.095	0.000	10,706.630	66.973	279,292.238	290,065.841
2052	4	0.000	358.008	-2,690.095	0.000	5,974.202	558.542	277,625.901	284,158.644
2052	5	0.000	358.008	-2,690.095	0.000	1,900.630	3,933.756	281,649.976	287,484.362
2052	6	0.000	358.008	-2,690.095	0.000	265.804	21,161.498	299,923.594	321,350.895
2052	7	0.000	358.008	-2,690.095	0.000	3.299	48,869.870	307,000.736	355,873.905
2052	8	0.000	358.008	-2,690.095	0.000	0.000	51,339.177	302,730.911	354,070.088
2052	9	0.000	358.008	-2,690.095	0.000	11.818	36,390.976	319,008.757	355,411.551
2052	10	0.000	358.008	-2,690.095	0.000	657.819	10,900.359	299,506.111	311,064.289
2052	11	0.000	358.008	-2,690.095	0.000	3,520.986	1,043.937	280,977.204	285,542.127
2052	12	0.000	358.008	-2,690.095	0.000	8,362.842	13.442	305,815.580	314,191.865

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	10-Nov	Sep11on	Jul15on	X-Missing	Heating	Cooling	Other	Total Energy
2053	1	0.000	358.008	-2,690.095	0.000	12,212.691	0.000	310,168.525	322,381.216
2053	2	0.000	358.008	-2,690.095	0.000	13,132.999	0.000	285,985.292	299,118.290
2053	3	0.000	358.008	-2,690.095	0.000	10,558.812	67.251	280,060.103	290,686.166
2053	4	0.000	358.008	-2,690.095	0.000	5,891.749	560.862	278,409.162	284,861.773
2053	5	0.000	358.008	-2,690.095	0.000	1,874.412	3,950.121	282,428.513	288,253.046
2053	6	0.000	358.008	-2,690.095	0.000	262.139	21,249.696	300,733.197	322,245.032
2053	7	0.000	358.008	-2,690.095	0.000	3.254	49,074.008	307,811.877	356,889.138
2053	8	0.000	358.008	-2,690.095	0.000	0.000	51,554.032	303,512.177	355,066.209
2053	9	0.000	358.008	-2,690.095	0.000	11.656	36,543.625	319,819.506	356,374.787
2053	10	0.000	358.008	-2,690.095	0.000	648.775	10,946.210	300,293.310	311,888.295
2053	11	0.000	358.008	-2,690.095	0.000	3,472.616	1,048.340	281,761.882	286,282.839
2053	12	0.000	358.008	-2,690.095	0.000	8,248.045	13.499	306,684.236	314,945.780
2054	1	0.000	358.008	-2,690.095	0.000	12,044.049	0.000	311,059.042	323,103.092
2054	2	0.000	358.008	-2,690.095	0.000	12,951.794	0.000	286,789.410	299,741.203
2054	3	0.000	358.008	-2,690.095	0.000	10,413.245	67.531	280,860.317	291,341.093
2054	4	0.000	358.008	-2,690.095	0.000	5,810.552	563.202	279,225.399	285,599.154
2054	5	0.000	358.008	-2,690.095	0.000	1,848.592	3,966.635	283,239.767	289,054.994
2054	6	0.000	358.008	-2,690.095	0.000	258.530	21,338.697	301,576.772	323,173.999
2054	7	0.000	358.008	-2,690.095	0.000	3.209	49,280.004	308,656.982	357,940.195
2054	8	0.000	358.008	-2,690.095	0.000	0.000	51,770.847	304,326.112	356,096.959
2054	9	0.000	358.008	-2,690.095	0.000	11.495	36,697.668	320,664.087	357,373.251
2054	10	0.000	358.008	-2,690.095	0.000	639.868	10,992.480	301,113.275	312,745.623
2054	11	0.000	358.008	-2,690.095	0.000	3,424.982	1,052.784	282,579.146	287,056.911
2054	12	0.000	358.008	-2,690.095	0.000	8,134.993	13.557	307,588.887	315,737.436

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
1998	1	342,610.349	22,180.821	0.000	320,429.528	342,610.349	0		0
1998	2	292,069.614	22,666.743	0.000	269,402.871	292,069.614	0		0
1998	3	298,441.303	18,668.603	0.000	279,772.700	298,441.303	0		0
1998	4	297,305.430	11,823.394	899.125	284,582.911	297,305.430	0		0
1998	5	298,594.582	2,695.963	4,022.921	291,875.698	298,594.582	0		0
1998	6	328,463.661	148.124	23,588.538	304,726.999	328,463.661	0		0
1998	7	361,711.873	52.682	51,903.957	309,755.234	361,711.873	0		0
1998	8	345,924.626	0.000	41,223.357	304,701.269	345,924.626	0		0
1998	9	359,449.193	0.000	35,694.009	323,755.184	359,449.193	0		0
1998	10	310,996.265	740.426	17,691.659	292,564.179	310,996.265	0		0
1998	11	289,951.156	6,576.732	1,127.920	282,246.504	289,951.156	0		0
1998	12	327,049.136	11,741.104	0.000	315,308.032	327,049.136	0		0
1999	1	333,418.536	29,323.267	0.000	304,095.269	333,418.536	0		0
1999	2	307,474.809	24,943.632	0.000	282,531.177	307,474.809	0		0
1999	3	303,750.978	23,316.499	0.000	280,434.479	303,750.978	0		0
1999	4	302,554.092	13,780.448	0.000	288,773.644	302,554.092	0		0
1999	5	333,518.570	3,301.657	2,249.512	327,967.401	333,518.570	0		0
1999	6	296,870.325	185.087	22,743.016	273,942.222	296,870.325	0		0
1999	7	375,921.650	0.000	54,318.779	321,602.871	375,921.650	0		0
1999	8	364,479.058	0.000	68,403.185	296,075.873	364,479.058	0		0
1999	9	350,077.663	8.521	26,667.528	323,401.614	350,077.663	0		0
1999	10	310,929.625	1,578.238	8,402.512	300,948.876	310,929.625	0		0
1999	11	292,319.130	6,211.962	215.104	285,892.064	292,319.130	0		0
1999	12	328,041.318	13,655.309	0.000	314,386.009	328,041.318	0		0
2000	1	343,289.804	24,725.047	0.000	318,564.757	343,289.804	0		0
2000	2	328,201.170	32,694.169	0.000	295,507.001	328,201.170	0		0
2000	3	303,835.911	15,699.421	0.000	288,136.490	303,835.911	0		0
2000	4	296,691.207	9,631.101	0.000	287,060.106	296,691.207	0		0
2000	5	314,078.407	3,411.141	7,096.642	303,570.625	314,078.407	0		0
2000	6	336,600.916	254.279	16,683.868	319,662.768	336,600.916	0		0
2000	7	357,728.426	9.413	36,288.699	321,430.314	357,728.426	0		0
2000	8	355,329.401	0.000	38,330.415	316,998.986	355,329.401	0		0
2000	9	374,489.783	28.180	32,909.612	341,551.991	374,489.783	0		0

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2000	10	323,600.104	1,510.223	7,595.996	314,493.884	323,600.104	0		
2000	11	306,473.578	5,245.961	1,013.851	300,213.766	306,473.578	0		
2000	12	355,961.944	23,504.099	0.000	332,457.845	355,961.944	0		
2001	1	359,812.993	34,849.407	0.000	324,963.586	359,812.993	0		
2001	2	324,432.913	26,197.475	0.000	298,235.438	324,432.913	0		
2001	3	317,878.153	20,937.886	0.000	296,940.267	317,878.153	0		
2001	4	314,642.490	13,954.280	1,403.816	299,284.394	314,642.490	0		
2001	5	323,655.746	2,796.099	7,522.269	313,337.377	323,655.746	0		
2001	6	329,421.690	301.632	12,562.519	316,557.539	329,421.690	0		
2001	7	360,151.594	52.613	36,779.319	323,319.662	360,151.594	0		
2001	8	388,368.332	0.000	55,405.095	332,963.237	388,368.332	0		
2001	9	371,170.035	13.151	30,849.076	340,307.808	371,170.035	0		
2001	10	319,116.077	1,564.313	4,203.227	313,348.536	319,116.077	0		
2001	11	300,184.718	5,523.408	135.009	294,526.301	300,184.718	0		
2001	12	328,372.179	9,269.014	0.000	319,103.165	328,372.179	0		
2002	1	350,566.334	21,728.301	0.000	328,838.033	350,566.334	0		
2002	2	316,049.421	18,560.664	0.000	297,488.757	316,049.421	0		
2002	3	310,820.374	18,319.147	0.000	292,501.227	310,820.374	0		
2002	4	319,383.038	13,934.758	2,613.066	302,835.214	319,383.038	0		
2002	5	310,857.095	4,415.765	6,147.382	300,293.948	310,857.095	0		
2002	6	341,099.909	1,651.513	15,002.990	324,445.405	341,099.909	0		
2002	7	390,064.855	0.000	58,829.142	331,235.713	390,064.855	0		
2002	8	388,613.231	0.000	65,244.452	323,368.779	388,613.231	0		
2002	9	390,114.507	7.061	41,938.110	348,169.335	390,114.507	0		
2002	10	336,752.714	1,501.223	16,315.951	318,935.540	336,752.714	0		
2002	11	306,295.808	10,158.075	1,058.839	295,078.894	306,295.808	0		
2002	12	349,722.082	20,408.712	0.000	329,313.370	349,722.082	0		
2003	1	364,687.067	25,398.334	0.000	339,288.733	364,687.067	0		
2003	2	345,225.545	32,839.800	0.000	312,385.745	345,225.545	0		
2003	3	330,795.086	27,836.154	0.000	302,958.932	330,795.086	0		
2003	4	309,781.873	11,349.099	72.407	298,360.367	309,781.873	0		
2003	5	319,126.410	4,104.850	751.090	314,270.469	319,126.410	0		
2003	6	322,039.984	484.405	4,186.832	317,368.746	322,039.984	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2003	7	368,687.037	5.018	34,221.819	334,460.200	368,687.037	0		
2003	8	363,079.733	0.000	39,685.284	323,394.449	363,079.733	0		
2003	9	392,392.427	1.004	35,031.983	357,359.439	392,392.427	0		
2003	10	317,567.914	2,489.725	3,771.691	311,306.498	317,567.914	0		
2003	11	301,904.088	6,877.459	171.768	294,854.862	301,904.088	0		
2003	12	348,434.292	15,727.473	26.427	332,680.392	348,434.292	0		
2004	1	364,744.397	23,098.246	0.000	341,646.151	364,744.397	0		
2004	2	349,077.221	32,631.092	0.000	316,446.129	349,077.221	0		
2004	3	327,199.018	20,838.152	0.000	306,360.866	327,199.018	0		
2004	4	320,234.493	10,480.807	725.611	309,028.075	320,234.493	0		
2004	5	326,916.292	3,149.496	8,091.493	315,675.304	326,916.292	0		
2004	6	363,328.993	275.182	19,986.215	343,067.596	363,328.993	0		
2004	7	374,909.983	0.000	31,307.750	343,602.233	374,909.983	0		
2004	8	355,640.688	0.000	28,136.484	327,504.204	355,640.688	0		
2004	9	378,746.461	0.000	25,058.479	353,687.982	378,746.461	0		
2004	10	338,487.941	1,447.258	8,765.253	328,275.430	338,487.941	0		
2004	11	314,090.173	4,903.991	558.770	308,627.412	314,090.173	0		
2004	12	351,508.911	14,268.501	39.891	337,200.518	351,508.911	0		
2005	1	363,418.088	25,246.154	0.000	338,171.934	363,418.088	0		
2005	2	344,770.856	28,554.236	0.000	316,216.620	344,770.856	0		
2005	3	335,779.672	22,782.763	0.000	312,996.909	335,779.672	0		
2005	4	329,337.960	12,197.500	192.696	316,947.764	329,337.960	0		
2005	5	319,755.745	5,045.437	2,256.568	312,453.740	319,755.745	0		
2005	6	364,907.437	840.241	17,550.806	346,516.391	364,907.437	0		
2005	7	409,181.637	0.000	56,538.708	352,642.929	409,181.637	0		
2005	8	400,084.545	0.000	63,705.189	336,379.356	400,084.545	0		
2005	9	399,790.212	0.000	39,005.153	360,785.059	399,790.212	0		
2005	10	364,679.919	690.373	18,132.054	345,857.491	364,679.919	0		
2005	11	316,067.582	6,085.156	1,468.173	308,514.253	316,067.582	0		
2005	12	359,379.445	21,460.049	0.000	337,919.396	359,379.445	0		
2006	1	374,280.091	22,153.913	0.000	352,126.178	374,280.091	0		
2006	2	343,285.703	18,218.265	0.000	325,067.438	343,285.703	0		
2006	3	333,364.556	20,364.748	0.000	312,999.808	333,364.556	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2006	4	315,645.764	11,477.561	200.444	303,967.759	315,645.764	0		
2006	5	327,682.189	2,450.796	387.863	324,843.530	327,682.189	0		
2006	6	364,095.445	945.601	17,426.486	345,723.357	364,095.445	0		
2006	7	406,662.944	0.000	40,324.917	366,338.027	406,662.944	0		
2006	8	399,074.522	0.000	60,313.205	338,761.317	399,074.522	0		
2006	9	395,111.084	53.893	25,047.526	370,009.664	395,111.084	0		
2006	10	338,651.385	1,861.790	2,311.182	334,478.413	338,651.385	0		
2006	11	333,389.652	9,709.814	211.012	323,468.826	333,389.652	0		
2006	12	359,885.498	14,236.972	0.000	345,648.526	359,885.498	0		
2007	1	369,029.947	15,945.023	0.000	353,084.924	369,029.947	0		
2007	2	368,672.079	28,949.363	0.000	339,722.716	368,672.079	0		
2007	3	353,947.115	26,583.258	13.398	327,350.458	353,947.115	0		
2007	4	340,851.463	10,002.085	844.389	330,004.989	340,851.463	0		
2007	5	341,265.716	3,799.642	4,256.658	333,209.415	341,265.716	0		
2007	6	388,267.420	259.036	29,961.599	358,046.785	388,267.420	0		
2007	7	406,038.797	0.000	44,081.689	361,957.108	406,038.797	0		
2007	8	409,790.281	0.000	52,355.718	357,434.563	409,790.281	0		
2007	9	419,466.134	46.104	43,770.380	375,649.650	419,466.134	0		
2007	10	375,985.093	464.298	21,501.491	354,019.305	375,985.093	0		
2007	11	342,904.544	5,655.455	4,559.355	332,689.733	342,904.544	0		
2007	12	370,416.087	17,824.147	0.000	352,591.940	370,416.087	0		
2008	1	389,453.135	21,498.041	0.000	367,955.094	389,453.135	0		
2008	2	370,721.836	25,730.165	0.000	344,991.671	370,721.836	0		
2008	3	354,583.124	24,404.504	0.000	330,178.620	354,583.124	0		
2008	4	332,968.389	12,870.649	49.905	320,047.835	332,968.389	0		
2008	5	327,175.623	3,113.492	1,958.336	322,103.795	327,175.623	0		
2008	6	366,596.069	717.380	19,343.717	346,534.972	366,596.069	0		
2008	7	400,782.933	0.921	37,346.606	363,435.406	400,782.933	0		
2008	8	390,932.656	0.000	46,983.608	343,949.048	390,932.656	0		
2008	9	397,098.594	0.000	34,730.499	362,368.095	397,098.594	0		
2008	10	356,391.437	807.095	9,389.821	346,194.521	356,391.437	0		
2008	11	338,211.523	6,464.922	606.284	331,140.317	338,211.523	0		
2008	12	365,017.651	19,222.009	0.000	345,795.642	365,017.651	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2009	1	394,538.834	24,327.053	0.000	370,211.781	394,538.834	0		
2009	2	366,825.195	28,645.240	0.000	338,179.955	366,825.195	0		
2009	3	332,585.374	17,228.675	0.000	315,356.699	332,585.374	0		
2009	4	328,150.270	8,881.671	103.952	319,164.647	328,150.270	0		
2009	5	324,226.598	3,416.641	5,187.106	315,622.851	324,226.598	0		
2009	6	350,857.012	367.721	13,043.784	337,445.506	350,857.012	0		
2009	7	386,570.328	0.000	36,811.669	349,758.659	386,570.328	0		
2009	8	367,950.298	0.000	29,566.635	338,383.663	367,950.298	0		
2009	9	379,199.408	0.000	21,239.765	357,959.643	379,199.408	0		
2009	10	348,123.717	1,967.196	6,439.360	339,717.161	348,123.717	0		
2009	11	320,684.416	5,363.252	0.000	315,321.164	320,684.416	0		
2009	12	363,678.631	12,535.252	0.000	351,143.379	363,678.631	0		
2010	1	390,926.180	23,468.641	0.000	367,457.539	390,926.180	0		
2010	2	342,435.270	24,142.241	0.000	318,293.029	342,435.270	0		
2010	3	340,871.698	18,404.785	0.000	322,466.913	340,871.698	0		
2010	4	329,090.863	6,202.547	1,661.084	321,227.232	329,090.863	0		
2010	5	318,589.813	1,457.339	3,854.885	313,277.589	318,589.813	0		
2010	6	375,075.771	297.527	35,429.200	339,349.044	375,075.771	0		
2010	7	399,476.808	0.000	63,689.089	335,787.719	399,476.808	0		
2010	8	402,478.911	0.000	71,702.995	330,775.916	402,478.911	0		
2010	9	395,922.006	0.000	43,802.119	352,119.887	395,922.006	0		
2010	10	379,838.477	686.240	12,779.472	366,372.765	379,838.477	0		
2010	11	277,649.071	5,302.777	1,143.529	271,202.765	277,649.071	0		
2010	12	353,758.393	17,208.294	0.000	336,550.099	353,758.393	0		
2011	1	378,609.008	24,927.248	0.000	353,681.760	378,609.008	0		
2011	2	345,121.517	26,879.156	0.000	318,242.361	345,121.517	0		
2011	3	338,340.984	18,320.683	0.000	320,020.301	338,340.984	0		
2011	4	303,703.991	10,601.505	412.278	292,690.208	303,703.991	0		
2011	5	325,502.938	3,269.300	3,362.381	318,871.257	325,502.938	0		
2011	6	369,072.069	456.359	30,395.204	338,220.507	369,072.069	0		
2011	7	386,329.249	0.000	56,179.950	330,149.299	386,329.249	0		
2011	8	424,529.463	0.000	80,496.736	344,032.727	424,529.463	0		
2011	9	379,601.738	69.719	37,825.432	341,706.587	379,601.738	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2011	10	326,165.686	837.125	5,084.863	320,243.698	326,165.686	0		
2011	11	311,472.834	4,706.762	156.781	306,609.291	311,472.834	0		
2011	12	356,457.823	11,130.305	0.000	345,327.518	356,457.823	0		
2012	1	362,330.728	16,469.795	0.000	345,860.933	362,330.728	0		
2012	2	329,502.490	18,822.600	0.000	310,679.890	329,502.490	0		
2012	3	327,433.337	13,284.355	1,292.232	312,856.750	327,433.337	0		
2012	4	325,983.546	3,515.378	4,173.352	318,294.816	325,983.546	0		
2012	5	325,382.513	2,649.037	5,326.352	317,407.124	325,382.513	0		
2012	6	365,095.558	88.158	30,203.469	334,803.931	365,095.558	0		
2012	7	410,627.821	8.316	72,861.604	337,757.901	410,627.821	0		
2012	8	394,399.875	0.000	63,422.704	330,977.171	394,399.875	0		
2012	9	376,476.640	56.947	31,139.958	345,279.735	376,476.640	0		
2012	10	323,549.607	1,895.856	4,599.936	317,053.815	323,549.607	0		
2012	11	316,102.214	7,018.699	449.837	308,633.678	316,102.214	0		
2012	12	336,189.939	11,868.275	0.000	324,321.664	336,189.939	0		
2013	1	352,664.604	18,408.306	0.000	334,256.298	352,664.604	0		
2013	2	339,328.752	21,175.540	0.000	318,153.212	339,328.752	0		
2013	3	334,492.396	19,099.468	0.000	315,392.928	334,492.396	0		
2013	4	320,807.929	13,071.909	0.000	307,736.020	320,807.929	0		
2013	5	315,125.067	3,360.166	4,327.577	307,437.323	315,125.067	0		
2013	6	351,502.596	344.397	22,984.837	328,173.362	351,502.596	0		
2013	7	377,752.169	0.000	46,634.038	331,118.131	377,752.169	0		
2013	8	364,621.955	0.000	36,775.501	327,846.454	364,621.955	0		
2013	9	381,913.283	15.974	36,103.060	345,794.249	381,913.283	0		
2013	10	344,515.393	541.917	13,208.271	330,765.205	344,515.393	0		
2013	11	317,239.563	6,700.365	1,178.366	309,360.831	317,239.563	0		
2013	12	349,952.264	16,723.655	0.000	333,228.609	349,952.264	0		
2014	1	378,861.609	23,952.882	0.000	354,908.727	378,861.609	0		
2014	2	349,751.111	29,441.248	0.000	320,309.863	349,751.111	0		
2014	3	340,598.808	25,500.439	0.000	315,098.369	340,598.808	0		
2014	4	316,409.278	13,167.476	0.000	303,241.802	316,409.278	0		
2014	5	318,113.791	3,226.218	3,054.080	311,833.492	318,113.791	0		
2014	6	350,135.743	653.953	23,487.889	325,993.901	350,135.743	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2014	7	368,620.006	0.000	43,943.376	324,676.630	368,620.006	0		
2014	8	355,340.620	0.000	28,193.078	327,147.542	355,340.620	0		
2014	9	378,858.172	41.935	35,236.720	343,579.517	378,858.172	0		
2014	10	323,674.497	1,172.452	3,680.518	318,821.527	323,674.497	0		
2014	11	314,126.318	7,127.275	70.620	306,928.423	314,126.318	0		
2014	12	361,778.871	16,802.546	0.000	344,976.325	361,778.871	0		
2015	1	365,872.230	20,909.804	0.000	344,962.426	365,872.230	0		
2015	2	343,014.456	25,169.219	0.000	317,845.237	343,014.456	0		
2015	3	340,763.974	26,097.096	0.000	314,666.878	340,763.974	0		
2015	4	320,123.959	10,770.986	0.000	309,352.973	320,123.959	0		
2015	5	311,344.327	2,845.153	6,003.316	302,495.858	311,344.327	0		
2015	6	350,064.054	288.070	24,856.122	324,919.862	350,064.054	0		
2015	7	362,974.694	2.051	32,495.911	330,476.732	362,974.694	0		
2015	8	370,345.435	0.000	45,386.010	324,959.425	370,345.435	0		
2015	9	378,348.564	0.000	35,490.023	342,858.541	378,348.564	0		
2015	10	329,564.918	545.954	11,749.137	317,269.827	329,564.918	0		
2015	11	305,843.144	3,522.138	309.716	302,011.290	305,843.144	0		
2015	12	343,874.009	9,850.753	0.000	334,023.256	343,874.009	0		
2016	1	345,499.580	14,948.201	0.000	330,551.379	345,499.580	0		
2016	2	332,849.441	20,778.439	0.000	312,071.002	332,849.441	0		
2016	3	318,029.443	14,208.750	0.000	303,820.693	318,029.443	0		
2016	4	307,275.375	7,667.467	0.000	299,607.908	307,275.375	0		
2016	5	301,161.423	3,092.801	360.784	297,707.837	301,161.423	0		
2016	6	346,935.732	546.651	26,156.411	320,232.670	346,935.732	0		
2016	7	375,384.403	0.000	43,897.413	331,486.990	375,384.403	0		
2016	8	394,392.552	0.000	64,860.182	329,532.370	394,392.552	0		
2016	9	394,550.586	0.000	48,768.142	345,782.444	394,550.586	0		
2016	10	348,511.078	186.493	19,025.258	329,299.328	348,511.078	0		
2016	11	307,551.274	3,059.995	3,199.781	301,291.498	307,551.274	0		
2016	12	350,821.389	13,612.300	127.561	337,081.528	350,821.389	0		
2017	1	361,957.604	20,190.139	0.000	341,767.465	361,957.604	0		
2017	2	320,251.506	15,451.770	0.000	304,799.736	320,251.506	0		
2017	3	309,248.987	11,814.346	0.000	297,434.641	309,248.987	0		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2017	4	304,811.108	8,335.687	813.944	295,661.477	304,811.108	0	0	0
2017	5	300,829.959	2,174.702	5,380.170	293,275.087	300,829.959	0	0	0
2017	6	336,727.684	426.197	20,574.808	315,726.679	336,727.684	0	0	0
2017	7	367,473.708	0.000	45,062.940	322,410.768	367,473.708	0	0	0
2017	8	367,840.400	0.000	42,095.471	325,744.929	367,840.400	0	0	0
2017	9	351,501.388	0.000	20,284.626	331,216.762	351,501.388	0	0	0
2017	10	343,669.068	100.148	21,322.352	322,246.568	343,669.068	0	0	0
2017	11	303,957.962	5,973.989	2,298.080	295,685.893	303,957.962	0	0	0
2017	12	344,236.664	12,686.101	0.000	331,550.563	344,236.664	0	0	0
2018	1	368,511.428	25,425.001	0.000	343,086.427	368,511.428	0	0	0
2018	2	328,637.036	21,256.013	0.000	307,381.023	328,637.036	0	0	0
2018	3	308,045.565	14,673.921	0.000	293,371.644	308,045.565	0	0	0
2018	4	315,648.589	12,960.046	82.966	302,605.577	315,648.589	0	0	0
2018	5	309,129.309	4,449.841	4,606.398	300,073.070	309,129.309	0	0	0
2018	6	357,718.914	47.000	36,567.549	321,104.365	357,718.914	0	0	0
2018	7	381,665.823	0.000	58,559.433	323,106.390	381,665.823	0	0	0
2018	8	372,146.162	0.000	49,121.331	323,024.831	372,146.162	0	0	0
2018	9	383,234.694	0.000	50,671.583	332,563.111	383,234.694	0	0	0
2018	10	339,807.588	979.363	25,241.498	313,586.727	339,807.588	0	0	0
2018	11	306,636.510	7,623.027	3,563.182	295,450.301	306,636.510	0	0	0
2018	12	346,928.709	15,137.187	0.000	331,791.522	346,928.709	0	0	0
2019	1	337,721.687	15,415.799	0.000	322,305.888	337,721.687	1150	1150	1150
2019	2	0	21,983.507	0.000	304,557.105	326,540.612	1150	1150	1150
2019	3	0	17,669.652	63.778	298,412.551	316,145.981	1150	1150	1150
2019	4		9,856.805	531.755	297,032.843	307,421.402	1150	1150	1150
2019	5		3,133.675	3,742.512	300,728.460	307,604.647	1150	1150	1150
2019	6		437.850	20,114.521	319,485.525	340,037.895	1150	1150	1150
2019	7		5.429	46,404.144	326,281.225	372,690.798	1150	1150	1150
2019	8		0.000	48,685.201	320,936.135	369,621.336	1150	1150	1150
2019	9		19.387	34,446.554	337,380.091	371,846.033	1150	1150	1150
2019	10		1,077.240	10,300.210	316,859.801	328,237.251	1150	1150	1150
2019	11		5,754.880	984.567	297,747.104	304,486.551	1150	1150	1150
2019	12		13,646.482	12.657	323,885.271	337,544.410	1150	1150	1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2020	1	20,332.578	0.000	327,016.476		347,349.054	1150		
2020	2	21,839.169	0.000	300,863.211		322,702.380	1150		
2020	3	17,538.098	63.117	294,535.074		312,136.289	1150		
2020	4	9,774.272	525.750	292,853.739		303,153.761	1150		
2020	5	3,105.666	3,698.145	296,446.803		303,250.614	1150		
2020	6	433.763	19,868.132	314,946.106		335,248.001	1150		
2020	7	5.377	45,821.064	321,669.464		367,495.905	1150		
2020	8	0.000	48,068.581	316,485.604		364,554.185	1150		
2020	9	19.205	34,022.422	332,872.484		366,914.110	1150		
2020	10	1,067.355	10,175.654	312,559.335		323,802.344	1150		
2020	11	5,704.322	973.045	293,577.889		300,255.256	1150		
2020	12	13,530.779	12.513	319,373.533		332,916.825	1150		
2021	1	20,182.621	0.000	322,641.277		342,823.898	1150		
2021	2	21,695.158	0.000	297,119.084		318,814.242	1150		
2021	3	17,436.381	62.574	291,016.548		308,515.503	1150		
2021	4	9,725.698	521.662	289,476.999		299,724.360	1150		
2021	5	3,092.758	3,672.389	293,298.386		300,063.533	1150		
2021	6	432.299	19,745.240	311,879.702		332,057.241	1150		
2021	7	5.362	45,571.046	318,792.707		364,369.116	1150		
2021	8	0.000	47,838.825	313,887.990		361,726.814	1150		
2021	9	19.179	33,880.738	330,341.544		364,241.460	1150		
2021	10	1,066.511	10,138.932	310,247.477		321,452.920	1150		
2021	11	5,702.638	970.015	291,402.779		298,075.433	1150		
2021	12	13,534.998	12.482	317,135.386		330,682.866	1150		
2022	1	20,257.347	0.000	320,949.776		341,207.122	1150		
2022	2	21,787.326	0.000	295,727.305		317,514.630	1150		
2022	3	17,518.619	62.531	289,747.266		307,328.416	1150		
2022	4	9,775.781	521.524	288,288.856		298,586.161	1150		
2022	5	3,109.853	3,672.792	292,210.535		298,993.179	1150		
2022	6	434.824	19,753.562	310,829.144		331,017.530	1150		
2022	7	5.395	45,601.092	317,802.759		363,409.246	1150		
2022	8	0.000	47,879.110	312,980.988		360,860.098	1150		
2022	9	19.302	33,914.939	329,445.058		363,379.299	1150		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2022	10		1,073.512	10,150.509	309,412.360	320,636.381	1150		
2022	11		5,740.809	971.247	290,604.266	297,316.321	1150		
2022	12		13,623.756	12.496	316,219.529	329,855.781	1150		
2023	1		19,869.533	0.000	320,277.560	340,147.093	1150		
2023	2		21,367.113	0.000	295,087.410	316,454.523	1150		
2023	3		17,178.347	62.381	289,079.572	306,320.300	1150		
2023	4		9,584.873	520.220	287,582.822	297,687.915	1150		
2023	5		3,048.906	3,663.352	291,493.385	298,205.643	1150		
2023	6		426.293	19,702.380	310,080.047	330,208.719	1150		
2023	7		5.289	45,484.967	317,065.633	362,555.889	1150		
2023	8		0.000	47,762.003	312,297.041	360,059.044	1150		
2023	9		18.929	33,837.522	328,778.079	362,634.530	1150		
2023	10		1,052.993	10,129.414	308,816.258	319,998.665	1150		
2023	11		5,632.468	969.467	290,070.967	296,672.902	1150		
2023	12		13,368.869	12.475	315,674.841	329,056.186	1150		
2024	1		19,519.791	0.000	319,965.788	339,485.579	1150		
2024	2		20,994.619	0.000	294,847.783	315,842.401	1150		
2024	3		16,881.768	62.359	288,882.444	305,826.572	1150		
2024	4		9,420.831	520.114	287,418.827	297,359.772	1150		
2024	5		2,997.137	3,663.108	291,363.631	298,023.876	1150		
2024	6		419.101	19,703.211	309,972.416	330,094.727	1150		
2024	7		5.200	45,489.882	316,974.444	362,469.526	1150		
2024	8		0.000	47,768.742	312,217.316	359,986.058	1150		
2024	9		18.612	33,842.333	328,695.886	362,556.830	1150		
2024	10		1,035.306	10,130.620	308,731.258	319,897.184	1150		
2024	11		5,537.625	969.542	289,976.617	296,483.784	1150		
2024	12		13,141.985	12.474	315,535.645	328,690.104	1150		
2025	1		19,190.579	0.000	319,905.099	339,095.679	1150		
2025	2		20,637.069	0.000	294,753.128	315,390.198	1150		
2025	3		16,591.398	62.361	288,747.706	305,401.465	1150		
2025	4		9,257.220	520.046	287,240.730	297,017.996	1150		
2025	5		2,944.604	3,662.032	291,147.819	297,754.455	1150		
2025	6		411.692	19,694.409	309,710.631	329,816.732	1150		

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2025	7		5,108	45,463.328	316,679.016	362,147.452			1150
2025	8		0,000	47,734.948	311,904.110	359,639.058			1150
2025	9		18,276	33,814.809	328,345.911	362,178.996			1150
2025	10		1,016.531	10,121.394	308,369.629	319,507.554			1150
2025	11		5,436.710	968.571	289,596.120	296,001.400			1150
2025	12		12,901.649	12,461	315,099.118	328,013.228			1150
2026	1		18,842.384	0,000	318,613.116	337,455.500			1150
2026	2		20,261.568	0,000	293,577.779	313,839.346			1150
2026	3		16,288.859	62,318	287,572.577	303,923.754			1150
2026	4		9,088.068	519.666	286,034.630	295,642.365			1150
2026	5		2,890.690	3,659.218	289,942.739	296,492.648			1150
2026	6		404.138	19,678.513	308,451.065	328,533.716			1150
2026	7		5,014	45,424.921	315,411.732	360,841.667			1150
2026	8		0,000	47,692.898	310,678.399	358,371.296			1150
2026	9		17,939	33,783.555	327,067.732	360,869.225			1150
2026	10		997.722	10,111.620	307,123.873	318,233.216			1150
2026	11		5,335.917	967.600	288,350.930	294,654.446			1150
2026	12		12,662.534	12,449	313,727.651	326,402.634			1150
2027	1		18,500.784	0,000	317,406.987	335,907.771			1150
2027	2		19,894.790	0,000	292,498.740	312,393.530			1150
2027	3		15,994.452	62,291	286,509.101	302,565.845			1150
2027	4		8,924.160	519.459	284,960.864	294,404.482			1150
2027	5		2,838.689	3,657.929	288,889.010	295,385.627			1150
2027	6		396.890	19,672.668	307,371.713	327,441.271			1150
2027	7		4,924	45,414.357	314,349.569	359,768.850			1150
2027	8		0,000	47,685.217	309,675.122	357,360.339			1150
2027	9		17,621	33,780.793	326,049.543	359,847.956			1150
2027	10		980.123	10,111.657	306,159.470	317,251.250			1150
2027	11		5,242.246	967.687	287,413.848	293,623.781			1150
2027	12		12,441.272	12,451	312,715.680	325,169.403			1150
2028	1		18,173.729	0,000	316,569.972	334,743.702			1150
2028	2		19,544.772	0,000	291,765.595	311,310.367			1150
2028	3		15,714.352	62,346	285,801.246	301,577.944			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2028	4	8,768.437	519.951	284,255.102		293,543.490	1150		1150
2028	5	2,789.313	3,661.607	288,202.432		294,653.351	1150		1150
2028	6	390.005	19,693.359	306,670.835		326,754.198	1150		1150
2028	7	4.839	45,463.539	313,657.164		359,125.542	1150		1150
2028	8	0.000	47,737.673	309,014.086		356,751.759	1150		1150
2028	9	17.316	33,818.157	325,367.368		359,202.841	1150		1150
2028	10	963.166	10,122.782	305,498.427		316,584.375	1150		1150
2028	11	5,151.460	968.734	286,753.588		292,873.783	1150		1150
2028	12	12,225.655	12.464	311,984.290		324,222.409	1150		1150
2029	1	17,870.284	0.000	315,981.082		333,851.366	1150		1150
2029	2	19,218.013	0.000	291,230.352		310,448.364	1150		1150
2029	3	15,451.179	62.436	285,263.513		300,777.128	1150		1150
2029	4	8,621.434	520.692	283,703.107		292,845.232	1150		1150
2029	5	2,742.492	3,666.742	287,649.967		294,059.200	1150		1150
2029	6	383.448	19,720.478	306,091.601		326,195.527	1150		1150
2029	7	4.758	45,525.386	313,074.541		358,604.685	1150		1150
2029	8	0.000	47,801.683	308,449.913		356,251.596	1150		1150
2029	9	17.024	33,863.109	324,781.092		358,661.225	1150		1150
2029	10	946.917	10,136.110	304,928.527		316,011.554	1150		1150
2029	11	5,064.524	970.004	286,186.466		292,220.994	1150		1150
2029	12	12,018.977	12.480	311,351.307		323,382.764	1150		1150
2030	1	17,565.675	0.000	314,433.270		331,998.945	1150		1150
2030	2	18,889.910	0.000	289,830.661		308,720.571	1150		1150
2030	3	15,187.045	62.499	283,870.017		299,119.562	1150		1150
2030	4	8,473.860	521.211	282,278.386		291,273.457	1150		1150
2030	5	2,695.484	3,670.310	286,231.369		292,597.164	1150		1150
2030	6	376.871	19,739.403	304,616.805		324,733.079	1150		1150
2030	7	4.676	45,568.176	311,596.722		357,169.574	1150		1150
2030	8	0.000	47,846.038	307,027.706		354,873.745	1150		1150
2030	9	16.731	33,894.060	323,306.922		357,217.713	1150		1150
2030	10	930.622	10,145.269	303,500.614		314,576.505	1150		1150
2030	11	4,977.316	970.870	284,766.555		290,714.742	1150		1150
2030	12	11,812.086	12.491	309,787.120		321,611.698	1150		1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2031	1	17,255.163	0.000	313,107.691		330,362.854			1150
2031	2	18,556.242	0.000	288,640.647		307,196.888			1150
2031	3	14,918.978	62.585	282,692.724		297,674.287			1150
2031	4	8,324.398	521.929	281,082.362		289,928.689			1150
2031	5	2,647.977	3,675.420	285,048.334		291,371.731			1150
2031	6	370.232	19,767.060	303,391.809		323,529.102			1150
2031	7	4.594	45,632.459	310,375.530		356,012.583			1150
2031	8	0.000	47,914.024	305,857.153		353,771.177			1150
2031	9	16.437	33,942.404	322,097.668		356,056.509			1150
2031	10	914.255	10,159.779	302,332.172		313,406.206			1150
2031	11	4,889.814	972.266	283,608.428		289,470.508			1150
2031	12	11,604.251	12.509	308,506.245		320,123.005			1150
2032	1	16,956.049	0.000	312,072.319		329,028.368			1150
2032	2	18,234.459	0.000	287,707.226		305,941.686			1150
2032	3	14,660.238	62.696	281,766.406		296,489.340			1150
2032	4	8,179.951	522.856	280,136.687		288,839.494			1150
2032	5	2,602.017	3,681.929	284,109.406		290,393.351			1150
2032	6	363.804	19,801.938	302,416.319		322,582.060			1150
2032	7	4.514	45,712.863	309,400.630		355,118.007			1150
2032	8	0.000	47,998.288	304,920.013		352,918.302			1150
2032	9	16.151	34,002.228	321,129.421		355,147.801			1150
2032	10	898.382	10,177.716	301,396.572		312,472.669			1150
2032	11	4,804.931	973.985	282,680.319		288,459.234			1150
2032	12	11,403.044	12.531	307,488.051		318,903.627			1150
2033	1	16,675.155	0.000	311,185.152		327,860.308			1150
2033	2	17,932.752	0.000	286,913.364		304,846.116			1150
2033	3	14,417.877	62.837	280,982.304		295,463.018			1150
2033	4	8,044.917	524.043	279,343.712		287,912.671			1150
2033	5	2,559.116	3,690.364	283,327.668		289,577.148			1150
2033	6	357.813	19,847.727	301,610.521		321,816.061			1150
2033	7	4.440	45,819.322	308,599.749		354,423.510			1150
2033	8	0.000	48,110.707	304,153.831		352,264.537			1150
2033	9	15.886	34,082.133	320,338.917		354,436.937			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2033	10		883.628	10,201.707	300,633.812	311,719.146			1150
2033	11		4,726.037	976.284	281,924.037	287,626.359			1150
2033	12		11,215.580	12.561	306,648.861	317,877.002			1150
2034	1		16,400.438	0.000	310,495.425	326,895.863			1150
2034	2		17,636.817	0.000	286,286.001	303,922.818			1150
2034	3		14,179.607	63.006	280,354.593	294,597.205			1150
2034	4		7,911.737	525.433	278,697.607	287,134.777			1150
2034	5		2,516.680	3,700.049	282,680.394	288,897.123			1150
2034	6		351.870	19,899.264	300,932.486	321,183.620			1150
2034	7		4.366	45,937.218	307,916.917	353,858.500			1150
2034	8		0.000	48,233.190	303,491.760	351,724.950			1150
2034	9		15.621	34,167.997	319,647.933	353,831.551			1150
2034	10		868.862	10,227.151	299,959.866	311,055.880			1150
2034	11		4,646.929	978.690	281,248.325	286,873.945			1150
2034	12		11,027.948	12.592	305,906.180	316,946.720			1150
2035	1		16,135.027	0.000	309,908.641	326,043.668			1150
2035	2		17,351.732	0.000	285,762.256	303,113.988			1150
2035	3		13,950.627	63.187	279,838.752	293,852.566			1150
2035	4		7,784.089	526.954	278,175.635	286,486.678			1150
2035	5		2,476.106	3,710.807	282,165.492	288,352.406			1150
2035	6		346.199	19,957.222	300,399.563	320,702.984			1150
2035	7		4.295	46,071.080	307,384.984	353,460.359			1150
2035	8		0.000	48,373.821	302,981.226	351,355.047			1150
2035	9		15.369	34,267.462	319,118.883	353,401.715			1150
2035	10		854.849	10,256.824	299,446.072	310,557.744			1150
2035	11		4,571.945	981.522	280,736.464	286,289.931			1150
2035	12		10,849.843	12.628	305,338.202	316,200.673			1150
2036	1		15,875.082	0.000	309,442.863	325,317.945			1150
2036	2		17,072.119	0.000	285,342.106	302,414.225			1150
2036	3		13,725.721	63.388	279,420.360	293,209.468			1150
2036	4		7,658.499	528.621	277,746.512	285,933.632			1150
2036	5		2,436.120	3,722.492	281,736.470	287,895.081			1150
2036	6		340.604	20,019.816	299,951.615	320,312.035			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2036	7		4,226	46,214.944	306,934.324	353,153.493			1150
2036	8		0.000	48,524.409	302,546.187	351,070.596			1150
2036	9		15.120	34,373.853	318,667.031	353,056.004			1150
2036	10		841.002	10,288.607	299,007.801	310,137.411			1150
2036	11		4,497.865	984.558	280,300.216	285,782.639			1150
2036	12		10,673.855	12.667	304,852.816	315,539.338			1150
2037	1		15,622.725	0.000	309,056.685	324,679.410			1150
2037	2		16,800.367	0.000	284,989.511	301,789.878			1150
2037	3		13,506.975	63.602	279,066.246	292,636.823			1150
2037	4		7,536.346	530.395	277,382.777	285,449.518			1150
2037	5		2,397.243	3,734.947	281,373.773	287,505.964			1150
2037	6		335.166	20,086.653	299,573.608	319,995.427			1150
2037	7		4.158	46,368.932	306,555.236	352,928.327			1150
2037	8		0.000	48,685.734	302,180.410	350,866.144			1150
2037	9		14.879	34,487.991	318,287.796	352,790.665			1150
2037	10		827.557	10,322.727	298,640.141	309,790.425			1150
2037	11		4,425.947	987.822	279,934.915	285,348.684			1150
2037	12		10,503.156	12.709	304,449.250	314,965.115			1150
2038	1		15,369.016	0.000	308,791.353	324,160.369			1150
2038	2		16,527.544	0.000	284,750.826	301,278.370			1150
2038	3		13,287.678	63.830	278,830.269	292,181.776			1150
2038	4		7,414.003	532.299	277,142.905	285,089.207			1150
2038	5		2,358.323	3,748.352	281,135.485	287,242.160			1150
2038	6		329.725	20,158.784	299,326.912	319,815.421			1150
2038	7		4.091	46,535.429	306,308.778	352,848.298			1150
2038	8		0.000	48,860.476	301,943.359	350,803.835			1150
2038	9		14.637	34,611.639	318,041.726	352,668.002			1150
2038	10		814.116	10,359.712	298,401.648	309,575.476			1150
2038	11		4,354.033	991.354	279,696.635	285,042.022			1150
2038	12		10,332.566	12.754	304,188.172	314,533.493			1150
2039	1		15,123.998	0.000	308,635.216	323,759.214			1150
2039	2		16,264.218	0.000	284,612.558	300,876.776			1150
2039	3		13,076.083	64.075	278,695.077	291,835.235			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2039	4	7,296.033	534.348	277,008.120		284,838.501			1150
2039	5	2,320.830	3,762.827	281,004.948		287,088.605			1150
2039	6	324.488	20,236.928	299,194.979		319,756.395			1150
2039	7	4.026	46,716.489	306,180.393		352,900.908			1150
2039	8	0.000	49,051.389	301,823.799		350,875.188			1150
2039	9	14.405	34,747.463	317,922.053		352,683.921			1150
2039	10	801.234	10,400.516	298,289.216		309,490.967			1150
2039	11	4,285.218	995.277	279,589.086		284,869.580			1150
2039	12	10,169.794	12.806	304,082.679		314,265.278			1150
2040	1	14,881.681	0.000	307,905.955		322,787.636			1150
2040	2	16,004.788	0.000	283,972.567		299,977.355			1150
2040	3	12,868.400	64.313	278,075.983		291,008.696			1150
2040	4	7,180.578	536.367	276,391.168		284,108.113			1150
2040	5	2,284.233	3,777.260	280,405.977		286,467.470			1150
2040	6	319.386	20,315.528	298,585.102		319,220.016			1150
2040	7	3.963	46,900.091	305,582.133		352,486.187			1150
2040	8	0.000	49,246.172	301,258.430		350,504.602			1150
2040	9	14.181	34,886.961	317,347.579		352,248.720			1150
2040	10	788.772	10,442.688	297,742.797		308,974.257			1150
2040	11	4,218.728	999.351	279,055.366		284,273.445			1150
2040	12	10,011.523	12.857	303,482.313		313,506.693			1150
2041	1	14,662.101	0.000	307,555.196		322,217.297			1150
2041	2	15,767.531	0.000	283,640.887		299,408.418			1150
2041	3	12,676.754	64.576	277,731.273		290,472.603			1150
2041	4	7,073.185	538.531	276,025.289		283,637.004			1150
2041	5	2,249.926	3,792.256	280,028.527		286,070.709			1150
2041	6	314.571	20,394.978	298,179.599		318,889.148			1150
2041	7	3.903	47,080.786	305,163.459		352,248.148			1150
2041	8	0.000	49,433.187	300,843.828		350,277.015			1150
2041	9	13.964	35,017.307	316,904.478		351,935.749			1150
2041	10	776.703	10,481.141	297,302.141		308,559.985			1150
2041	11	4,153.945	1,002.975	278,605.424		283,762.343			1150
2041	12	9,857.476	12.904	302,978.449		312,848.828			1150

Indiana Michigan Power Company - Indiana
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Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2042	1	14,441.797	0.000	307,219.530	321,661.327	1150			
2042	2	15,530.236	0.000	283,333.174	298,863.411	1150			
2042	3	12,485.643	64.821	277,420.089	289,970.553	1150			
2042	4	6,966.362	540.559	275,702.120	283,209.042	1150			
2042	5	2,215.892	3,806.445	279,702.405	285,724.743	1150			
2042	6	309.803	20,470.685	297,834.348	318,614.837	1150			
2042	7	3.844	47,254.071	304,811.253	352,069.168	1150			
2042	8	0.000	49,613.520	300,498.205	350,111.725	1150			
2042	9	13.751	35,143.889	316,539.326	351,696.966	1150			
2042	10	764.829	10,518.644	296,940.780	308,224.253	1150			
2042	11	4,090.286	1,006.525	278,238.161	283,334.972	1150			
2042	12	9,705.938	12.949	302,561.444	312,280.331	1150			
2043	1	14,218.926	0.000	307,021.416	321,240.342	1150			
2043	2	15,289.814	0.000	283,143.656	298,433.470	1150			
2043	3	12,291.784	65.055	277,221.705	289,578.544	1150			
2043	4	6,857.889	542.483	275,489.703	282,890.075	1150			
2043	5	2,181.278	3,819.800	279,480.182	285,481.260	1150			
2043	6	304.950	20,541.601	297,593.483	318,440.034	1150			
2043	7	3.783	47,415.776	304,560.785	351,980.345	1150			
2043	8	0.000	49,781.079	300,247.574	350,028.653	1150			
2043	9	13.534	35,261.070	316,270.134	351,544.738	1150			
2043	10	752.719	10,553.270	296,670.924	307,976.913	1150			
2043	11	4,025.347	1,009.794	277,960.542	282,995.683	1150			
2043	12	9,551.976	12.991	302,258.812	311,823.779	1150			
2044	1	14,000.105	0.000	306,870.488	320,870.593	1150			
2044	2	15,055.047	0.000	283,015.869	298,070.916	1150			
2044	3	12,103.484	65.287	277,103.023	289,271.794	1150			
2044	4	6,752.994	544.426	275,374.333	282,671.753	1150			
2044	5	2,147.976	3,833.595	279,372.357	285,353.927	1150			
2044	6	300.302	20,616.271	297,487.197	318,403.770	1150			
2044	7	3.726	47,589.086	304,459.336	352,052.148	1150			
2044	8	0.000	49,964.133	300,155.112	350,119.245	1150			
2044	9	13.329	35,391.428	316,179.124	351,583.881	1150			

Indiana Michigan Power Company - Indiana
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Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2044	10		741.305	10,592.490	296,587.311	307,921.106			1150
2044	11		3,964.378	1,013.565	277,881.601	282,859.544			1150
2044	12		9,407.102	13.039	302,166.579	311,586.720			1150
2045	1		13,785.735	0.000	306,943.254	320,728.988			1150
2045	2		14,824.018	0.000	283,073.631	297,897.649			1150
2045	3		11,917.311	65.535	277,152.052	289,134.897			1150
2045	4		6,648.971	546.483	275,419.118	282,614.572			1150
2045	5		2,114.831	3,847.969	279,410.575	285,373.376			1150
2045	6		295.661	20,693.083	297,521.247	318,509.991			1150
2045	7		3.668	47,765.348	304,488.198	352,257.214			1150
2045	8		0.000	50,148.205	300,178.386	350,326.592			1150
2045	9		13.122	35,521.009	316,197.900	351,732.030			1150
2045	10		729.786	10,631.043	296,600.589	307,961.419			1150
2045	11		3,902.714	1,017.238	277,891.126	282,811.078			1150
2045	12		9,260.667	13.086	302,174.115	311,447.868			1150
2046	1		13,578.502	0.000	307,105.558	320,684.061			1150
2046	2		14,601.043	0.000	283,217.628	297,818.671			1150
2046	3		11,738.006	65.784	277,293.879	289,097.669			1150
2046	4		6,548.862	548.554	275,561.087	282,658.502			1150
2046	5		2,082.972	3,862.519	279,549.449	285,494.939			1150
2046	6		291.203	20,771.057	297,662.252	318,724.512			1150
2046	7		3.613	47,944.786	304,626.324	352,574.723			1150
2046	8		0.000	50,335.856	300,307.721	350,643.578			1150
2046	9		12.924	35,653.431	316,328.394	351,994.749			1150
2046	10		718.741	10,670.482	296,722.654	308,111.877			1150
2046	11		3,843.564	1,020.990	278,007.427	282,871.981			1150
2046	12		9,120.151	13.134	302,297.937	311,431.221			1150
2047	1		13,376.332	0.000	307,427.994	320,804.326			1150
2047	2		14,383.350	0.000	283,503.118	297,886.468			1150
2047	3		11,562.727	66.034	277,571.728	289,200.490			1150
2047	4		6,450.933	550.631	275,839.186	282,840.751			1150
2047	5		2,051.776	3,877.057	279,819.920	285,748.753			1150
2047	6		286.836	20,848.795	297,937.776	319,073.407			1150

Indiana Michigan Power Company - Indiana
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Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2047	7		3,558	48,123.197	304,896.451	353,023.206			1150
2047	8		0,000	50,522.121	300,562.466	351,084.587			1150
2047	9		12,729	35,784.575	316,586.651	352,383.955			1150
2047	10		707,902	10,709.512	296,967.723	308,385.138			1150
2047	11		3,785.519	1,024.702	278,245.808	283,056.030			1150
2047	12		8,982.380	13.182	302,559.667	311,555.229			1150
2048	1		13,177.531	0,000	307,838.125	321,015.656			1150
2048	2		14,169.575	0,000	283,872.116	298,041.691			1150
2048	3		11,390.874	66.279	277,937.677	289,394.830			1150
2048	4		6,355.009	552.665	276,210.200	283,117.873			1150
2048	5		2,021.256	3,891.355	280,186.701	286,099.312			1150
2048	6		282.568	20,925.587	298,317.077	319,525.231			1150
2048	7		3,505	48,300.310	305,274.572	353,578.387			1150
2048	8		0,000	50,707.824	300,924.525	351,632.349			1150
2048	9		12,539	35,915.989	316,960.251	352,888.780			1150
2048	10		697.360	10,748.827	297,328.631	308,774.818			1150
2048	11		3,729.141	1,028.462	278,603.601	283,361.204			1150
2048	12		8,848.544	13.230	302,952.454	311,814.228			1150
2049	1		12,919.883	0,000	307,085.198	320,005.082			1150
2049	2		13,892.625	0,000	283,196.007	297,088.632			1150
2049	3		11,168.856	66.183	277,279.659	288,514.698			1150
2049	4		6,231.922	551.939	275,568.691	282,352.552			1150
2049	5		1,982.545	3,887.103	279,600.625	285,470.272			1150
2049	6		277.248	20,909.689	297,787.823	318,974.760			1150
2049	7		3,441	48,286.173	304,856.131	353,145.745			1150
2049	8		0,000	50,723.930	300,660.840	351,384.770			1150
2049	9		12,325	35,953.158	316,855.492	352,820.975			1150
2049	10		686.015	10,768.641	297,410.315	308,864.971			1150
2049	11		3,671.702	1,031.266	278,882.940	283,585.908			1150
2049	12		8,720.385	13.279	303,492.179	312,225.842			1150
2050	1		12,737.737	0,000	307,778.485	320,516.222			1150
2050	2		13,696.931	0,000	283,822.742	297,519.673			1150
2050	3		11,011.663	66.440	277,904.005	288,982.108			1150

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Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2050	4		6,144.249	554.081	276,205.947	282,904.278			1150
2050	5		1,954.669	3,902.222	280,234.582	286,091.474			1150
2050	6		273.352	20,991.202	298,447.635	319,712.189			1150
2050	7		3.393	48,474.923	305,517.861	353,996.177			1150
2050	8		0.000	50,922.671	301,298.771	352,221.442			1150
2050	9		12.153	36,094.432	317,518.241	353,624.825			1150
2050	10		676.405	10,811.099	298,054.636	309,542.140			1150
2050	11		3,620.318	1,035.346	279,526.026	284,181.690			1150
2050	12		8,598.452	13.331	304,204.919	312,816.702			1150
2051	1		12,558.739	0.000	308,513.791	321,072.530			1150
2051	2		13,504.737	0.000	284,489.346	297,994.083			1150
2051	3		10,857.373	66.702	278,569.810	289,493.885			1150
2051	4		6,058.247	556.272	276,887.471	283,501.990			1150
2051	5		1,927.342	3,917.718	280,914.447	286,759.507			1150
2051	6		269.536	21,074.923	299,157.130	320,501.589			1150
2051	7		3.345	48,669.180	306,231.229	354,903.754			1150
2051	8		0.000	51,127.628	301,988.240	353,115.868			1150
2051	9		11.984	36,240.430	318,236.386	354,488.800			1150
2051	10		667.012	10,855.067	298,754.536	310,276.616			1150
2051	11		3,570.126	1,039.580	280,226.359	284,836.064			1150
2051	12		8,479.413	13.386	304,982.770	313,475.569			1150
2052	1		12,383.942	0.000	309,314.157	321,698.099			1150
2052	2		13,317.007	0.000	285,213.741	298,530.748			1150
2052	3		10,706.630	66.973	279,292.238	290,065.841			1150
2052	4		5,974.202	558.542	277,625.901	284,158.644			1150
2052	5		1,900.630	3,933.756	281,649.976	287,484.362			1150
2052	6		265.804	21,161.498	299,923.594	321,350.895			1150
2052	7		3.299	48,869.870	307,000.736	355,873.905			1150
2052	8		0.000	51,339.177	302,730.911	354,070.088			1150
2052	9		11.818	36,390.976	319,008.757	355,411.551			1150
2052	10		657.819	10,900.359	299,506.111	311,064.289			1150
2052	11		3,520.986	1,043.937	280,977.204	285,542.127			1150
2052	12		8,362.842	13.442	305,815.580	314,191.865			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Actual Energy	Heating	Cooling	Other	Total Energy	Add-factors	Add-factors	Add-factors
2053	1	12,212.691	0.000	310,168.525		322,381.216			1150
2053	2	13,132.999	0.000	285,985.292		299,118.290			1150
2053	3	10,558.812	67.251	280,060.103		290,686.166			1150
2053	4	5,891.749	560.862	278,409.162		284,861.773			1150
2053	5	1,874.412	3,950.121	282,428.513		288,253.046			1150
2053	6	262.139	21,249.696	300,733.197		322,245.032			1150
2053	7	3.254	49,074.008	307,811.877		356,889.138			1150
2053	8	0.000	51,554.032	303,512.177		355,066.209			1150
2053	9	11.656	36,543.625	319,819.506		356,374.787			1150
2053	10	648.775	10,946.210	300,293.310		311,888.295			1150
2053	11	3,472.616	1,048.340	281,761.882		286,282.839			1150
2053	12	8,248.045	13.499	306,684.236		314,945.780			1150
2054	1	12,044.049	0.000	311,059.042		323,103.092			1150
2054	2	12,951.794	0.000	286,789.410		299,741.203			1150
2054	3	10,413.245	67.531	280,860.317		291,341.093			1150
2054	4	5,810.552	563.202	279,225.399		285,599.154			1150
2054	5	1,848.592	3,966.635	283,239.767		289,054.994			1150
2054	6	258.530	21,338.697	301,576.772		323,173.999			1150
2054	7	3.209	49,280.004	308,656.982		357,940.195			1150
2054	8	0.000	51,770.847	304,326.112		356,096.959			1150
2054	9	11.495	36,697.668	320,664.087		357,373.251			1150
2054	10	639.868	10,992.480	301,113.275		312,745.623			1150
2054	11	3,424.982	1,052.784	282,579.146		287,056.911			1150
2054	12	8,134.993	13.557	307,588.887		315,737.436			1150

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
1998	1	22,180.821	0.000	320,429.528	342,610.349
1998	2	22,666.743	0.000	269,402.871	292,069.614
1998	3	18,668.603	0.000	279,772.700	298,441.303
1998	4	11,823.394	899.125	284,582.911	297,305.430
1998	5	2,695.963	4,022.921	291,875.698	298,594.582
1998	6	148.124	23,588.538	304,726.999	328,463.661
1998	7	52.682	51,903.957	309,755.234	361,711.873
1998	8	0.000	41,223.357	304,701.269	345,924.626
1998	9	0.000	35,694.009	323,755.184	359,449.193
1998	10	740.426	17,691.659	292,564.179	310,996.265
1998	11	6,576.732	1,127.920	282,246.504	289,951.156
1998	12	11,741.104	0.000	315,308.032	327,049.136
1999	1	29,323.267	0.000	304,095.269	333,418.536
1999	2	24,943.632	0.000	282,531.177	307,474.809
1999	3	23,316.499	0.000	280,434.479	303,750.978
1999	4	13,780.448	0.000	288,773.644	302,554.092
1999	5	3,301.657	2,249.512	327,967.401	333,518.570
1999	6	185.087	22,743.016	273,942.222	296,870.325
1999	7	0.000	54,318.779	321,602.871	375,921.650
1999	8	0.000	68,403.185	296,075.873	364,479.058
1999	9	8.521	26,667.528	323,401.614	350,077.663
1999	10	1,578.238	8,402.512	300,948.876	310,929.625
1999	11	6,211.962	215.104	285,892.064	292,319.130
1999	12	13,655.309	0.000	314,386.009	328,041.318
2000	1	24,725.047	0.000	318,564.757	343,289.804
2000	2	32,694.169	0.000	295,507.001	328,201.170
2000	3	15,699.421	0.000	288,136.490	303,835.911
2000	4	9,631.101	0.000	287,060.106	296,691.207
2000	5	3,411.141	7,096.642	303,570.625	314,078.407
2000	6	254.279	16,683.868	319,662.768	336,600.916
2000	7	9.413	36,288.699	321,430.314	357,728.426
2000	8	0.000	38,330.415	316,998.986	355,329.401
2000	9	28.180	32,909.612	341,551.991	374,489.783

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2000	10	1,510.223	7,595.996	314,493.884	323,600.104
2000	11	5,245.961	1,013.851	300,213.766	306,473.578
2000	12	23,504.099	0.000	332,457.845	355,961.944
2001	1	34,849.407	0.000	324,963.586	359,812.993
2001	2	26,197.475	0.000	298,235.438	324,432.913
2001	3	20,937.886	0.000	296,940.267	317,878.153
2001	4	13,954.280	1,403.816	299,284.394	314,642.490
2001	5	2,796.099	7,522.269	313,337.377	323,655.746
2001	6	301.632	12,562.519	316,557.539	329,421.690
2001	7	52.613	36,779.319	323,319.662	360,151.594
2001	8	0.000	55,405.095	332,963.237	388,368.332
2001	9	13.151	30,849.076	340,307.808	371,170.035
2001	10	1,564.313	4,203.227	313,348.536	319,116.077
2001	11	5,523.408	135.009	294,526.301	300,184.718
2001	12	9,269.014	0.000	319,103.165	328,372.179
2002	1	21,728.301	0.000	328,838.033	350,566.334
2002	2	18,560.664	0.000	297,488.757	316,049.421
2002	3	18,319.147	0.000	292,501.227	310,820.374
2002	4	13,934.758	2,613.066	302,835.214	319,383.038
2002	5	4,415.765	6,147.382	300,293.948	310,857.095
2002	6	1,651.513	15,002.990	324,445.405	341,099.909
2002	7	0.000	58,829.142	331,235.713	390,064.855
2002	8	0.000	65,244.452	323,368.779	388,613.231
2002	9	7.061	41,938.110	348,169.335	390,114.507
2002	10	1,501.223	16,315.951	318,935.540	336,752.714
2002	11	10,158.075	1,058.839	295,078.894	306,295.808
2002	12	20,408.712	0.000	329,313.370	349,722.082
2003	1	25,398.334	0.000	339,288.733	364,687.067
2003	2	32,839.800	0.000	312,385.745	345,225.545
2003	3	27,836.154	0.000	302,958.932	330,795.086
2003	4	11,349.099	72.407	298,360.367	309,781.873
2003	5	4,104.850	751.090	314,270.469	319,126.410
2003	6	484.405	4,186.832	317,368.746	322,039.984

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2003	7	5,018	34,221.819	334,460.200	368,687.037
2003	8	0.000	39,685.284	323,394.449	363,079.733
2003	9	1,004	35,031.983	357,359.439	392,392.427
2003	10	2,489.725	3,771.691	311,306.498	317,567.914
2003	11	6,877.459	171.768	294,854.862	301,904.088
2003	12	15,727.473	26.427	332,680.392	348,434.292
2004	1	23,098.246	0.000	341,646.151	364,744.397
2004	2	32,631.092	0.000	316,446.129	349,077.221
2004	3	20,838.152	0.000	306,360.866	327,199.018
2004	4	10,480.807	725.611	309,028.075	320,234.493
2004	5	3,149.496	8,091.493	315,675.304	326,916.292
2004	6	275.182	19,986.215	343,067.596	363,328.993
2004	7	0.000	31,307.750	343,602.233	374,909.983
2004	8	0.000	28,136.484	327,504.204	355,640.688
2004	9	0.000	25,058.479	353,687.982	378,746.461
2004	10	1,447.258	8,765.253	328,275.430	338,487.941
2004	11	4,903.991	558.770	308,627.412	314,090.173
2004	12	14,268.501	39.891	337,200.518	351,508.911
2005	1	25,246.154	0.000	338,171.934	363,418.088
2005	2	28,554.236	0.000	316,216.620	344,770.856
2005	3	22,782.763	0.000	312,996.909	335,779.672
2005	4	12,197.500	192.696	316,947.764	329,337.960
2005	5	5,045.437	2,256.568	312,453.740	319,755.745
2005	6	840.241	17,550.806	346,516.391	364,907.437
2005	7	0.000	56,538.708	352,642.929	409,181.637
2005	8	0.000	63,705.189	336,379.356	400,084.545
2005	9	0.000	39,005.153	360,785.059	399,790.212
2005	10	690.373	18,132.054	345,857.491	364,679.919
2005	11	6,085.156	1,468.173	308,514.253	316,067.582
2005	12	21,460.049	0.000	337,919.396	359,379.445
2006	1	22,153.913	0.000	352,126.178	374,280.091
2006	2	18,218.265	0.000	325,067.438	343,285.703
2006	3	20,364.748	0.000	312,999.808	333,364.556

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2006	4	11,477.561	200.444	303,967.759	315,645.764
2006	5	2,450.796	387.863	324,843.530	327,682.189
2006	6	945.601	17,426.486	345,723.357	364,095.445
2006	7	0.000	40,324.917	366,338.027	406,662.944
2006	8	0.000	60,313.205	338,761.317	399,074.522
2006	9	53.893	25,047.526	370,009.664	395,111.084
2006	10	1,861.790	2,311.182	334,478.413	338,651.385
2006	11	9,709.814	211.012	323,468.826	333,389.652
2006	12	14,236.972	0.000	345,648.526	359,885.498
2007	1	15,945.023	0.000	353,084.924	369,029.947
2007	2	28,949.363	0.000	339,722.716	368,672.079
2007	3	26,583.258	13.398	327,350.458	353,947.115
2007	4	10,002.085	844.389	330,004.989	340,851.463
2007	5	3,799.642	4,256.658	333,209.415	341,265.716
2007	6	259.036	29,961.599	358,046.785	388,267.420
2007	7	0.000	44,081.689	361,957.108	406,038.797
2007	8	0.000	52,355.718	357,434.563	409,790.281
2007	9	46.104	43,770.380	375,649.650	419,466.134
2007	10	464.298	21,501.491	354,019.305	375,985.093
2007	11	5,655.455	4,559.355	332,689.733	342,904.544
2007	12	17,824.147	0.000	352,591.940	370,416.087
2008	1	21,498.041	0.000	367,955.094	389,453.135
2008	2	25,730.165	0.000	344,991.671	370,721.836
2008	3	24,404.504	0.000	330,178.620	354,583.124
2008	4	12,870.649	49.905	320,047.835	332,968.389
2008	5	3,113.492	1,958.336	322,103.795	327,175.623
2008	6	717.380	19,343.717	346,534.972	366,596.069
2008	7	0.921	37,346.606	363,435.406	400,782.933
2008	8	0.000	46,983.608	343,949.048	390,932.656
2008	9	0.000	34,730.499	362,368.095	397,098.594
2008	10	807.095	9,389.821	346,194.521	356,391.437
2008	11	6,464.922	606.284	331,140.317	338,211.523
2008	12	19,222.009	0.000	345,795.642	365,017.651

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2009	1	24,327.053	0.000	370,211.781	394,538.834
2009	2	28,645.240	0.000	338,179.955	366,825.195
2009	3	17,228.675	0.000	315,356.699	332,585.374
2009	4	8,881.671	103.952	319,164.647	328,150.270
2009	5	3,416.641	5,187.106	315,622.851	324,226.598
2009	6	367.721	13,043.784	337,445.506	350,857.012
2009	7	0.000	36,811.669	349,758.659	386,570.328
2009	8	0.000	29,566.635	338,383.663	367,950.298
2009	9	0.000	21,239.765	357,959.643	379,199.408
2009	10	1,967.196	6,439.360	339,717.161	348,123.717
2009	11	5,363.252	0.000	315,321.164	320,684.416
2009	12	12,535.252	0.000	351,143.379	363,678.631
2010	1	23,468.641	0.000	367,457.539	390,926.180
2010	2	24,142.241	0.000	318,293.029	342,435.270
2010	3	18,404.785	0.000	322,466.913	340,871.698
2010	4	6,202.547	1,661.084	321,227.232	329,090.863
2010	5	1,457.339	3,854.885	313,277.589	318,589.813
2010	6	297.527	35,429.200	339,349.044	375,075.771
2010	7	0.000	63,689.089	335,787.719	399,476.808
2010	8	0.000	71,702.995	330,775.916	402,478.911
2010	9	0.000	43,802.119	352,119.887	395,922.006
2010	10	686.240	12,779.472	366,372.765	379,838.477
2010	11	5,302.777	1,143.529	271,202.765	277,649.071
2010	12	17,208.294	0.000	336,550.099	353,758.393
2011	1	24,927.248	0.000	353,681.760	378,609.008
2011	2	26,879.156	0.000	318,242.361	345,121.517
2011	3	18,320.683	0.000	320,020.301	338,340.984
2011	4	10,601.505	412.278	292,690.208	303,703.991
2011	5	3,269.300	3,362.381	318,871.257	325,502.938
2011	6	456.359	30,395.204	338,220.507	369,072.069
2011	7	0.000	56,179.950	330,149.299	386,329.249
2011	8	0.000	80,496.736	344,032.727	424,529.463
2011	9	69.719	37,825.432	341,706.587	379,601.738

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2011	10	837.125	5,084.863	320,243.698	326,165.686
2011	11	4,706.762	156.781	306,609.291	311,472.834
2011	12	11,130.305	0.000	345,327.518	356,457.823
2012	1	16,469.795	0.000	345,860.933	362,330.728
2012	2	18,822.600	0.000	310,679.890	329,502.490
2012	3	13,284.355	1,292.232	312,856.750	327,433.337
2012	4	3,515.378	4,173.352	318,294.816	325,983.546
2012	5	2,649.037	5,326.352	317,407.124	325,382.513
2012	6	88.158	30,203.469	334,803.931	365,095.558
2012	7	8.316	72,861.604	337,757.901	410,627.821
2012	8	0.000	63,422.704	330,977.171	394,399.875
2012	9	56.947	31,139.958	345,279.735	376,476.640
2012	10	1,895.856	4,599.936	317,053.815	323,549.607
2012	11	7,018.699	449.837	308,633.678	316,102.214
2012	12	11,868.275	0.000	324,321.664	336,189.939
2013	1	18,408.306	0.000	334,256.298	352,664.604
2013	2	21,175.540	0.000	318,153.212	339,328.752
2013	3	19,099.468	0.000	315,392.928	334,492.396
2013	4	13,071.909	0.000	307,736.020	320,807.929
2013	5	3,360.166	4,327.577	307,437.323	315,125.067
2013	6	344.397	22,984.837	328,173.362	351,502.596
2013	7	0.000	46,634.038	331,118.131	377,752.169
2013	8	0.000	36,775.501	327,846.454	364,621.955
2013	9	15.974	36,103.060	345,794.249	381,913.283
2013	10	541.917	13,208.271	330,765.205	344,515.393
2013	11	6,700.365	1,178.366	309,360.831	317,239.563
2013	12	16,723.655	0.000	333,228.609	349,952.264
2014	1	23,952.882	0.000	354,908.727	378,861.609
2014	2	29,441.248	0.000	320,309.863	349,751.111
2014	3	25,500.439	0.000	315,098.369	340,598.808
2014	4	13,167.476	0.000	303,241.802	316,409.278
2014	5	3,226.218	3,054.080	311,833.492	318,113.791
2014	6	653.953	23,487.889	325,993.901	350,135.743

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2014	7	0.000	43,943.376	324,676.630	368,620.006
2014	8	0.000	28,193.078	327,147.542	355,340.620
2014	9	41.935	35,236.720	343,579.517	378,858.172
2014	10	1,172.452	3,680.518	318,821.527	323,674.497
2014	11	7,127.275	70.620	306,928.423	314,126.318
2014	12	16,802.546	0.000	344,976.325	361,778.871
2015	1	20,909.804	0.000	344,962.426	365,872.230
2015	2	25,169.219	0.000	317,845.237	343,014.456
2015	3	26,097.096	0.000	314,666.878	340,763.974
2015	4	10,770.986	0.000	309,352.973	320,123.959
2015	5	2,845.153	6,003.316	302,495.858	311,344.327
2015	6	288.070	24,856.122	324,919.862	350,064.054
2015	7	2,051	32,495.911	330,476.732	362,974.694
2015	8	0.000	45,386.010	324,959.425	370,345.435
2015	9	0.000	35,490.023	342,858.541	378,348.564
2015	10	545.954	11,749.137	317,269.827	329,564.918
2015	11	3,522.138	309.716	302,011.290	305,843.144
2015	12	9,850.753	0.000	334,023.256	343,874.009
2016	1	14,948.201	0.000	330,551.379	345,499.580
2016	2	20,778.439	0.000	312,071.002	332,849.441
2016	3	14,208.750	0.000	303,820.693	318,029.443
2016	4	7,667.467	0.000	299,607.908	307,275.375
2016	5	3,092.801	360.784	297,707.837	301,161.423
2016	6	546.651	26,156.411	320,232.670	346,935.732
2016	7	0.000	43,897.413	331,486.990	375,384.403
2016	8	0.000	64,860.182	329,532.370	394,392.552
2016	9	0.000	48,768.142	345,782.444	394,550.586
2016	10	186.493	19,025.258	329,299.328	348,511.078
2016	11	3,059.995	3,199.781	301,291.498	307,551.274
2016	12	13,612.300	127.561	337,081.528	350,821.389
2017	1	20,190.139	0.000	341,767.465	361,957.604
2017	2	15,451.770	0.000	304,799.736	320,251.506
2017	3	11,814.346	0.000	297,434.641	309,248.987

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2017	4	8,335.687	813.944	295,661.477	304,811.108
2017	5	2,174.702	5,380.170	293,275.087	300,829.959
2017	6	426.197	20,574.808	315,726.679	336,727.684
2017	7	0.000	45,062.940	322,410.768	367,473.708
2017	8	0.000	42,095.471	325,744.929	367,840.400
2017	9	0.000	20,284.626	331,216.762	351,501.388
2017	10	100.148	21,322.352	322,246.568	343,669.068
2017	11	5,973.989	2,298.080	295,685.893	303,957.962
2017	12	12,686.101	0.000	331,550.563	344,236.664
2018	1	25,425.001	0.000	343,086.427	368,511.428
2018	2	21,256.013	0.000	307,381.023	328,637.036
2018	3	14,673.921	0.000	293,371.644	308,045.565
2018	4	12,960.046	82.966	302,605.577	315,648.589
2018	5	4,449.841	4,606.398	300,073.070	309,129.309
2018	6	47.000	36,567.549	321,104.365	357,718.914
2018	7	0.000	58,559.433	323,106.390	381,665.823
2018	8	0.000	49,121.331	323,024.831	372,146.162
2018	9	0.000	50,671.583	332,563.111	383,234.694
2018	10	979.363	25,241.498	313,586.727	339,807.588
2018	11	7,623.027	3,563.182	295,450.301	306,636.510
2018	12	15,137.187	0.000	331,791.522	346,928.709
2019	1	15,415.799	0.000	323,455.888	338,871.687
2019	2	21,983.507	0.000	305,707.105	327,690.612
2019	3	17,669.652	63.778	299,562.551	317,295.981
2019	4	9,856.805	531.755	298,182.843	308,571.402
2019	5	3,133.675	3,742.512	301,878.460	308,754.647
2019	6	437.850	20,114.521	320,635.525	341,187.895
2019	7	5.429	46,404.144	327,431.225	373,840.798
2019	8	0.000	48,685.201	322,086.135	370,771.336
2019	9	19.387	34,446.554	338,530.091	372,996.033
2019	10	1,077.240	10,300.210	318,009.801	329,387.251
2019	11	5,754.880	984.567	298,897.104	305,636.551
2019	12	13,646.482	12.657	325,035.271	338,694.410

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2020	1	20,332.578	0.000	328,166.476	348,499.054
2020	2	21,839.169	0.000	302,013.211	323,852.380
2020	3	17,538.098	63.117	295,685.074	313,286.289
2020	4	9,774.272	525.750	294,003.739	304,303.761
2020	5	3,105.666	3,698.145	297,596.803	304,400.614
2020	6	433.763	19,868.132	316,096.106	336,398.001
2020	7	5.377	45,821.064	322,819.464	368,645.905
2020	8	0.000	48,068.581	317,635.604	365,704.185
2020	9	19.205	34,022.422	334,022.484	368,064.110
2020	10	1,067.355	10,175.654	313,709.335	324,952.344
2020	11	5,704.322	973.045	294,727.889	301,405.256
2020	12	13,530.779	12.513	320,523.533	334,066.825
2021	1	20,182.621	0.000	323,791.277	343,973.898
2021	2	21,695.158	0.000	298,269.084	319,964.242
2021	3	17,436.381	62.574	292,166.548	309,665.503
2021	4	9,725.698	521.662	290,626.999	300,874.360
2021	5	3,092.758	3,672.389	294,448.386	301,213.533
2021	6	432.299	19,745.240	313,029.702	333,207.241
2021	7	5.362	45,571.046	319,942.707	365,519.116
2021	8	0.000	47,838.825	315,037.990	362,876.814
2021	9	19.179	33,880.738	331,491.544	365,391.460
2021	10	1,066.511	10,138.932	311,397.477	322,602.920
2021	11	5,702.638	970.015	292,552.779	299,225.433
2021	12	13,534.998	12.482	318,285.386	331,832.866
2022	1	20,257.347	0.000	322,099.776	342,357.122
2022	2	21,787.326	0.000	296,877.305	318,664.630
2022	3	17,518.619	62.531	290,897.266	308,478.416
2022	4	9,775.781	521.524	289,438.856	299,736.161
2022	5	3,109.853	3,672.792	293,360.535	300,143.179
2022	6	434.824	19,753.562	311,979.144	332,167.530
2022	7	5.395	45,601.092	318,952.759	364,559.246
2022	8	0.000	47,879.110	314,130.988	362,010.098
2022	9	19.302	33,914.939	330,595.058	364,529.299

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2022	10	1,073.512	10,150.509	310,562.360	321,786.381
2022	11	5,740.809	971.247	291,754.266	298,466.321
2022	12	13,623.756	12.496	317,369.529	331,005.781
2023	1	19,869.533	0.000	321,427.560	341,297.093
2023	2	21,367.113	0.000	296,237.410	317,604.523
2023	3	17,178.347	62.381	290,229.572	307,470.300
2023	4	9,584.873	520.220	288,732.822	298,837.915
2023	5	3,048.906	3,663.352	292,643.385	299,355.643
2023	6	426.293	19,702.380	311,230.047	331,358.719
2023	7	5.289	45,484.967	318,215.633	363,705.889
2023	8	0.000	47,762.003	313,447.041	361,209.044
2023	9	18.929	33,837.522	329,928.079	363,784.530
2023	10	1,052.993	10,129.414	309,966.258	321,148.665
2023	11	5,632.468	969.467	291,220.967	297,822.902
2023	12	13,368.869	12.475	316,824.841	330,206.186
2024	1	19,519.791	0.000	321,115.788	340,635.579
2024	2	20,994.619	0.000	295,997.783	316,992.401
2024	3	16,881.768	62.359	290,032.444	306,976.572
2024	4	9,420.831	520.114	288,568.827	298,509.772
2024	5	2,997.137	3,663.108	292,513.631	299,173.876
2024	6	419.101	19,703.211	311,122.416	331,244.727
2024	7	5.200	45,489.882	318,124.444	363,619.526
2024	8	0.000	47,768.742	313,367.316	361,136.058
2024	9	18.612	33,842.333	329,845.886	363,706.830
2024	10	1,035.306	10,130.620	309,881.258	321,047.184
2024	11	5,537.625	969.542	291,126.617	297,633.784
2024	12	13,141.985	12.474	316,685.645	329,840.104
2025	1	19,190.579	0.000	321,055.099	340,245.679
2025	2	20,637.069	0.000	295,903.128	316,540.198
2025	3	16,591.398	62.361	289,897.706	306,551.465
2025	4	9,257.220	520.046	288,390.730	298,167.996
2025	5	2,944.604	3,662.032	292,297.819	298,904.455
2025	6	411.692	19,694.409	310,860.631	330,966.732

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2025	7	5,108	45,463.328	317,829.016	363,297.452
2025	8	0,000	47,734.948	313,054.110	360,789.058
2025	9	18,276	33,814.809	329,495.911	363,328.996
2025	10	1,016.531	10,121.394	309,519.629	320,657.554
2025	11	5,436.710	968.571	290,746.120	297,151.400
2025	12	12,901.649	12,461	316,249.118	329,163.228
2026	1	18,842.384	0,000	319,763.116	338,605.500
2026	2	20,261.568	0,000	294,727.779	314,989.346
2026	3	16,288.859	62,318	288,722.577	305,073.754
2026	4	9,088.068	519.666	287,184.630	296,792.365
2026	5	2,890.690	3,659.218	291,092.739	297,642.648
2026	6	404.138	19,678.513	309,601.065	329,683.716
2026	7	5,014	45,424.921	316,561.732	361,991.667
2026	8	0,000	47,692.898	311,828.399	359,521.296
2026	9	17,939	33,783.555	328,217.732	362,019.225
2026	10	997.722	10,111.620	308,273.873	319,383.216
2026	11	5,335.917	967.600	289,500.930	295,804.446
2026	12	12,662.534	12,449	314,877.651	327,552.634
2027	1	18,500.784	0,000	318,556.987	337,057.771
2027	2	19,894.790	0,000	293,648.740	313,543.530
2027	3	15,994.452	62,291	287,659.101	303,715.845
2027	4	8,924.160	519.459	286,110.864	295,554.482
2027	5	2,838.689	3,657.929	290,039.010	296,535.627
2027	6	396.890	19,672.668	308,521.713	328,591.271
2027	7	4,924	45,414.357	315,499.569	360,918.850
2027	8	0,000	47,685.217	310,825.122	358,510.339
2027	9	17,621	33,780.793	327,199.543	360,997.956
2027	10	980.123	10,111.657	307,309.470	318,401.250
2027	11	5,242.246	967.687	288,563.848	294,773.781
2027	12	12,441.272	12,451	313,865.680	326,319.403
2028	1	18,173.729	0,000	317,719.972	335,893.702
2028	2	19,544.772	0,000	292,915.595	312,460.367
2028	3	15,714.352	62,346	286,951.246	302,727.944

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2028	4	8,768.437	519.951	285,405.102	294,693.490
2028	5	2,789.313	3,661.607	289,352.432	295,803.351
2028	6	390.005	19,693.359	307,820.835	327,904.198
2028	7	4.839	45,463.539	314,807.164	360,275.542
2028	8	0.000	47,737.673	310,164.086	357,901.759
2028	9	17.316	33,818.157	326,517.368	360,352.841
2028	10	963.166	10,122.782	306,648.427	317,734.375
2028	11	5,151.460	968.734	287,903.588	294,023.783
2028	12	12,225.655	12.464	313,134.290	325,372.409
2029	1	17,870.284	0.000	317,131.082	335,001.366
2029	2	19,218.013	0.000	292,380.352	311,598.364
2029	3	15,451.179	62.436	286,413.513	301,927.128
2029	4	8,621.434	520.692	284,853.107	293,995.232
2029	5	2,742.492	3,666.742	288,799.967	295,209.200
2029	6	383.448	19,720.478	307,241.601	327,345.527
2029	7	4.758	45,525.386	314,224.541	359,754.685
2029	8	0.000	47,801.683	309,599.913	357,401.596
2029	9	17.024	33,863.109	325,931.092	359,811.225
2029	10	946.917	10,136.110	306,078.527	317,161.554
2029	11	5,064.524	970.004	287,336.466	293,370.994
2029	12	12,018.977	12.480	312,501.307	324,532.764
2030	1	17,565.675	0.000	315,583.270	333,148.945
2030	2	18,889.910	0.000	290,980.661	309,870.571
2030	3	15,187.045	62.499	285,020.017	300,269.562
2030	4	8,473.860	521.211	283,428.386	292,423.457
2030	5	2,695.484	3,670.310	287,381.369	293,747.164
2030	6	376.871	19,739.403	305,766.805	325,883.079
2030	7	4.676	45,568.176	312,746.722	358,319.574
2030	8	0.000	47,846.038	308,177.706	356,023.745
2030	9	16.731	33,894.060	324,456.922	358,367.713
2030	10	930.622	10,145.269	304,650.614	315,726.505
2030	11	4,977.316	970.870	285,916.555	291,864.742
2030	12	11,812.086	12.491	310,937.120	322,761.698

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2031	1	17,255.163	0.000	314,257.691	331,512.854
2031	2	18,556.242	0.000	289,790.647	308,346.888
2031	3	14,918.978	62.585	283,842.724	298,824.287
2031	4	8,324.398	521.929	282,232.362	291,078.689
2031	5	2,647.977	3,675.420	286,198.334	292,521.731
2031	6	370.232	19,767.060	304,541.809	324,679.102
2031	7	4.594	45,632.459	311,525.530	357,162.583
2031	8	0.000	47,914.024	307,007.153	354,921.177
2031	9	16.437	33,942.404	323,247.668	357,206.509
2031	10	914.255	10,159.779	303,482.172	314,556.206
2031	11	4,889.814	972.266	284,758.428	290,620.508
2031	12	11,604.251	12.509	309,656.245	321,273.005
2032	1	16,956.049	0.000	313,222.319	330,178.368
2032	2	18,234.459	0.000	288,857.226	307,091.686
2032	3	14,660.238	62.696	282,916.406	297,639.340
2032	4	8,179.951	522.856	281,286.687	289,989.494
2032	5	2,602.017	3,681.929	285,259.406	291,543.351
2032	6	363.804	19,801.938	303,566.319	323,732.060
2032	7	4.514	45,712.863	310,550.630	356,268.007
2032	8	0.000	47,998.288	306,070.013	354,068.302
2032	9	16.151	34,002.228	322,279.421	356,297.801
2032	10	898.382	10,177.716	302,546.572	313,622.669
2032	11	4,804.931	973.985	283,830.319	289,609.234
2032	12	11,403.044	12.531	308,638.051	320,053.627
2033	1	16,675.155	0.000	312,335.152	329,010.308
2033	2	17,932.752	0.000	288,063.364	305,996.116
2033	3	14,417.877	62.837	282,132.304	296,613.018
2033	4	8,044.917	524.043	280,493.712	289,062.671
2033	5	2,559.116	3,690.364	284,477.668	290,727.148
2033	6	357.813	19,847.727	302,760.521	322,966.061
2033	7	4.440	45,819.322	309,749.749	355,573.510
2033	8	0.000	48,110.707	305,303.831	353,414.537
2033	9	15.886	34,082.133	321,488.917	355,586.937

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2033	10	883.628	10,201.707	301,783.812	312,869.146
2033	11	4,726.037	976.284	283,074.037	288,776.359
2033	12	11,215.580	12.561	307,798.861	319,027.002
2034	1	16,400.438	0.000	311,645.425	328,045.863
2034	2	17,636.817	0.000	287,436.001	305,072.818
2034	3	14,179.607	63.006	281,504.593	295,747.205
2034	4	7,911.737	525.433	279,847.607	288,284.777
2034	5	2,516.680	3,700.049	283,830.394	290,047.123
2034	6	351.870	19,899.264	302,082.486	322,333.620
2034	7	4.366	45,937.218	309,066.917	355,008.500
2034	8	0.000	48,233.190	304,641.760	352,874.950
2034	9	15.621	34,167.997	320,797.933	354,981.551
2034	10	868.862	10,227.151	301,109.866	312,205.880
2034	11	4,646.929	978.690	282,398.325	288,023.945
2034	12	11,027.948	12.592	307,056.180	318,096.720
2035	1	16,135.027	0.000	311,058.641	327,193.668
2035	2	17,351.732	0.000	286,912.256	304,263.988
2035	3	13,950.627	63.187	280,988.752	295,002.566
2035	4	7,784.089	526.954	279,325.635	287,636.678
2035	5	2,476.106	3,710.807	283,315.492	289,502.406
2035	6	346.199	19,957.222	301,549.563	321,852.984
2035	7	4.295	46,071.080	308,534.984	354,610.359
2035	8	0.000	48,373.821	304,131.226	352,505.047
2035	9	15.369	34,267.462	320,268.883	354,551.715
2035	10	854.849	10,256.824	300,596.072	311,707.744
2035	11	4,571.945	981.522	281,886.464	287,439.931
2035	12	10,849.843	12.628	306,488.202	317,350.673
2036	1	15,875.082	0.000	310,592.863	326,467.945
2036	2	17,072.119	0.000	286,492.106	303,564.225
2036	3	13,725.721	63.388	280,570.360	294,359.468
2036	4	7,658.499	528.621	278,896.512	287,083.632
2036	5	2,436.120	3,722.492	282,886.470	289,045.081
2036	6	340.604	20,019.816	301,101.615	321,462.035

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2036	7	4,226	46,214.944	308,084.324	354,303.493
2036	8	0,000	48,524.409	303,696.187	352,220.596
2036	9	15,120	34,373.853	319,817.031	354,206.004
2036	10	841,002	10,288.607	300,157.801	311,287.411
2036	11	4,497.865	984.558	281,450.216	286,932.639
2036	12	10,673.855	12,667	306,002.816	316,689.338
2037	1	15,622.725	0,000	310,206.685	325,829.410
2037	2	16,800.367	0,000	286,139.511	302,939.878
2037	3	13,506.975	63,602	280,216.246	293,786.823
2037	4	7,536.346	530.395	278,532.777	286,599.518
2037	5	2,397.243	3,734.947	282,523.773	288,655.964
2037	6	335.166	20,086.653	300,723.608	321,145.427
2037	7	4,158	46,368.932	307,705.236	354,078.327
2037	8	0,000	48,685.734	303,330.410	352,016.144
2037	9	14,879	34,487.991	319,437.796	353,940.665
2037	10	827.557	10,322.727	299,790.141	310,940.425
2037	11	4,425.947	987.822	281,084.915	286,498.684
2037	12	10,503.156	12,709	305,599.250	316,115.115
2038	1	15,369.016	0,000	309,941.353	325,310.369
2038	2	16,527.544	0,000	285,900.826	302,428.370
2038	3	13,287.678	63,830	279,980.269	293,331.776
2038	4	7,414.003	532.299	278,292.905	286,239.207
2038	5	2,358.323	3,748.352	282,285.485	288,392.160
2038	6	329.725	20,158.784	300,476.912	320,965.421
2038	7	4,091	46,535.429	307,458.778	353,998.298
2038	8	0,000	48,860.476	303,093.359	351,953.835
2038	9	14,637	34,611.639	319,191.726	353,818.002
2038	10	814.116	10,359.712	299,551.648	310,725.476
2038	11	4,354.033	991.354	280,846.635	286,192.022
2038	12	10,332.566	12,754	305,338.172	315,683.493
2039	1	15,123.998	0,000	309,785.216	324,909.214
2039	2	16,264.218	0,000	285,762.558	302,026.776
2039	3	13,076.083	64,075	279,845.077	292,985.235

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2039	4	7,296.033	534.348	278,158.120	285,988.501
2039	5	2,320.830	3,762.827	282,154.948	288,238.605
2039	6	324.488	20,236.928	300,344.979	320,906.395
2039	7	4.026	46,716.489	307,330.393	354,050.908
2039	8	0.000	49,051.389	302,973.799	352,025.188
2039	9	14.405	34,747.463	319,072.053	353,833.921
2039	10	801.234	10,400.516	299,439.216	310,640.967
2039	11	4,285.218	995.277	280,739.086	286,019.580
2039	12	10,169.794	12.806	305,232.679	315,415.278
2040	1	14,881.681	0.000	309,055.955	323,937.636
2040	2	16,004.788	0.000	285,122.567	301,127.355
2040	3	12,868.400	64.313	279,225.983	292,158.696
2040	4	7,180.578	536.367	277,541.168	285,258.113
2040	5	2,284.233	3,777.260	281,555.977	287,617.470
2040	6	319.386	20,315.528	299,735.102	320,370.016
2040	7	3.963	46,900.091	306,732.133	353,636.187
2040	8	0.000	49,246.172	302,408.430	351,654.602
2040	9	14.181	34,886.961	318,497.579	353,398.720
2040	10	788.772	10,442.688	298,892.797	310,124.257
2040	11	4,218.728	999.351	280,205.366	285,423.445
2040	12	10,011.523	12.857	304,632.313	314,656.693
2041	1	14,662.101	0.000	308,705.196	323,367.297
2041	2	15,767.531	0.000	284,790.887	300,558.418
2041	3	12,676.754	64.576	278,881.273	291,622.603
2041	4	7,073.185	538.531	277,175.289	284,787.004
2041	5	2,249.926	3,792.256	281,178.527	287,220.709
2041	6	314.571	20,394.978	299,329.599	320,039.148
2041	7	3.903	47,080.786	306,313.459	353,398.148
2041	8	0.000	49,433.187	301,993.828	351,427.015
2041	9	13.964	35,017.307	318,054.478	353,085.749
2041	10	776.703	10,481.141	298,452.141	309,709.985
2041	11	4,153.945	1,002.975	279,755.424	284,912.343
2041	12	9,857.476	12.904	304,128.449	313,998.828

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2042	1	14,441.797	0.000	308,369.530	322,811.327
2042	2	15,530.236	0.000	284,483.174	300,013.411
2042	3	12,485.643	64.821	278,570.089	291,120.553
2042	4	6,966.362	540.559	276,852.120	284,359.042
2042	5	2,215.892	3,806.445	280,852.405	286,874.743
2042	6	309.803	20,470.685	298,984.348	319,764.837
2042	7	3.844	47,254.071	305,961.253	353,219.168
2042	8	0.000	49,613.520	301,648.205	351,261.725
2042	9	13.751	35,143.889	317,689.326	352,846.966
2042	10	764.829	10,518.644	298,090.780	309,374.253
2042	11	4,090.286	1,006.525	279,388.161	284,484.972
2042	12	9,705.938	12.949	303,711.444	313,430.331
2043	1	14,218.926	0.000	308,171.416	322,390.342
2043	2	15,289.814	0.000	284,293.656	299,583.470
2043	3	12,291.784	65.055	278,371.705	290,728.544
2043	4	6,857.889	542.483	276,639.703	284,040.075
2043	5	2,181.278	3,819.800	280,630.182	286,631.260
2043	6	304.950	20,541.601	298,743.483	319,590.034
2043	7	3.783	47,415.776	305,710.785	353,130.345
2043	8	0.000	49,781.079	301,397.574	351,178.653
2043	9	13.534	35,261.070	317,420.134	352,694.738
2043	10	752.719	10,553.270	297,820.924	309,126.913
2043	11	4,025.347	1,009.794	279,110.542	284,145.683
2043	12	9,551.976	12.991	303,408.812	312,973.779
2044	1	14,000.105	0.000	308,020.488	322,020.593
2044	2	15,055.047	0.000	284,165.869	299,220.916
2044	3	12,103.484	65.287	278,253.023	290,421.794
2044	4	6,752.994	544.426	276,524.333	283,821.753
2044	5	2,147.976	3,833.595	280,522.357	286,503.927
2044	6	300.302	20,616.271	298,637.197	319,553.770
2044	7	3.726	47,589.086	305,609.336	353,202.148
2044	8	0.000	49,964.133	301,305.112	351,269.245
2044	9	13.329	35,391.428	317,329.124	352,733.881

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2044	10	741.305	10,592.490	297,737.311	309,071.106
2044	11	3,964.378	1,013.565	279,031.601	284,009.544
2044	12	9,407.102	13.039	303,316.579	312,736.720
2045	1	13,785.735	0.000	308,093.254	321,878.988
2045	2	14,824.018	0.000	284,223.631	299,047.649
2045	3	11,917.311	65.535	278,302.052	290,284.897
2045	4	6,648.971	546.483	276,569.118	283,764.572
2045	5	2,114.831	3,847.969	280,560.575	286,523.376
2045	6	295.661	20,693.083	298,671.247	319,659.991
2045	7	3.668	47,765.348	305,638.198	353,407.214
2045	8	0.000	50,148.205	301,328.386	351,476.592
2045	9	13.122	35,521.009	317,347.900	352,882.030
2045	10	729.786	10,631.043	297,750.589	309,111.419
2045	11	3,902.714	1,017.238	279,041.126	283,961.078
2045	12	9,260.667	13.086	303,324.115	312,597.868
2046	1	13,578.502	0.000	308,255.558	321,834.061
2046	2	14,601.043	0.000	284,367.628	298,968.671
2046	3	11,738.006	65.784	278,443.879	290,247.669
2046	4	6,548.862	548.554	276,711.087	283,808.502
2046	5	2,082.972	3,862.519	280,699.449	286,644.939
2046	6	291.203	20,771.057	298,812.252	319,874.512
2046	7	3.613	47,944.786	305,776.324	353,724.723
2046	8	0.000	50,335.856	301,457.721	351,793.578
2046	9	12.924	35,653.431	317,478.394	353,144.749
2046	10	718.741	10,670.482	297,872.654	309,261.877
2046	11	3,843.564	1,020.990	279,157.427	284,021.981
2046	12	9,120.151	13.134	303,447.937	312,581.221
2047	1	13,376.332	0.000	308,577.994	321,954.326
2047	2	14,383.350	0.000	284,653.118	299,036.468
2047	3	11,562.727	66.034	278,721.728	290,350.490
2047	4	6,450.933	550.631	276,989.186	283,990.751
2047	5	2,051.776	3,877.057	280,969.920	286,898.753
2047	6	286.836	20,848.795	299,087.776	320,223.407

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2047	7	3,558	48,123.197	306,046.451	354,173.206
2047	8	0,000	50,522.121	301,712.466	352,234.587
2047	9	12,729	35,784.575	317,736.651	353,533.955
2047	10	707,902	10,709.512	298,117.723	309,535.138
2047	11	3,785,519	1,024.702	279,395.808	284,206.030
2047	12	8,982.380	13,182	303,709.667	312,705.229
2048	1	13,177.531	0,000	308,988.125	322,165.656
2048	2	14,169.575	0,000	285,022.116	299,191.691
2048	3	11,390.874	66,279	279,087.677	290,544.830
2048	4	6,355.009	552.665	277,360.200	284,267.873
2048	5	2,021.256	3,891.355	281,336.701	287,249.312
2048	6	282,568	20,925.587	299,467.077	320,675.231
2048	7	3,505	48,300.310	306,424.572	354,728.387
2048	8	0,000	50,707.824	302,074.525	352,782.349
2048	9	12,539	35,915.989	318,110.251	354,038.780
2048	10	697,360	10,748.827	298,478.631	309,924.818
2048	11	3,729.141	1,028.462	279,753.601	284,511.204
2048	12	8,848.544	13,230	304,102.454	312,964.228
2049	1	12,919.883	0,000	308,235.198	321,155.082
2049	2	13,892.625	0,000	284,346.007	298,238.632
2049	3	11,168.856	66,183	278,429.659	289,664.698
2049	4	6,231.922	551.939	276,718.691	283,502.552
2049	5	1,982.545	3,887.103	280,750.625	286,620.272
2049	6	277,248	20,909.689	298,937.823	320,124.760
2049	7	3,441	48,286.173	306,006.131	354,295.745
2049	8	0,000	50,723.930	301,810.840	352,534.770
2049	9	12,325	35,953.158	318,005.492	353,970.975
2049	10	686,015	10,768.641	298,560.315	310,014.971
2049	11	3,671.702	1,031.266	280,032.940	284,735.908
2049	12	8,720.385	13,279	304,642.179	313,375.842
2050	1	12,737.737	0,000	308,928.485	321,666.222
2050	2	13,696.931	0,000	284,972.742	298,669.673
2050	3	11,011.663	66,440	279,054.005	290,132.108

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2050	4	6,144.249	554.081	277,355.947	284,054.278
2050	5	1,954.669	3,902.222	281,384.582	287,241.474
2050	6	273.352	20,991.202	299,597.635	320,862.189
2050	7	3.393	48,474.923	306,667.861	355,146.177
2050	8	0.000	50,922.671	302,448.771	353,371.442
2050	9	12.153	36,094.432	318,668.241	354,774.825
2050	10	676.405	10,811.099	299,204.636	310,692.140
2050	11	3,620.318	1,035.346	280,676.026	285,331.690
2050	12	8,598.452	13.331	305,354.919	313,966.702
2051	1	12,558.739	0.000	309,663.791	322,222.530
2051	2	13,504.737	0.000	285,639.346	299,144.083
2051	3	10,857.373	66.702	279,719.810	290,643.885
2051	4	6,058.247	556.272	278,037.471	284,651.990
2051	5	1,927.342	3,917.718	282,064.447	287,909.507
2051	6	269.536	21,074.923	300,307.130	321,651.589
2051	7	3.345	48,669.180	307,381.229	356,053.754
2051	8	0.000	51,127.628	303,138.240	354,265.868
2051	9	11.984	36,240.430	319,386.386	355,638.800
2051	10	667.012	10,855.067	299,904.536	311,426.616
2051	11	3,570.126	1,039.580	281,376.359	285,986.064
2051	12	8,479.413	13.386	306,132.770	314,625.569
2052	1	12,383.942	0.000	310,464.157	322,848.099
2052	2	13,317.007	0.000	286,363.741	299,680.748
2052	3	10,706.630	66.973	280,442.238	291,215.841
2052	4	5,974.202	558.542	278,775.901	285,308.644
2052	5	1,900.630	3,933.756	282,799.976	288,634.362
2052	6	265.804	21,161.498	301,073.594	322,500.895
2052	7	3.299	48,869.870	308,150.736	357,023.905
2052	8	0.000	51,339.177	303,880.911	355,220.088
2052	9	11.818	36,390.976	320,158.757	356,561.551
2052	10	657.819	10,900.359	300,656.111	312,214.289
2052	11	3,520.986	1,043.937	282,127.204	286,692.127
2052	12	8,362.842	13.442	306,965.580	315,341.865

Indiana Michigan Power Company - Indiana
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy
2053	1	12,212.691	0.000	311,318.525	323,531.216
2053	2	13,132.999	0.000	287,135.292	300,268.290
2053	3	10,558.812	67.251	281,210.103	291,836.166
2053	4	5,891.749	560.862	279,559.162	286,011.773
2053	5	1,874.412	3,950.121	283,578.513	289,403.046
2053	6	262.139	21,249.696	301,883.197	323,395.032
2053	7	3.254	49,074.008	308,961.877	358,039.138
2053	8	0.000	51,554.032	304,662.177	356,216.209
2053	9	11.656	36,543.625	320,969.506	357,524.787
2053	10	648.775	10,946.210	301,443.310	313,038.295
2053	11	3,472.616	1,048.340	282,911.882	287,432.839
2053	12	8,248.045	13.499	307,834.236	316,095.780
2054	1	12,044.049	0.000	312,209.042	324,253.092
2054	2	12,951.794	0.000	287,939.410	300,891.203
2054	3	10,413.245	67.531	282,010.317	292,491.093
2054	4	5,810.552	563.202	280,375.399	286,749.154
2054	5	1,848.592	3,966.635	284,389.767	290,204.994
2054	6	258.530	21,338.697	302,726.772	324,323.999
2054	7	3.209	49,280.004	309,806.982	359,090.195
2054	8	0.000	51,770.847	305,476.112	357,246.959
2054	9	11.495	36,697.668	321,814.087	358,523.251
2054	10	639.868	10,992.480	302,263.275	313,895.623
2054	11	3,424.982	1,052.784	283,729.146	288,206.911
2054	12	8,134.993	13.557	308,738.887	316,887.436

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	
2005	7	73,945.57	0.00	20,972.04	66,734.62	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	8	76,812.97	0.00	22,174.20	66,070.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	76,297.48	0.00	14,638.11	70,035.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	10	63,956.93	406.58	7,003.67	66,046.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2005	11	55,991.55	2,697.31	586.94	65,080.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2005	12	64,231.04	9,187.53	0.00	70,743.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	1	67,056.86	9,647.12	0.00	74,299.79	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	2	60,240.91	8,136.68	0.00	67,299.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	3	58,364.80	9,118.63	0.00	64,810.48	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	4	55,903.70	5,287.85	84.69	65,396.06	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	5	56,515.80	1,262.59	153.05	66,841.79	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	6	64,070.35	650.26	5,942.58	69,268.60	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	7	72,516.58	0.00	12,652.54	69,498.66	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	8	75,592.76	0.00	20,866.65	66,714.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	9	71,147.64	26.58	8,935.63	67,511.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	10	60,922.50	935.37	1,017.62	66,352.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2006	11	58,349.41	4,255.19	39.09	65,410.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2006	12	64,276.49	6,176.87	0.00	71,370.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	1	67,281.39	7,069.62	0.00	74,937.86	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	2	66,137.29	12,390.72	0.00	68,008.46	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	3	62,649.61	11,157.43	23.63	64,651.98	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	4	60,947.70	4,460.90	623.30	68,718.07	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	5	60,260.59	1,740.70	1,532.79	66,431.25	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	6	70,260.60	106.65	9,716.37	68,533.37	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	7	77,911.67	0.00	16,558.12	68,622.16	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	8	78,899.67	0.00	17,617.89	63,218.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	9	81,035.07	22.43	15,140.11	71,283.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	10	68,307.77	229.42	8,024.04	64,155.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
2007	11	62,630.76	2,500.40	1,641.15	65,731.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00
2007	12	69,745.23	7,751.27	0.00	73,070.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2008	1	73,007.22	9,402.22	0.00	74,326.62	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2008	2	68,364.21	11,601.92	0.00	66,132.16	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2008	3	65,473.30	10,615.15	0.00	64,925.01	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2008	4	62,608.78	5,923.24	15.26	66,219.66	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	5	60,400.80	1,766.69	387.33	64,567.96	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	6	67,853.81	515.91	6,227.48	67,310.41	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	7	75,461.54	0.20	12,816.11	66,855.15	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	8	79,555.53	0.00	16,013.99	64,708.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	9	77,706.84	0.00	10,207.22	65,325.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
2008	10	67,377.47	388.63	3,123.33	63,157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
2008	11	63,454.35	2,962.72	338.90	63,051.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00
2008	12	68,838.98	8,542.54	0.00	66,179.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2009	1	74,462.76	10,884.52	0.00	69,239.54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	2	68,553.69	12,358.57	0.00	61,718.55	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	3	63,917.87	7,888.43	0.00	59,756.53	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	4	61,742.29	4,353.18	28.51	61,696.55	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	5	61,244.27	1,660.76	883.05	60,828.67	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	6	64,829.25	251.27	3,636.10	61,541.84	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	7	72,155.02	0.18	10,813.44	60,928.40	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	8	73,187.40	0.00	10,547.02	58,462.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00
2009	9	73,067.94	0.00	7,334.56	62,119.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
2009	10	64,546.86	1,052.36	1,668.19	60,004.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
2009	11	62,275.67	2,494.87	0.00	60,136.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00
2009	12	68,496.22	5,874.89	0.00	66,061.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	1	72,218.79	10,172.19	0.00	67,098.54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	2	67,006.06	10,321.90	0.00	61,607.13	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	3	62,881.01	8,108.18	0.00	59,397.83	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	4	60,935.72	3,033.49	819.72	62,951.63	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	5	58,830.83	1,130.78	868.36	60,977.56	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	6	69,493.83	242.50	8,652.86	63,390.85	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	7	77,777.46	0.00	17,374.99	63,351.76	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	8	82,799.26	0.00	22,967.20	62,070.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00
2010	9	76,109.55	0.00	15,325.89	63,248.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
2010	10	64,720.59	448.02	3,592.73	61,275.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
2010	11	59,205.18	2,369.81	347.95	60,461.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00
2010	12	65,693.36	7,218.34	0.00	67,630.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2011	1	71,333.54	10,288.73	0.00	66,410.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	2	61,712.91	11,239.69	0.00	60,002.01	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	3	65,102.35	8,027.75	0.00	58,430.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	4	58,548.69	5,008.54	233.64	58,660.98	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	5	60,106.94	1,781.06	1,169.17	61,474.93	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	6	67,813.01	234.42	8,643.44	62,018.03	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	7	77,276.59	0.00	16,143.63	63,165.35	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	8	81,753.55	0.00	24,228.04	58,828.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2011	9	74,858.46	40.29	12,235.96	60,743.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2011	10	63,849.09	469.50	1,977.09	59,033.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2011	11	60,418.91	2,085.14	326.51	58,590.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2011	12	63,432.16	4,796.70	0.00	62,224.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	1	68,729.93	6,967.31	0.00	62,837.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	2	62,834.83	7,915.80	0.00	57,309.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	3	62,129.09	5,614.80	735.78	57,164.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	4	60,220.76	1,640.66	2,216.00	58,460.81	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	5	60,488.27	1,358.96	1,511.96	57,865.33	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	6	70,242.31	89.88	9,579.53	59,247.89	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	7	88,033.90	8.01	24,229.91	59,898.26	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	8	80,772.40	0.00	21,405.57	56,369.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2012	9	75,207.90	15.50	11,024.72	59,071.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2012	10	62,515.82	756.86	1,833.29	57,031.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2012	11	60,847.43	3,006.78	426.72	57,113.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2012	12	65,161.03	4,649.70	0.00	61,499.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	1	68,216.51	7,363.69	0.00	62,510.88	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	2	63,998.95	8,741.87	0.00	55,872.77	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	3	63,183.75	7,905.51	0.00	56,022.67	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	4	62,619.44	5,714.79	0.00	58,314.50	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	5	61,513.73	1,643.70	1,587.60	56,085.81	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	6	66,747.58	313.98	6,563.36	58,755.82	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	7	75,968.76	4.52	14,481.39	58,521.25	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	8	74,176.97	0.00	11,800.00	56,136.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	9	78,603.01	0.50	13,324.47	58,086.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2013	10	66,412.95	221.47	5,003.18	56,268.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	11	61,967.58	2,682.64	451.16	56,893.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2013	12	67,923.76	6,888.07	0.00	60,784.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	1	72,933.72	10,130.29	0.00	63,056.67	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	2	66,759.48	11,869.65	0.00	55,160.57	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	3	66,097.60	10,303.45	0.00	55,622.66	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	4	61,165.28	5,563.90	42.23	55,881.01	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	5	61,052.46	1,512.93	1,230.58	57,940.20	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	6	66,408.59	345.47	7,936.40	57,502.32	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	7	72,078.90	0.00	13,575.13	58,021.74	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	8	70,682.06	0.00	10,178.89	55,255.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	9	76,399.58	33.08	13,921.51	57,816.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2014	10	62,083.85	479.03	2,104.76	55,834.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	11	60,339.62	2,826.23	55.29	55,661.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2014	12	68,675.30	6,914.67	0.00	60,794.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	1	72,656.61	8,324.85	0.00	62,057.15	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	2	66,248.38	10,051.51	0.00	55,196.80	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	3	65,753.86	10,469.43	0.00	55,032.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	4	61,657.38	4,329.56	17.27	57,391.66	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	5	60,062.69	1,319.00	1,606.16	55,758.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	6	67,014.21	218.38	7,168.35	57,456.76	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	7	71,181.12	2.01	9,989.08	57,682.13	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	8	78,003.32	0.00	16,027.48	55,677.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	9	76,521.97	2.18	12,140.82	57,280.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2015	10	65,977.68	335.02	3,585.47	55,701.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	11	60,029.93	1,667.18	84.56	54,965.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2015	12	66,018.87	4,347.74	0.00	61,202.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	1	69,030.56	6,772.38	0.00	62,441.35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	2	65,037.15	9,166.24	0.00	55,747.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	3	61,573.89	6,620.61	0.00	55,007.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	4	60,555.87	3,731.10	7.58	57,450.46	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	5	58,721.36	1,660.44	306.62	55,719.40	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	6	69,552.81	331.16	7,386.48	57,808.31	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2016	7	78,849.07	0.00	13,116.55	57,702.56	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	8	82,978.27	0.00	19,338.99	55,385.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2016	9	79,295.02	0.00	14,905.89	56,917.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2016	10	69,257.38	140.37	5,229.41	56,261.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2016	11	61,629.37	1,545.03	502.33	55,760.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2016	12	67,014.01	5,818.29	6.52	60,300.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	1	72,128.30	9,033.51	0.00	62,058.92	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	2	63,868.42	7,264.17	0.00	55,400.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	3	60,858.13	5,481.80	0.00	54,970.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	4	59,763.42	4,200.05	135.17	55,639.72	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	5	58,476.38	1,338.53	1,157.07	54,996.04	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	6	68,092.76	299.80	5,450.58	57,946.73	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	7	76,614.85	0.00	12,246.84	57,141.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	8	78,076.86	0.00	12,063.36	55,536.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2017	9	74,528.60	0.00	6,142.56	57,620.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2017	10	69,280.94	66.22	7,034.40	55,653.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2017	11	60,989.18	2,830.33	402.53	55,237.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2017	12	67,007.84	5,878.87	0.00	60,240.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	1	73,011.47	10,782.63	0.00	61,817.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	2	64,873.75	9,463.53	0.00	54,668.65	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	3	62,145.66	7,116.98	0.00	54,764.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	4	62,731.16	6,072.06	0.00	56,776.99	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	5	61,526.49	2,494.85	1,134.17	55,216.85	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	6	71,186.28	53.42	8,314.38	57,481.67	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	7	77,786.78	0.00	15,284.52	57,075.68	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	8	78,165.04	0.00	15,030.92	54,967.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2018	9	77,319.41	0.00	14,398.76	56,930.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2018	10	64,550.40	538.98	5,751.36	54,266.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2018	11	58,414.89	3,810.51	621.22	54,972.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2018	12	67,478.54	7,129.83	0.00	60,850.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	1	66,107.68	7,221.74	0.00	61,626.55	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	2		9,163.72	0.00	55,353.96	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	3		7,525.77	39.61	54,650.03	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2019	4		4,385.75	250.57	56,143.20	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	5		1,549.51	1,266.54	55,436.60	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	6		281.56	6,053.17	57,314.17	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	7		8.60	14,490.78	57,084.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	8		0.00	15,916.52	54,802.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2019	9		10.88	11,711.96	56,948.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2019	10		512.24	3,477.01	54,771.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2019	11		2,502.26	325.11	54,432.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2019	12		5,799.68	1.08	59,653.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	1		8,503.61	0.00	60,929.11	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	2		9,121.92	0.00	54,642.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	3		7,482.08	39.27	53,879.95	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	4		4,354.43	248.04	55,277.72	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	5		1,537.09	1,252.69	54,533.89	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	6		279.13	5,983.29	56,346.17	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	7		8.52	14,315.13	56,087.22	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	8		0.00	15,721.48	53,837.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2020	9		10.79	11,574.46	55,975.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2020	10		507.87	3,437.23	53,851.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2020	11		2,482.39	321.58	53,550.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2020	12		5,755.97	1.07	58,710.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	1		8,452.68	0.00	60,023.47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	2		9,078.45	0.00	53,896.23	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	3		7,455.74	39.02	53,210.86	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	4		4,344.58	246.79	54,660.30	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	5		1,535.45	1,247.83	53,989.46	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	6		279.14	5,966.59	55,844.68	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	7		8.53	14,288.72	55,640.76	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	8		0.00	15,705.05	53,452.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2021	9		10.81	11,569.80	55,610.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2021	10		509.35	3,437.55	53,526.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2021	11		2,490.54	321.73	53,246.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2021	12		5,776.33	1.07	58,391.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2022	1		8,507.34	0.00	59,800.31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	2		9,137.57	0.00	53,698.35	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	3		7,504.01	39.06	53,013.46	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	4		4,372.20	247.02	54,451.17	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	5		1,544.92	1,248.76	53,772.74	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	6		280.79	5,969.49	55,606.14	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	7		8.57	14,291.06	55,385.18	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	8		0.00	15,701.66	53,186.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2022	9		10.86	11,562.75	55,312.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2022	10		511.59	3,434.03	53,217.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2022	11		2,500.42	321.27	52,916.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2022	12		5,797.75	1.07	58,015.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	1		8,320.96	0.00	59,473.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	2		8,936.59	0.00	53,400.40	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	3		7,338.70	38.86	52,717.45	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	4		4,275.98	245.78	54,148.30	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	5		1,511.06	1,242.60	53,478.59	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	6		274.68	5,941.01	55,310.81	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	7		8.39	14,226.21	55,103.95	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	8		0.00	15,635.54	52,933.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2023	9		10.64	11,519.28	55,074.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2023	10		501.22	3,422.87	53,016.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2023	11		2,451.15	320.40	52,746.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2023	12		5,685.48	1.06	57,848.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	1		8,169.79	0.00	59,362.60	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	2		8,776.64	0.00	53,315.16	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	3		7,209.29	38.83	52,647.52	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	4		4,201.63	245.66	54,090.05	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	5		1,485.11	1,242.27	53,432.74	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	6		270.01	5,940.48	55,272.94	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	7		8.25	14,226.56	55,072.51	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	8		0.00	15,636.79	52,906.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2024	9		10.46	11,520.28	55,046.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2024	10		492.77	3,423.03	52,987.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2024	11		2,409.62	320.40	52,713.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2024	12		5,588.28	1.06	57,803.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	1		8,030.57	0.00	59,332.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	2		8,625.11	0.00	53,275.98	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	3		7,083.15	38.82	52,596.41	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	4		4,127.15	245.54	54,024.86	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	5		1,458.45	1,241.37	53,356.23	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	6		265.10	5,934.93	55,182.17	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	7		8.10	14,210.62	54,971.82	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	8		0.00	15,616.71	52,800.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2025	9		10.26	11,503.82	54,928.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2025	10		483.52	3,417.72	52,867.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2025	11		2,364.16	319.86	52,588.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2025	12		5,482.38	1.06	57,662.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	1		7,879.43	0.00	59,006.05	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	2		8,462.32	0.00	52,979.97	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	3		6,949.15	38.77	52,301.77	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	4		4,048.90	245.18	53,720.08	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	5		1,430.76	1,239.56	53,053.42	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	6		260.06	5,926.08	54,867.43	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	7		7.94	14,189.09	54,656.94	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	8		0.00	15,592.69	52,497.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2026	9		10.07	11,485.83	54,611.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2026	10		474.28	3,412.30	52,560.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2026	11		2,318.93	319.35	52,282.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2026	12		5,377.64	1.06	57,328.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	1		7,732.21	0.00	58,706.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	2		8,304.65	0.00	52,714.14	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	3		6,820.08	38.73	52,042.49	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	4		3,973.99	244.97	53,457.58	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	5		1,404.40	1,238.57	52,798.49	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	6		255.29	5,921.93	54,608.84	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2027	7	7.80	14,180.62	54,405.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	8	0.00	15,585.20	52,261.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2027	9	9.89	11,481.74	54,373.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2027	10	465.81	3,411.53	52,337.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2027	11	2,277.80	319.32	52,068.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2027	12	5,282.92	1.06	57,099.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	1	7,594.71	0.00	58,516.92	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	2	8,157.93	0.00	52,549.70	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	3	6,700.30	38.77	51,885.72	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	4	3,904.54	245.20	53,301.31	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	5	1,379.96	1,239.81	52,647.96	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	6	250.86	5,928.14	54,456.05	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	7	7.66	14,195.93	54,254.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	8	0.00	15,602.16	52,117.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2028	9	9.72	11,494.10	54,222.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2028	10	457.72	3,415.10	52,191.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2028	11	2,238.17	319.64	51,919.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2028	12	5,190.75	1.06	56,934.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	1	7,466.63	0.00	58,378.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	2	8,019.79	0.00	52,421.97	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	3	6,586.36	38.81	51,755.78	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	4	3,837.87	245.47	53,164.05	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	5	1,356.29	1,241.09	52,508.59	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	6	246.55	5,933.85	54,307.96	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	7	7.53	14,208.60	54,103.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	8	0.00	15,615.03	51,968.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2029	9	9.55	11,502.91	54,064.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2029	10	449.73	3,417.53	52,036.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2029	11	2,198.98	319.85	51,763.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2029	12	5,099.54	1.06	56,759.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	1	7,334.10	0.00	58,002.96	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	2	7,876.99	0.00	52,081.57	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	3	6,468.76	38.82	51,417.10	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2030	4		3,769.18	245.52	52,813.81	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	5		1,331.97	1,241.30	52,160.81	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	6		242.12	5,934.67	53,946.85	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	7		7.39	14,210.34	53,742.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	8		0.00	15,616.83	51,621.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2030	9		9.37	11,504.23	53,703.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2030	10		441.64	3,417.95	51,689.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2030	11		2,159.48	319.90	51,418.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2030	12		5,008.07	1.06	56,383.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	1		7,199.28	0.00	57,676.41	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	2		7,732.49	0.00	51,790.33	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	3		6,350.34	38.85	51,131.54	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	4		3,700.32	245.70	52,522.52	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	5		1,307.68	1,242.25	51,875.01	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	6		237.71	5,939.45	53,653.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	7		7.26	14,222.16	53,451.22	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	8		0.00	15,630.18	51,343.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2031	9		9.20	11,514.28	53,414.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2031	10		433.64	3,420.99	51,412.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2031	11		2,120.38	320.18	51,143.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2031	12		4,917.38	1.06	56,081.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	1		7,070.76	0.00	57,424.23	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	2		7,594.42	0.00	51,563.65	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	3		6,236.92	38.90	50,907.54	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	4		3,634.20	246.00	52,291.92	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	5		1,284.31	1,243.80	51,646.87	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	6		233.46	5,946.79	53,416.87	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	7		7.13	14,239.78	53,216.09	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	8		0.00	15,649.65	51,117.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2032	9		9.04	11,528.72	53,180.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2032	10		425.90	3,425.31	51,187.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2032	11		2,082.55	320.59	50,920.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2032	12		4,829.78	1.07	55,838.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2033	1	6,950.28	6,950.28	0.00	57,207.07	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	2	7,465.19	7,465.19	0.00	51,369.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	3	6,130.93	6,130.93	38.97	50,717.43	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	4	3,572.54	3,572.54	246.45	52,098.15	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	5	1,262.55	1,262.55	1,246.07	51,456.83	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	6	229.51	229.51	5,957.81	53,221.50	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	7	7.01	7.01	14,266.42	53,022.38	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	8	0.00	0.00	15,679.12	50,932.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2033	9	8.89	8.89	11,550.52	52,988.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2033	10	418.71	418.71	3,431.81	51,002.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2033	11	2,047.41	2,047.41	321.20	50,736.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2033	12	4,748.20	4,748.20	1.07	55,635.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	1	6,832.57	6,832.57	0.00	57,034.01	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	2	7,338.53	7,338.53	0.00	51,212.84	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	3	6,026.70	6,026.70	39.05	50,560.66	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	4	3,511.69	3,511.69	246.98	51,935.31	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	5	1,241.00	1,241.00	1,248.73	51,294.29	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	6	225.59	225.59	5,970.32	53,051.77	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	7	6.89	6.89	14,295.99	52,851.87	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	8	0.00	0.00	15,711.24	50,767.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2034	9	8.74	8.74	11,573.88	52,815.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2034	10	411.51	411.51	3,438.66	50,834.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2034	11	2,012.15	2,012.15	321.83	50,568.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2034	12	4,666.44	4,666.44	1.07	55,451.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	1	6,718.58	6,718.58	0.00	56,880.41	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	2	7,216.19	7,216.19	0.00	51,075.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	3	5,926.30	5,926.30	39.14	50,425.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	4	3,453.21	3,453.21	247.57	51,797.03	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	5	1,220.34	1,220.34	1,251.68	51,157.75	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	6	221.83	221.83	5,984.41	52,910.22	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	7	6.78	6.78	14,329.53	52,710.11	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	8	0.00	0.00	15,747.76	50,629.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2035	9	8.59	8.59	11,600.48	52,670.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2035	10		404.62	3,446.45	50,694.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2035	11		1,978.37	322.55	50,426.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2035	12		4,587.91	1.07	55,293.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	1		6,605.54	0.00	56,740.08	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	2		7,094.52	0.00	50,947.73	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	3		5,826.16	39.24	50,297.62	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	4		3,394.71	248.15	51,663.19	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	5		1,199.61	1,254.56	51,023.42	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	6		218.05	5,997.94	52,769.22	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	7		6.66	14,361.41	52,567.76	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	8		0.00	15,782.30	50,491.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2036	9		8.44	11,625.63	52,525.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2036	10		397.69	3,453.85	50,553.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2036	11		1,944.45	323.24	50,286.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2036	12		4,509.13	1.07	55,137.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	1		6,494.17	0.00	56,602.03	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	2		6,974.70	0.00	50,822.26	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	3		5,727.61	39.33	50,172.42	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	4		3,337.23	248.73	51,533.71	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	5		1,179.29	1,257.50	50,894.83	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	6		214.36	6,011.91	52,635.65	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	7		6.55	14,394.73	52,434.27	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	8		0.00	15,818.81	50,362.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2037	9		8.30	11,652.47	52,391.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2037	10		390.94	3,461.82	50,424.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2037	11		1,911.43	323.98	50,157.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2037	12		4,432.56	1.08	54,996.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	1		6,382.25	0.00	56,488.82	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	2		6,854.50	0.00	50,720.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	3		5,628.90	39.43	50,072.06	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	4		3,279.71	249.37	51,430.57	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	5		1,158.96	1,260.72	50,792.87	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	6		210.66	6,027.32	52,530.02	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2038	7	6.43	14,431.56	52,328.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	8	0.00	15,859.18	50,261.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2038	9	8.16	11,682.11	52,285.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2038	10	384.18	3,470.59	50,321.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2038	11	1,878.40	324.80	50,054.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2038	12	4,355.96	1.08	54,884.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	1	6,273.77	0.00	56,396.74	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	2	6,738.00	0.00	50,638.04	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	3	5,533.25	39.54	49,990.66	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	4	3,223.99	250.05	51,347.17	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	5	1,139.27	1,264.20	50,710.79	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	6	207.08	6,043.97	52,445.54	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	7	6.32	14,471.56	52,245.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	8	0.00	15,903.33	50,181.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2039	9	8.02	11,714.80	52,203.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2039	10	377.68	3,480.35	50,243.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2039	11	1,846.63	325.72	49,977.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2039	12	4,282.47	1.08	54,801.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	1	6,166.16	0.00	56,180.49	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	2	6,622.85	0.00	50,447.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	3	5,439.03	39.64	49,805.28	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	4	3,169.27	250.71	51,159.55	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	5	1,119.99	1,267.56	50,528.03	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	6	203.59	6,060.28	52,258.76	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	7	6.22	14,511.13	52,060.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	8	0.00	15,947.26	50,005.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2040	9	7.88	11,747.51	52,022.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2040	10	371.35	3,490.16	50,070.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2040	11	1,815.72	326.65	49,806.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2040	12	4,210.58	1.09	54,611.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	1	6,067.52	0.00	56,040.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	2	6,516.36	0.00	50,317.32	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	3	5,351.13	39.75	49,672.99	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2041	4		3,117.80	251.39	51,019.70	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	5		1,101.72	1,270.92	50,386.13	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	6		200.25	6,075.94	52,108.40	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	7		6.12	14,547.71	51,907.85	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	8		0.00	15,986.55	49,856.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2041	9		7.75	11,775.78	51,863.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2041	10		365.18	3,498.38	49,914.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2041	11		1,785.48	327.40	49,649.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2041	12		4,140.34	1.09	54,438.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	1		5,968.49	0.00	55,900.21	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	2		6,409.87	0.00	50,190.12	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	3		5,263.56	39.85	49,546.31	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	4		3,066.70	252.01	50,888.32	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	5		1,083.64	1,274.00	50,255.03	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	6		196.96	6,090.51	51,971.31	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	7		6.01	14,582.15	51,769.65	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	8		0.00	16,023.82	49,721.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2042	9		7.62	11,802.75	51,721.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2042	10		359.12	3,506.23	49,775.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2042	11		1,755.77	328.12	49,509.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2042	12		4,071.21	1.09	54,281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	1		5,868.42	0.00	55,786.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	2		6,302.00	0.00	50,084.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	3		5,174.65	39.94	49,438.83	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	4		3,014.70	252.55	50,774.58	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	5		1,065.19	1,276.66	50,139.46	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	6		193.60	6,102.82	51,848.59	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	7		5.91	14,610.76	51,644.42	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	8		0.00	16,054.37	49,598.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2043	9		7.49	11,824.55	51,590.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2043	10		352.91	3,512.51	49,646.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2043	11		1,725.28	328.69	49,378.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2043	12		4,000.49	1.09	54,136.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2044	1		5,769.13	0.00	55,670.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	2		6,195.49	0.00	49,981.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	3		5,087.29	40.02	49,338.33	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	4		2,963.86	253.05	50,672.13	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	5		1,047.24	1,279.20	50,039.02	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	6		190.34	6,115.08	51,745.39	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	7		5.81	14,640.28	51,542.18	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	8		0.00	16,086.95	49,500.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2044	9		7.37	11,848.70	51,489.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2044	10		346.98	3,519.73	49,550.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2044	11		1,696.33	329.37	49,282.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2044	12		3,933.27	1.09	54,031.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	1		5,671.29	0.00	55,596.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	2		6,090.19	0.00	49,913.04	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	3		5,000.63	40.10	49,268.72	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	4		2,913.27	253.57	50,598.97	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	5		1,029.34	1,281.83	49,965.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	6		187.08	6,127.44	51,667.60	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	7		5.71	14,669.51	51,463.40	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	8		0.00	16,118.70	49,424.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2045	9		7.24	11,871.80	51,408.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2045	10		341.01	3,526.51	49,471.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2045	11		1,667.09	330.00	49,202.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2045	12		3,865.42	1.10	53,943.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	1		5,576.46	0.00	55,537.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	2		5,988.29	0.00	49,860.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	3		4,916.92	40.18	49,216.08	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	4		2,864.47	254.10	50,544.35	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	5		1,012.08	1,284.45	49,910.68	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	6		183.94	6,139.92	51,610.56	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	7		5.62	14,699.19	51,405.91	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	8		0.00	16,151.08	49,368.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2046	9		7.12	11,895.45	51,349.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2046	10		335.26	3,533.48	49,413.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2046	11		1,638.99	330.64	49,144.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2046	12		3,800.21	1.10	53,878.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	1		5,483.93	0.00	55,512.04	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	2		5,888.79	0.00	49,835.82	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	3		4,835.11	40.27	49,190.84	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	4		2,816.74	254.62	50,517.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	5		995.20	1,287.05	49,882.81	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	6		180.87	6,152.23	51,580.68	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	7		5.52	14,728.37	51,375.20	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	8		0.00	16,182.87	49,337.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2047	9		7.00	11,918.65	51,316.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2047	10		329.64	3,540.31	49,381.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2047	11		1,611.47	331.27	49,112.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2047	12		3,736.40	1.10	53,842.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	1		5,393.21	0.00	55,506.58	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	2		5,791.39	0.00	49,831.05	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	3		4,755.15	40.35	49,186.29	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	4		2,770.16	255.12	50,512.54	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	5		978.74	1,289.62	49,878.19	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	6		177.87	6,164.51	51,576.04	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	7		5.43	14,757.86	51,370.84	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	8		0.00	16,215.38	49,333.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2048	9		6.88	11,942.67	51,312.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2048	10		324.20	3,547.48	49,378.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2048	11		1,584.89	331.95	49,109.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2048	12		3,674.80	1.10	53,840.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	1		5,306.21	0.00	55,532.37	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	2		5,697.96	0.00	49,854.25	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	3		4,678.45	40.43	49,209.30	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	4		2,725.47	255.63	50,536.06	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	5		962.95	1,292.18	49,901.39	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	6		175.01	6,176.74	51,600.11	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2049	7	5.34	14,787.20	51,395.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	8	0.00	16,247.70	49,357.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2049	9	6.77	11,966.54	51,337.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2049	10	318.98	3,554.59	49,402.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2049	11	1,559.37	332.62	49,133.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2049	12	3,615.67	1.10	53,867.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	1	5,222.31	0.00	55,584.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	2	5,607.96	0.00	49,901.98	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	3	4,604.62	40.51	49,257.23	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	4	2,682.50	256.18	50,585.96	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	5	947.78	1,294.98	49,951.39	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	6	172.25	6,190.23	51,652.65	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	7	5.26	14,819.74	51,448.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	8	0.00	16,283.78	49,409.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2050	9	6.67	11,993.36	51,392.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2050	10	313.98	3,562.64	49,456.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2050	11	1,534.99	333.38	49,188.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2050	12	3,559.23	1.11	53,929.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	1	5,139.88	0.00	55,644.46	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	2	5,519.58	0.00	49,956.83	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	3	4,532.17	40.60	49,312.62	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	4	2,640.35	256.75	50,643.97	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	5	932.91	1,297.87	50,009.87	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	6	169.55	6,204.19	51,714.40	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	7	5.18	14,853.54	51,511.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	8	0.00	16,321.36	49,471.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2051	9	6.56	12,021.40	51,458.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2051	10	309.10	3,571.08	49,521.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2051	11	1,511.16	334.18	49,254.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2051	12	3,504.09	1.11	54,003.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	1	5,059.35	0.00	55,716.73	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	2	5,433.21	0.00	50,022.74	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	3	4,461.35	40.70	49,378.76	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on
2052	4		2,599.14	257.34	50,712.84	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	5		918.37	1,300.90	50,078.87	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	6		166.91	6,218.80	51,786.85	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	7		5.10	14,888.87	51,584.39	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	8		0.00	16,360.57	49,542.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2052	9		6.46	12,050.59	51,534.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2052	10		304.32	3,579.84	49,595.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2052	11		1,487.83	335.01	49,330.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2052	12		3,450.09	1.11	54,087.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	1		4,980.45	0.00	55,799.01	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	2		5,348.56	0.00	50,097.32	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	3		4,391.91	40.79	49,453.14	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	4		2,558.71	257.95	50,789.84	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	5		904.10	1,303.99	50,155.58	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	6		164.32	6,233.71	51,866.95	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	7		5.02	14,924.80	51,665.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	8		0.00	16,400.34	49,621.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2053	9		6.36	12,080.11	51,616.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2053	10		299.61	3,588.69	49,676.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2053	11		1,464.87	335.84	49,411.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2053	12		3,396.92	1.12	54,177.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	1		4,902.80	0.00	55,887.33	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	2		5,265.23	0.00	50,177.33	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	3		4,323.55	40.89	49,532.88	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	4		2,518.92	258.56	50,872.34	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	5		890.05	1,307.10	50,237.72	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	6		161.77	6,248.67	51,952.65	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	7		4.94	14,960.85	51,751.21	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	8		0.00	16,440.25	49,704.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
2054	9		6.26	12,109.73	51,704.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00
2054	10		294.99	3,597.56	49,761.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00
2054	11		1,442.26	336.68	49,497.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
2054	12		3,344.58	1.12	54,273.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2011	1	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	2	0.00	0.00	0.00	1.00	0.00	0.00	0	0
2011	3	0.00	0.00	0.00	0.00	1.00	0.00	0	0
2011	4	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	5	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	6	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	7	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	8	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	9	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	10	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	11	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2011	12	0.00	0.00	0.00	0.00	0.00	0.00	0	0
2012	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	7	0.00	1.00	1.00	0.00	0.00	0.00	0	0
2012	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2012	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2013	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2013	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	8	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	9	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	10	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	11	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2014	12	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	1	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	2	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	3	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	4	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	5	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	6	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	7	0.00	0.00	1.00	0.00	0.00	0.00	0	0
2015	8	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2015	9	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2015	10	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2015	11	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2015	12	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	1	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	2	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	3	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	4	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	5	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	6	0.00	0.00	1.00	0.00	0.00	1.00	0	0

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2016	7	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	8	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	9	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	10	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	11	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2016	12	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	1	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	2	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	3	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	4	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	5	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	6	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	7	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	8	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	9	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	10	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	11	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2017	12	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	1	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	2	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	3	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	4	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	5	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	6	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	7	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	8	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	9	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	10	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	11	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2018	12	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2019	1	0.00	0.00	1.00	0.00	0.00	1.00	0	0
2019	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2019	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2019	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2020	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2021	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2022	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2022	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2023	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2024	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2024	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2025	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2026	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2027	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2027	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2028	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2029	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2030	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2030	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2031	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2032	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2033	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2033	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2034	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2035	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2035	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2036	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2037	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2038	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2038	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2039	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2040	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2041	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2041	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2042	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2043	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2044	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2044	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2045	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2046	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2046	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2047	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2048	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2049	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2049	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2050	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2051	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Input Data

Year	Month	d0506	12-Jul	D12on	11-Feb	11-Mar	aug15on	XMissing	YMissing
2052	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2052	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2053	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	1	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	2	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	3	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	4	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	5	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	6	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	7	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	8	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	9	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	10	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	11	0.00	0.00	1.00	0.00	0.00	1.00	0	1
2054	12	0.00	0.00	1.00	0.00	0.00	1.00	0	1

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Coefficients

Variable	Coefficient	StdErr	T-Stat	P-Value	Units	Definition
CONST	26688.243	5960.470	4.478	0.00%		Constant term
CommercialVars.XHeat	0.745	0.090	8.285	0.00%		Commercial Heating Component
CommercialVars.XCool	0.647	0.049	13.308	0.00%		Commercial Cooling Component
CommercialVars.XOther	0.412	0.084	4.904	0.00%		Commercial Other Component
BinaryVars.Jan	95.065	563.011	0.169	86.61%		January
BinaryVars.Feb	-2847.729	711.817	-4.001	0.01%		February
BinaryVars.Mar	-3617.736	683.849	-5.290	0.00%		March
BinaryVars.Apr	-3630.258	620.267	-5.853	0.00%		April
BinaryVars.May	-2257.286	790.264	-2.856	0.47%		May
BinaryVars.Jun	1759.564	845.164	2.082	3.86%		June
BinaryVars.Jul	4621.905	1074.758	4.300	0.00%		July
BinaryVars.Aug	6408.162	1226.839	5.223	0.00%		August
BinaryVars.Sep	7284.612	1007.238	7.232	0.00%		September
BinaryVars.Oct	2485.490	898.439	2.766	0.62%		October
BinaryVars.Nov	-1379.773	792.592	-1.741	8.32%		November
BinaryVars.D07on	7612.481	356.781	21.337	0.00%		Binary Variable - 2007 On
BinaryVars.D09on	1895.363	618.049	3.067	0.25%		Binary Variable - 2009 On
BinaryVars.Aug10on	-1467.035	522.394	-2.808	0.55%		Binary Variable - August 2010 On
BinaryVars.d0506	2700.974	374.082	7.220	0.00%		Binary Variable - 2005 and 2006
BinaryVars.Jul12	5779.563	1595.504	3.622	0.04%		Binary Variable - July 2012
BinaryVars.D12on	2541.326	554.292	4.585	0.00%		Binary Variable - 2012 On
BinaryVars.Feb11	-3272.904	1552.271	-2.108	3.62%		Binary Variable - February 2011
BinaryVars.Mar11	3927.329	1555.589	2.525	1.23%		Binary Variable - March 2011
BinaryVars.aug15on	1038.956	327.228	3.175	0.17%		Binary Variable - August 2015 On

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Statistics

Model Statistics		Forecast Statistics	
Iterations	1	Forecast Observations	0
Adjusted Observations	229	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	205	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.962	Avg. Forecast Error	0.00
Adjusted R-Squared	0.957	Mean % Error	0.00%
AIC	14.669	Root Mean-Square Error	0.00
BIC	15.029	Theil's Inequality Coefficient	0.0000
F-Statistic	223.387	-- Bias Proportion	0.00%
Prob (F-Statistic)	0.0000	-- Variance Proportion	0.00%
Log-Likelihood	-1,980.53	-- Covariance Proportion	0.00%
Model Sum of Squares	10,926,421,111.88		
Sum of Squared Errors	435,958,999.59		
Mean Squared Error	2,126,629.27		
Std. Error of Regression	1,458.30		
Mean Abs. Dev. (MAD)	1,065.85		
Mean Abs. % Err. (MAPE)	1.64%		
Durbin-Watson Statistic	0.936		
Durbin-H Statistic	#NA		
Ljung-Box Statistic	96.62		
Prob (Ljung-Box)	0.0000		
Skewness	-0.316		
Kurtosis	3.384		
Jarque-Bera	5.208		
Prob (Jarque-Bera)	0.0740		

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2000	1	64,606.390	26,688.243	7,869.454	0.000	29,953.630	95.065	0.000	0.000	0.000	0.000	0.000
2000	2	60,620.482	26,688.243	9,689.496	0.000	27,090.473	0.000	-2,847.729	0.000	0.000	0.000	0.000
2000	3	54,914.895	26,688.243	4,837.278	117.417	26,889.693	0.000	0.000	-3,617.736	0.000	0.000	0.000
2000	4	53,618.766	26,688.243	3,470.212	71.636	27,018.935	0.000	0.000	0.000	-3,630.258	0.000	0.000
2000	5	54,402.287	26,688.243	1,594.931	1,606.464	26,769.936	0.000	0.000	0.000	0.000	-2,257.286	0.000
2000	6	60,291.471	26,688.243	194.479	3,613.943	28,035.243	0.000	0.000	0.000	0.000	0.000	1,759.564
2000	7	66,113.445	26,688.243	18.968	7,349.737	27,434.593	0.000	0.000	0.000	0.000	0.000	0.000
2000	8	67,225.090	26,688.243	0.000	7,523.717	26,604.969	0.000	0.000	0.000	0.000	0.000	0.000
2000	9	70,211.281	26,688.243	29.320	8,805.720	27,403.387	0.000	0.000	0.000	0.000	0.000	0.000
2000	10	58,252.916	26,688.243	679.579	2,193.580	26,206.024	0.000	0.000	0.000	0.000	0.000	0.000
2000	11	52,768.630	26,688.243	1,828.344	148.639	25,483.178	0.000	0.000	0.000	0.000	0.000	0.000
2000	12	63,180.676	26,688.243	7,892.673	0.000	28,599.761	0.000	0.000	0.000	0.000	0.000	0.000
2001	1	67,175.182	26,688.243	11,054.204	0.000	29,337.671	95.065	0.000	0.000	0.000	0.000	0.000
2001	2	59,130.091	26,688.243	8,834.540	0.000	26,455.039	0.000	-2,847.729	0.000	0.000	0.000	0.000
2001	3	56,549.439	26,688.243	7,281.537	0.000	26,197.397	0.000	0.000	-3,617.736	0.000	0.000	0.000
2001	4	54,114.395	26,688.243	4,621.780	145.605	26,289.026	0.000	0.000	0.000	-3,630.258	0.000	0.000
2001	5	53,057.030	26,688.243	829.006	1,755.530	26,041.538	0.000	0.000	0.000	0.000	-2,257.286	0.000
2001	6	58,977.186	26,688.243	281.596	2,954.903	27,292.880	0.000	0.000	0.000	0.000	0.000	1,759.564
2001	7	66,360.310	26,688.243	31.894	8,257.809	26,760.459	0.000	0.000	0.000	0.000	0.000	0.000
2001	8	72,872.690	26,688.243	0.000	13,739.411	26,036.874	0.000	0.000	0.000	0.000	0.000	0.000
2001	9	68,699.493	26,688.243	9.686	7,793.239	26,923.713	0.000	0.000	0.000	0.000	0.000	0.000
2001	10	56,726.705	26,688.243	538.678	1,143.829	25,870.466	0.000	0.000	0.000	0.000	0.000	0.000
2001	11	52,386.214	26,688.243	1,725.938	60.590	25,291.217	0.000	0.000	0.000	0.000	0.000	0.000
2001	12	58,105.716	26,688.243	2,858.019	0.000	28,559.454	0.000	0.000	0.000	0.000	0.000	0.000
2002	1	63,649.504	26,688.243	7,365.837	0.000	29,500.361	95.065	0.000	0.000	0.000	0.000	0.000
2002	2	56,941.114	26,688.243	6,352.904	0.000	26,747.697	0.000	-2,847.729	0.000	0.000	0.000	0.000
2002	3	56,110.733	26,688.243	6,413.305	0.000	26,626.922	0.000	0.000	-3,617.736	0.000	0.000	0.000
2002	4	55,495.889	26,688.243	5,016.101	570.055	26,851.748	0.000	0.000	0.000	-3,630.258	0.000	0.000
2002	5	54,217.401	26,688.243	1,855.072	1,228.750	26,702.622	0.000	0.000	0.000	0.000	-2,257.286	0.000
2002	6	60,269.211	26,688.243	706.807	3,039.422	28,075.175	0.000	0.000	0.000	0.000	0.000	1,759.564
2002	7	73,029.602	26,688.243	0.000	14,129.911	27,589.543	0.000	0.000	0.000	0.000	0.000	0.000
2002	8	75,245.597	26,688.243	0.000	15,282.712	26,866.481	0.000	0.000	0.000	0.000	0.000	0.000
2002	9	71,879.439	26,688.243	0.000	10,123.301	27,783.283	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2005	7	75,078.320	26,688.243	0.000	13,561.140	27,506.059	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	77,368.044	26,688.243	0.000	14,338.488	27,232.177	0.000	0.000	0.000	0.000	0.000	0.000
2005	9	75,005.748	26,688.243	0.000	9,465.432	28,866.487	0.000	0.000	0.000	0.000	0.000	0.000
2005	10	63,929.024	26,688.243	302.898	4,528.782	27,222.637	0.000	0.000	0.000	0.000	0.000	0.000
2005	11	57,222.670	26,688.243	2,009.460	379.531	26,824.235	0.000	0.000	0.000	0.000	0.000	0.000
2005	12	65,392.351	26,688.243	6,844.587	0.000	29,158.547	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	67,295.460	26,688.243	7,186.977	0.000	30,624.202	95.065	0.000	0.000	0.000	0.000	0.000
2006	2	60,341.887	26,688.243	6,061.719	0.000	27,738.680	0.000	-2,847.729	0.000	0.000	0.000	0.000
2006	3	59,277.723	26,688.243	6,793.257	0.000	26,712.985	0.000	0.000	-3,617.736	0.000	0.000	0.000
2006	4	56,707.443	26,688.243	3,939.379	54.764	26,954.343	0.000	0.000	0.000	-3,630.258	0.000	0.000
2006	5	55,721.737	26,688.243	940.612	98.966	27,550.229	0.000	0.000	0.000	0.000	-2,257.286	0.000
2006	6	64,026.349	26,688.243	484.432	3,842.646	28,550.490	0.000	0.000	0.000	0.000	0.000	1,759.564
2006	7	70,837.937	26,688.243	0.000	8,181.503	28,645.313	0.000	0.000	0.000	0.000	0.000	0.000
2006	8	76,788.199	26,688.243	0.000	13,492.988	27,497.832	0.000	0.000	0.000	0.000	0.000	0.000
2006	9	70,298.011	26,688.243	19,799	5,778.040	27,826.342	0.000	0.000	0.000	0.000	0.000	0.000
2006	10	60,578.018	26,688.243	696.837	658.025	27,348.449	0.000	0.000	0.000	0.000	0.000	0.000
2006	11	58,164.956	26,688.243	3,170.062	25.276	26,960.176	0.000	0.000	0.000	0.000	0.000	0.000
2006	12	63,407.707	26,688.243	4,601.686	0.000	29,416.805	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	70,549.759	26,688.243	5,266.778	0.000	30,887.194	95.065	0.000	0.000	0.000	0.000	0.000
2007	2	68,715.015	26,688.243	9,230.923	0.000	28,031.098	0.000	-2,847.729	0.000	0.000	0.000	0.000
2007	3	65,658.065	26,688.243	8,312.143	15.281	26,647.654	0.000	0.000	-3,617.736	0.000	0.000	0.000
2007	4	62,720.401	26,688.243	3,323.310	403.046	28,323.580	0.000	0.000	0.000	-3,630.258	0.000	0.000
2007	5	61,712.398	26,688.243	1,296.796	991.148	27,381.016	0.000	0.000	0.000	0.000	-2,257.286	0.000
2007	6	70,670.082	26,688.243	79.455	6,282.891	28,247.449	0.000	0.000	0.000	0.000	0.000	1,759.564
2007	7	77,913.647	26,688.243	0.000	10,706.970	28,284.049	0.000	0.000	0.000	0.000	0.000	0.000
2007	8	78,157.797	26,688.243	0.000	11,392.250	26,056.662	0.000	0.000	0.000	0.000	0.000	0.000
2007	9	80,773.231	26,688.243	16.712	9,790.043	29,381.141	0.000	0.000	0.000	0.000	0.000	0.000
2007	10	68,588.554	26,688.243	170.918	5,188.578	26,442.845	0.000	0.000	0.000	0.000	0.000	0.000
2007	11	62,937.589	26,688.243	1,862.764	1,061.216	27,092.659	0.000	0.000	0.000	0.000	0.000	0.000
2007	12	70,192.655	26,688.243	5,774.598	0.000	30,117.334	0.000	0.000	0.000	0.000	0.000	0.000
2008	1	72,035.581	26,688.243	7,004.534	0.000	30,635.258	95.065	0.000	0.000	0.000	0.000	0.000
2008	2	67,354.014	26,688.243	8,643.279	0.000	27,257.741	0.000	-2,847.729	0.000	0.000	0.000	0.000
2008	3	65,351.330	26,688.243	7,908.152	0.000	26,760.191	0.000	0.000	-3,617.736	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2008	4	62,386.876	26,688.243	4,412.738	9.866	27,293.807	0.000	0.000	0.000	-3,630.258	0.000	0.000
2008	5	60,223.083	26,688.243	1,316.164	250.457	26,613.025	0.000	0.000	0.000	0.000	-2,257.286	0.000
2008	6	68,214.890	26,688.243	384.347	4,026.875	27,743.382	0.000	0.000	0.000	0.000	0.000	1,759.564
2008	7	74,765.788	26,688.243	0.146	8,287.276	27,555.738	0.000	0.000	0.000	0.000	0.000	0.000
2008	8	77,734.918	26,688.243	0.000	10,355.117	26,670.916	0.000	0.000	0.000	0.000	0.000	0.000
2008	9	75,110.681	26,688.243	0.000	6,600.291	26,925.054	0.000	0.000	0.000	0.000	0.000	0.000
2008	10	65,126.837	26,688.243	289.522	2,019.634	26,031.468	0.000	0.000	0.000	0.000	0.000	0.000
2008	11	61,335.072	26,688.243	2,207.187	219.141	25,987.793	0.000	0.000	0.000	0.000	0.000	0.000
2008	12	67,941.902	26,688.243	6,364.082	0.000	27,277.097	0.000	0.000	0.000	0.000	0.000	0.000
2009	1	72,938.487	26,688.243	8,108.824	0.000	28,538.513	95.065	0.000	0.000	0.000	0.000	0.000
2009	2	67,993.913	26,688.243	9,206.977	0.000	25,438.579	0.000	-2,847.729	0.000	0.000	0.000	0.000
2009	3	63,085.024	26,688.243	5,876.779	0.000	24,629.896	0.000	0.000	-3,617.736	0.000	0.000	0.000
2009	4	61,256.837	26,688.243	3,243.061	18.433	25,429.515	0.000	0.000	0.000	-3,630.258	0.000	0.000
2009	5	60,818.850	26,688.243	1,237.245	571.007	25,071.797	0.000	0.000	0.000	0.000	-2,257.286	0.000
2009	6	65,859.798	26,688.243	187.194	2,351.209	25,365.746	0.000	0.000	0.000	0.000	0.000	1,759.564
2009	7	72,923.321	26,688.243	0.135	6,992.292	25,112.905	0.000	0.000	0.000	0.000	0.000	0.000
2009	8	73,520.965	26,688.243	0.000	6,820.013	24,096.704	0.000	0.000	0.000	0.000	0.000	0.000
2009	9	73,827.158	26,688.243	0.000	4,742.743	25,603.717	0.000	0.000	0.000	0.000	0.000	0.000
2009	10	65,276.186	26,688.243	783.993	1,078.701	24,731.917	0.000	0.000	0.000	0.000	0.000	0.000
2009	11	61,461.286	26,688.243	1,858.646	0.000	24,786.327	0.000	0.000	0.000	0.000	0.000	0.000
2009	12	67,801.380	26,688.243	4,376.718	0.000	27,228.576	0.000	0.000	0.000	0.000	0.000	0.000
2010	1	71,525.356	26,688.243	7,578.151	0.000	27,656.054	95.065	0.000	0.000	0.000	0.000	0.000
2010	2	66,430.695	26,688.243	7,689.681	0.000	25,392.657	0.000	-2,847.729	0.000	0.000	0.000	0.000
2010	3	63,100.885	26,688.243	6,040.486	0.000	24,482.050	0.000	0.000	-3,617.736	0.000	0.000	0.000
2010	4	61,302.615	26,688.243	2,259.912	530.056	25,946.819	0.000	0.000	0.000	-3,630.258	0.000	0.000
2010	5	60,475.892	26,688.243	842.415	561.509	25,133.169	0.000	0.000	0.000	0.000	-2,257.286	0.000
2010	6	69,859.365	26,688.243	180.662	5,595.197	26,127.856	0.000	0.000	0.000	0.000	0.000	1,759.564
2010	7	78,164.916	26,688.243	0.000	11,235.182	26,111.744	0.000	0.000	0.000	0.000	0.000	0.000
2010	8	81,571.979	26,688.243	0.000	14,851.270	25,583.497	0.000	0.000	0.000	0.000	0.000	0.000
2010	9	77,993.061	26,688.243	0.000	9,910.175	26,069.224	0.000	0.000	0.000	0.000	0.000	0.000
2010	10	65,127.409	26,688.243	333.770	2,323.167	25,255.932	0.000	0.000	0.000	0.000	0.000	0.000
2010	11	60,260.105	26,688.243	1,765.478	224.992	24,920.358	0.000	0.000	0.000	0.000	0.000	0.000
2010	12	67,981.984	26,688.243	5,377.567	0.000	27,875.366	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2011	1	69,861.714	26,688.243	7,664.971	0.000	27,372.629	95.065	0.000	0.000	0.000	0.000	0.000
2011	2	61,712.914	26,688.243	8,373.423	0.000	24,731.074	0.000	-2,847.729	0.000	0.000	0.000	0.000
2011	3	65,102.353	26,688.243	5,980.571	0.000	24,083.138	0.000	0.000	-3,617.736	0.000	0.000	0.000
2011	4	59,159.508	26,688.243	3,731.293	151.082	24,178.341	0.000	0.000	0.000	-3,630.258	0.000	0.000
2011	5	59,892.818	26,688.243	1,326.868	756.017	25,338.168	0.000	0.000	0.000	0.000	-2,257.286	0.000
2011	6	67,814.375	26,688.243	174.641	5,589.103	25,562.016	0.000	0.000	0.000	0.000	0.000	1,759.564
2011	7	75,824.814	26,688.243	0.000	10,438.947	26,034.911	0.000	0.000	0.000	0.000	0.000	0.000
2011	8	81,051.111	26,688.243	0.000	15,666.566	24,247.333	0.000	0.000	0.000	0.000	0.000	0.000
2011	9	74,992.545	26,688.243	30.014	7,912.130	25,036.738	0.000	0.000	0.000	0.000	0.000	0.000
2011	10	63,174.700	26,688.243	349.774	1,278.444	24,331.941	0.000	0.000	0.000	0.000	0.000	0.000
2011	11	59,262.929	26,688.243	1,553.399	211.129	24,149.123	0.000	0.000	0.000	0.000	0.000	0.000
2011	12	63,949.833	26,688.243	3,573.477	0.000	25,647.305	0.000	0.000	0.000	0.000	0.000	0.000
2012	1	68,455.569	26,688.243	5,190.554	0.000	25,899.574	95.065	0.000	0.000	0.000	0.000	0.000
2012	2	63,940.905	26,688.243	5,897.165	0.000	23,621.092	0.000	-2,847.729	0.000	0.000	0.000	0.000
2012	3	61,872.986	26,688.243	4,182.952	475.775	23,561.619	0.000	0.000	-3,617.736	0.000	0.000	0.000
2012	4	60,391.154	26,688.243	1,222.267	1,432.933	24,095.836	0.000	0.000	0.000	-3,630.258	0.000	0.000
2012	5	60,853.576	26,688.243	1,012.406	977.681	23,850.397	0.000	0.000	0.000	0.000	-2,257.286	0.000
2012	6	69,711.558	26,688.243	66.960	6,194.409	24,420.248	0.000	0.000	0.000	0.000	0.000	1,759.564
2012	7	88,033.895	26,688.243	5.968	15,667.772	24,688.310	0.000	0.000	0.000	0.000	0.000	0.000
2012	8	80,753.984	26,688.243	0.000	13,841.475	23,233.971	0.000	0.000	0.000	0.000	0.000	0.000
2012	9	76,042.894	26,688.243	11.546	7,128.909	24,347.451	0.000	0.000	0.000	0.000	0.000	0.000
2012	10	65,011.944	26,688.243	563.852	1,185.459	23,506.766	0.000	0.000	0.000	0.000	0.000	0.000
2012	11	61,947.061	26,688.243	2,240.010	275.928	23,540.519	0.000	0.000	0.000	0.000	0.000	0.000
2012	12	66,082.595	26,688.243	3,463.965	0.000	25,348.253	0.000	0.000	0.000	0.000	0.000	0.000
2013	1	68,616.455	26,688.243	5,485.857	0.000	25,765.158	95.065	0.000	0.000	0.000	0.000	0.000
2013	2	63,964.349	26,688.243	6,512.578	0.000	23,029.123	0.000	-2,847.729	0.000	0.000	0.000	0.000
2013	3	62,633.052	26,688.243	5,889.505	0.000	23,090.907	0.000	0.000	-3,617.736	0.000	0.000	0.000
2013	4	61,933.099	26,688.243	4,257.447	0.000	24,035.533	0.000	0.000	0.000	-3,630.258	0.000	0.000
2013	5	60,381.146	26,688.243	1,224.538	1,026.587	23,116.930	0.000	0.000	0.000	0.000	-2,257.286	0.000
2013	6	67,725.350	26,688.243	233.914	4,244.063	24,217.432	0.000	0.000	0.000	0.000	0.000	1,759.564
2013	7	75,380.487	26,688.243	3.364	9,364.095	24,120.747	0.000	0.000	0.000	0.000	0.000	0.000
2013	8	74,446.732	26,688.243	0.000	7,630.225	23,137.968	0.000	0.000	0.000	0.000	0.000	0.000
2013	9	77,112.859	26,688.243	0.374	8,615.993	23,941.503	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2016	7	75,196.095	26,688.243	0.000	8,481.549	23,783.308	0.000	0.000	0.000	0.000	0.000	0.000
2016	8	80,050.861	26,688.243	0.000	12,505.161	22,828.205	0.000	0.000	0.000	0.000	0.000	0.000
2016	9	78,692.193	26,688.243	0.000	9,638.590	23,459.657	0.000	0.000	0.000	0.000	0.000	0.000
2016	10	67,470.048	26,688.243	104.573	3,381.488	23,189.164	0.000	0.000	0.000	0.000	0.000	0.000
2016	11	61,388.378	26,688.243	1,151.030	324.823	22,982.965	0.000	0.000	0.000	0.000	0.000	0.000
2016	12	67,502.341	26,688.243	4,334.547	4.218	24,854.243	0.000	0.000	0.000	0.000	0.000	0.000
2017	1	70,713.113	26,688.243	6,729.845	0.000	25,578.870	95.065	0.000	0.000	0.000	0.000	0.000
2017	2	63,707.615	26,688.243	5,411.715	0.000	22,834.295	0.000	-2,847.729	0.000	0.000	0.000	0.000
2017	3	61,432.659	26,688.243	4,083.872	0.000	22,657.191	0.000	0.000	-3,617.736	0.000	0.000	0.000
2017	4	60,828.528	26,688.243	3,128.985	87.403	22,933.065	0.000	0.000	0.000	-3,630.258	0.000	0.000
2017	5	60,465.188	26,688.243	997.189	748.193	22,667.758	0.000	0.000	0.000	0.000	-2,257.286	0.000
2017	6	67,700.694	26,688.243	223.346	3,524.503	23,883.949	0.000	0.000	0.000	0.000	0.000	1,759.564
2017	7	74,402.504	26,688.243	0.000	7,919.168	23,552.098	0.000	0.000	0.000	0.000	0.000	0.000
2017	8	75,408.663	26,688.243	0.000	7,800.527	22,890.641	0.000	0.000	0.000	0.000	0.000	0.000
2017	9	73,315.271	26,688.243	0.000	3,971.962	23,749.364	0.000	0.000	0.000	0.000	0.000	0.000
2017	10	68,331.633	26,688.243	49.331	4,548.647	22,938.831	0.000	0.000	0.000	0.000	0.000	0.000
2017	11	62,065.893	26,688.243	2,108.561	260.291	22,767.481	0.000	0.000	0.000	0.000	0.000	0.000
2017	12	67,518.422	26,688.243	4,379.682	0.000	24,829.407	0.000	0.000	0.000	0.000	0.000	0.000
2018	1	71,916.568	26,688.243	8,032.921	0.000	25,479.249	95.065	0.000	0.000	0.000	0.000	0.000
2018	2	65,044.630	26,688.243	7,050.210	0.000	22,532.817	0.000	-2,847.729	0.000	0.000	0.000	0.000
2018	3	62,565.852	26,688.243	5,302.054	0.000	22,572.201	0.000	0.000	-3,617.736	0.000	0.000	0.000
2018	4	62,604.497	26,688.243	4,523.609	0.000	23,401.813	0.000	0.000	0.000	-3,630.258	0.000	0.000
2018	5	61,402.839	26,688.243	1,858.630	733.390	22,758.771	0.000	0.000	0.000	0.000	-2,257.286	0.000
2018	6	69,177.279	26,688.243	39.795	5,376.325	23,692.262	0.000	0.000	0.000	0.000	0.000	1,759.564
2018	7	76,339.585	26,688.243	0.000	9,883.421	23,524.927	0.000	0.000	0.000	0.000	0.000	0.000
2018	8	77,093.045	26,688.243	0.000	9,719.436	22,656.114	0.000	0.000	0.000	0.000	0.000	0.000
2018	9	78,369.874	26,688.243	0.000	9,310.661	23,465.267	0.000	0.000	0.000	0.000	0.000	0.000
2018	10	67,282.445	26,688.243	401.534	3,718.996	22,367.092	0.000	0.000	0.000	0.000	0.000	0.000
2018	11	62,828.148	26,688.243	2,838.779	401.697	22,658.112	0.000	0.000	0.000	0.000	0.000	0.000
2018	12	68,701.728	26,688.243	5,311.634	0.000	25,080.761	0.000	0.000	0.000	0.000	0.000	0.000
2019	1	69,185.165	26,688.243	5,380.105	0.000	25,400.662	95.065	0.000	0.000	0.000	0.000	0.000
2019	2	65,103.743	26,688.243	6,826.855	0.000	22,815.284	0.000	-2,847.729	0.000	0.000	0.000	0.000
2019	3	62,848.955	26,688.243	5,606.599	25.615	22,525.144	0.000	0.000	-3,617.736	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2019	4	61,249.004	26,688.243	3,267.323	162.023	23,140.583	0.000	0.000	0.000	-3,630.258	0.000	0.000
2019	5	60,874.735	26,688.243	1,154.363	818.980	22,849.344	0.000	0.000	0.000	0.000	-2,257.286	0.000
2019	6	67,816.035	26,688.243	209.758	3,914.157	23,623.223	0.000	0.000	0.000	0.000	0.000	1,759.564
2019	7	75,836.186	26,688.243	6.405	9,370.164	23,528.380	0.000	0.000	0.000	0.000	0.000	0.000
2019	8	77,597.389	26,688.243	0.000	10,292.094	22,587.800	0.000	0.000	0.000	0.000	0.000	0.000
2019	9	76,648.004	26,688.243	8.106	7,573.297	23,472.655	0.000	0.000	0.000	0.000	0.000	0.000
2019	10	65,999.879	26,688.243	381.609	2,248.337	22,575.109	0.000	0.000	0.000	0.000	0.000	0.000
2019	11	61,439.473	26,688.243	1,864.153	210.228	22,435.532	0.000	0.000	0.000	0.000	0.000	0.000
2019	12	67,218.122	26,688.243	4,320.687	0.698	24,587.405	0.000	0.000	0.000	0.000	0.000	0.000
2020	1	69,852.672	26,688.243	6,335.076	0.000	25,113.198	95.065	0.000	0.000	0.000	0.000	0.000
2020	2	64,779.232	26,688.243	6,795.711	0.000	22,521.918	0.000	-2,847.729	0.000	0.000	0.000	0.000
2020	3	62,498.778	26,688.243	5,574.052	25.391	22,207.739	0.000	0.000	-3,617.736	0.000	0.000	0.000
2020	4	60,867.317	26,688.243	3,243.992	160.392	22,783.858	0.000	0.000	0.000	-3,630.258	0.000	0.000
2020	5	60,484.455	26,688.243	1,145.110	810.024	22,477.273	0.000	0.000	0.000	0.000	-2,257.286	0.000
2020	6	67,370.057	26,688.243	207.948	3,868.969	23,224.243	0.000	0.000	0.000	0.000	0.000	1,759.564
2020	7	75,311.679	26,688.243	6.346	9,256.586	23,117.510	0.000	0.000	0.000	0.000	0.000	0.000
2020	8	77,073.831	26,688.243	0.000	10,165.971	22,190.365	0.000	0.000	0.000	0.000	0.000	0.000
2020	9	76,158.020	26,688.243	8.035	7,484.386	23,071.654	0.000	0.000	0.000	0.000	0.000	0.000
2020	10	65,591.954	26,688.243	378.356	2,222.614	22,196.160	0.000	0.000	0.000	0.000	0.000	0.000
2020	11	61,058.666	26,688.243	1,849.345	207.944	22,071.817	0.000	0.000	0.000	0.000	0.000	0.000
2020	12	66,796.883	26,688.243	4,288.125	0.691	24,198.734	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	69,441.455	26,688.243	6,297.139	0.000	24,739.918	95.065	0.000	0.000	0.000	0.000	0.000
2021	2	64,439.379	26,688.243	6,763.326	0.000	22,214.450	0.000	-2,847.729	0.000	0.000	0.000	0.000
2021	3	62,203.216	26,688.243	5,554.428	25.230	21,931.961	0.000	0.000	-3,617.736	0.000	0.000	0.000
2021	4	60,604.688	26,688.243	3,236.659	159.579	22,529.376	0.000	0.000	0.000	-3,630.258	0.000	0.000
2021	5	60,255.694	26,688.243	1,143.892	806.881	22,252.874	0.000	0.000	0.000	0.000	-2,257.286	0.000
2021	6	67,152.567	26,688.243	207.954	3,858.172	23,017.544	0.000	0.000	0.000	0.000	0.000	1,759.564
2021	7	75,110.595	26,688.243	6.352	9,239.510	22,933.495	0.000	0.000	0.000	0.000	0.000	0.000
2021	8	76,904.204	26,688.243	0.000	10,155.345	22,031.364	0.000	0.000	0.000	0.000	0.000	0.000
2021	9	76,004.451	26,688.243	8.054	7,481.374	22,921.078	0.000	0.000	0.000	0.000	0.000	0.000
2021	10	65,459.354	26,688.243	379.462	2,222.823	22,062.246	0.000	0.000	0.000	0.000	0.000	0.000
2021	11	60,939.611	26,688.243	1,855.420	208.039	21,946.593	0.000	0.000	0.000	0.000	0.000	0.000
2021	12	66,680.780	26,688.243	4,303.288	0.691	24,067.468	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2027	7	74,530.805	26,688.243	5.809	9,169.603	22,424.155	0.000	0.000	0.000	0.000	0.000	0.000
2027	8	76,336.000	26,688.243	0.000	10,077.852	21,540.653	0.000	0.000	0.000	0.000	0.000	0.000
2027	9	75,436.744	26,688.243	7.366	7,424.433	22,411.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	10	64,919.988	26,688.243	347.019	2,205.994	21,572.152	0.000	0.000	0.000	0.000	0.000	0.000
2027	11	60,293.905	26,688.243	1,696.933	206.482	21,460.930	0.000	0.000	0.000	0.000	0.000	0.000
2027	12	65,780.566	26,688.243	3,935.703	0.686	23,534.844	0.000	0.000	0.000	0.000	0.000	0.000
2028	1	68,181.319	26,688.243	5,657.960	0.000	24,118.961	95.065	0.000	0.000	0.000	0.000	0.000
2028	2	63,198.602	26,688.243	6,077.548	0.000	21,659.450	0.000	-2,847.729	0.000	0.000	0.000	0.000
2028	3	61,094.080	26,688.243	4,991.639	25.067	21,385.777	0.000	0.000	-3,617.736	0.000	0.000	0.000
2028	4	59,715.700	26,688.243	2,908.834	158.551	21,969.240	0.000	0.000	0.000	-3,630.258	0.000	0.000
2028	5	59,581.744	26,688.243	1,028.049	801.697	21,699.951	0.000	0.000	0.000	0.000	-2,257.286	0.000
2028	6	66,534.289	26,688.243	186.891	3,833.310	22,445.191	0.000	0.000	0.000	0.000	0.000	1,759.564
2028	7	74,478.556	26,688.243	5.708	9,179.507	22,362.103	0.000	0.000	0.000	0.000	0.000	0.000
2028	8	76,287.533	26,688.243	0.000	10,088.818	21,481.221	0.000	0.000	0.000	0.000	0.000	0.000
2028	9	75,382.504	26,688.243	7.238	7,432.423	22,348.898	0.000	0.000	0.000	0.000	0.000	0.000
2028	10	64,855.852	26,688.243	340.997	2,208.302	21,511.730	0.000	0.000	0.000	0.000	0.000	0.000
2028	11	60,203.509	26,688.243	1,667.409	206.689	21,399.851	0.000	0.000	0.000	0.000	0.000	0.000
2028	12	65,643.766	26,688.243	3,867.038	0.687	23,466.709	0.000	0.000	0.000	0.000	0.000	0.000
2029	1	68,028.926	26,688.243	5,562.538	0.000	24,061.990	95.065	0.000	0.000	0.000	0.000	0.000
2029	2	63,043.047	26,688.243	5,974.639	0.000	21,606.804	0.000	-2,847.729	0.000	0.000	0.000	0.000
2029	3	60,955.666	26,688.243	4,906.754	25.096	21,332.218	0.000	0.000	-3,617.736	0.000	0.000	0.000
2029	4	59,609.635	26,688.243	2,859.166	158.727	21,912.668	0.000	0.000	0.000	-3,630.258	0.000	0.000
2029	5	59,507.502	26,688.243	1,010.422	802.527	21,642.506	0.000	0.000	0.000	0.000	-2,257.286	0.000
2029	6	66,473.724	26,688.243	183.673	3,837.001	22,384.153	0.000	0.000	0.000	0.000	0.000	1,759.564
2029	7	74,424.264	26,688.243	5.610	9,187.698	22,299.718	0.000	0.000	0.000	0.000	0.000	0.000
2029	8	76,234.481	26,688.243	0.000	10,097.138	21,419.847	0.000	0.000	0.000	0.000	0.000	0.000
2029	9	75,322.917	26,688.243	7.112	7,438.118	22,283.742	0.000	0.000	0.000	0.000	0.000	0.000
2029	10	64,787.605	26,688.243	335.042	2,209.875	21,447.864	0.000	0.000	0.000	0.000	0.000	0.000
2029	11	60,109.911	26,688.243	1,638.214	206.826	21,335.311	0.000	0.000	0.000	0.000	0.000	0.000
2029	12	65,503.584	26,688.243	3,799.091	0.687	23,394.473	0.000	0.000	0.000	0.000	0.000	0.000
2030	1	67,775.329	26,688.243	5,463.809	0.000	23,907.122	95.065	0.000	0.000	0.000	0.000	0.000
2030	2	62,796.363	26,688.243	5,868.258	0.000	21,466.502	0.000	-2,847.729	0.000	0.000	0.000	0.000
2030	3	60,728.468	26,688.243	4,819.143	25.103	21,192.625	0.000	0.000	-3,617.736	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2030	4	59,414.132	26,688.243	2,807.990	158.758	21,768.309	0.000	0.000	0.000	-3,630.258	0.000	0.000
2030	5	59,346.168	26,688.243	992.301	802.659	21,499.161	0.000	0.000	0.000	0.000	-2,257.286	0.000
2030	6	66,322.117	26,688.243	180.374	3,837.534	22,235.312	0.000	0.000	0.000	0.000	0.000	1,759.564
2030	7	74,276.651	26,688.243	5.509	9,188.825	22,151.080	0.000	0.000	0.000	0.000	0.000	0.000
2030	8	76,092.723	26,688.243	0.000	10,098.305	21,276.923	0.000	0.000	0.000	0.000	0.000	0.000
2030	9	75,174.946	26,688.243	6.984	7,438.974	22,135.043	0.000	0.000	0.000	0.000	0.000	0.000
2030	10	64,638.865	26,688.243	329.019	2,210.144	21,304.879	0.000	0.000	0.000	0.000	0.000	0.000
2030	11	59,938.511	26,688.243	1,608.782	206.854	21,193.316	0.000	0.000	0.000	0.000	0.000	0.000
2030	12	65,280.393	26,688.243	3,730.943	0.687	23,239.430	0.000	0.000	0.000	0.000	0.000	0.000
2031	1	67,540.301	26,688.243	5,363.373	0.000	23,772.530	95.065	0.000	0.000	0.000	0.000	0.000
2031	2	62,568.670	26,688.243	5,760.606	0.000	21,346.461	0.000	-2,847.729	0.000	0.000	0.000	0.000
2031	3	60,522.560	26,688.243	4,730.919	25.120	21,074.925	0.000	0.000	-3,617.736	0.000	0.000	0.000
2031	4	59,242.889	26,688.243	2,756.691	158.875	21,648.248	0.000	0.000	0.000	-3,630.258	0.000	0.000
2031	5	59,210.894	26,688.243	974.208	803.278	21,381.360	0.000	0.000	0.000	0.000	-2,257.286	0.000
2031	6	66,200.807	26,688.243	177.091	3,840.620	22,114.198	0.000	0.000	0.000	0.000	0.000	1,759.564
2031	7	74,164.143	26,688.243	5.409	9,196.467	22,031.029	0.000	0.000	0.000	0.000	0.000	0.000
2031	8	75,986.521	26,688.243	0.000	10,106.935	21,162.091	0.000	0.000	0.000	0.000	0.000	0.000
2031	9	75,062.281	26,688.243	6.857	7,445.474	22,016.004	0.000	0.000	0.000	0.000	0.000	0.000
2031	10	64,520.630	26,688.243	323.058	2,212.110	21,190.639	0.000	0.000	0.000	0.000	0.000	0.000
2031	11	59,796.217	26,688.243	1,579.656	207.040	21,079.961	0.000	0.000	0.000	0.000	0.000	0.000
2031	12	65,088.466	26,688.243	3,663.385	0.688	23,115.060	0.000	0.000	0.000	0.000	0.000	0.000
2032	1	67,340.612	26,688.243	5,267.626	0.000	23,668.588	95.065	0.000	0.000	0.000	0.000	0.000
2032	2	62,372.376	26,688.243	5,657.742	0.000	21,253.030	0.000	-2,847.729	0.000	0.000	0.000	0.000
2032	3	60,345.772	26,688.243	4,646.423	25.152	20,982.601	0.000	0.000	-3,617.736	0.000	0.000	0.000
2032	4	59,098.776	26,688.243	2,707.429	159.073	21,553.199	0.000	0.000	0.000	-3,630.258	0.000	0.000
2032	5	59,100.443	26,688.243	956.792	804.275	21,287.329	0.000	0.000	0.000	0.000	-2,257.286	0.000
2032	6	66,105.065	26,688.243	173.925	3,845.371	22,016.873	0.000	0.000	0.000	0.000	0.000	1,759.564
2032	7	74,078.525	26,688.243	5.312	9,207.861	21,934.114	0.000	0.000	0.000	0.000	0.000	0.000
2032	8	75,906.163	26,688.243	0.000	10,119.525	21,069.142	0.000	0.000	0.000	0.000	0.000	0.000
2032	9	74,974.961	26,688.243	6.735	7,454.807	21,919.474	0.000	0.000	0.000	0.000	0.000	0.000
2032	10	64,424.980	26,688.243	317.290	2,214.907	21,097.959	0.000	0.000	0.000	0.000	0.000	0.000
2032	11	59,676.362	26,688.243	1,551.473	207.305	20,988.024	0.000	0.000	0.000	0.000	0.000	0.000
2032	12	64,923.017	26,688.243	3,598.124	0.689	23,014.872	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2033	1	67,161.343	26,688.243	5,177.864	0.000	23,579.081	95.065	0.000	0.000	0.000	0.000	0.000
2033	2	62,196.245	26,688.243	5,561.468	0.000	21,173.173	0.000	-2,847.729	0.000	0.000	0.000	0.000
2033	3	60,188.496	26,688.243	4,567.463	25.196	20,904.240	0.000	0.000	-3,617.736	0.000	0.000	0.000
2033	4	58,973.266	26,688.243	2,661.497	159.360	21,473.334	0.000	0.000	0.000	-3,630.258	0.000	0.000
2033	5	59,007.379	26,688.243	940.584	805.747	21,209.000	0.000	0.000	0.000	0.000	-2,257.286	0.000
2033	6	66,028.723	26,688.243	170.982	3,852.496	21,936.347	0.000	0.000	0.000	0.000	0.000	1,759.564
2033	7	74,015.819	26,688.243	5.222	9,225.085	21,854.274	0.000	0.000	0.000	0.000	0.000	0.000
2033	8	75,848.797	26,688.243	0.000	10,138.584	20,992.718	0.000	0.000	0.000	0.000	0.000	0.000
2033	9	74,909.625	26,688.243	6.621	7,468.909	21,840.149	0.000	0.000	0.000	0.000	0.000	0.000
2033	10	64,347.573	26,688.243	311.936	2,219.108	21,021.707	0.000	0.000	0.000	0.000	0.000	0.000
2033	11	59,574.759	26,688.243	1,525.295	207.698	20,912.206	0.000	0.000	0.000	0.000	0.000	0.000
2033	12	64,778.660	26,688.243	3,537.344	0.690	22,931.293	0.000	0.000	0.000	0.000	0.000	0.000
2034	1	67,002.325	26,688.243	5,090.177	0.000	23,507.751	95.065	0.000	0.000	0.000	0.000	0.000
2034	2	62,037.143	26,688.243	5,467.106	0.000	21,108.434	0.000	-2,847.729	0.000	0.000	0.000	0.000
2034	3	60,046.288	26,688.243	4,489.815	25.252	20,839.624	0.000	0.000	-3,617.736	0.000	0.000	0.000
2034	4	58,861.158	26,688.243	2,616.160	159.705	21,406.218	0.000	0.000	0.000	-3,630.258	0.000	0.000
2034	5	58,926.047	26,688.243	924.531	807.463	21,142.005	0.000	0.000	0.000	0.000	-2,257.286	0.000
2034	6	65,963.927	26,688.243	168.059	3,860.584	21,866.386	0.000	0.000	0.000	0.000	0.000	1,759.564
2034	7	73,964.572	26,688.243	5.133	9,244.207	21,783.995	0.000	0.000	0.000	0.000	0.000	0.000
2034	8	75,801.551	26,688.243	0.000	10,159.353	20,924.703	0.000	0.000	0.000	0.000	0.000	0.000
2034	9	74,853.282	26,688.243	6.507	7,484.013	21,768.816	0.000	0.000	0.000	0.000	0.000	0.000
2034	10	64,277.460	26,688.243	306.571	2,223.540	20,952.526	0.000	0.000	0.000	0.000	0.000	0.000
2034	11	59,479.537	26,688.243	1,499.025	208.108	20,842.844	0.000	0.000	0.000	0.000	0.000	0.000
2034	12	64,641.779	26,688.243	3,476.434	0.691	22,855.321	0.000	0.000	0.000	0.000	0.000	0.000
2035	1	66,854.096	26,688.243	5,005.256	0.000	23,444.442	95.065	0.000	0.000	0.000	0.000	0.000
2035	2	61,889.452	26,688.243	5,375.971	0.000	21,051.877	0.000	-2,847.729	0.000	0.000	0.000	0.000
2035	3	59,915.927	26,688.243	4,415.017	25.311	20,784.002	0.000	0.000	-3,617.736	0.000	0.000	0.000
2035	4	58,760.971	26,688.243	2,572.593	160.083	21,349.220	0.000	0.000	0.000	-3,630.258	0.000	0.000
2035	5	58,856.284	26,688.243	909.136	809.375	21,085.727	0.000	0.000	0.000	0.000	-2,257.286	0.000
2035	6	65,911.901	26,688.243	165.260	3,869.699	21,808.046	0.000	0.000	0.000	0.000	0.000	1,759.564
2035	7	73,927.747	26,688.243	5.047	9,265.898	21,725.564	0.000	0.000	0.000	0.000	0.000	0.000
2035	8	75,768.575	26,688.243	0.000	10,182.966	20,868.114	0.000	0.000	0.000	0.000	0.000	0.000
2035	9	74,810.929	26,688.243	6.399	7,501.211	21,709.374	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2038	7	73,836.298	26,688.243	4,793	9,331.871	21,568.397	0.000	0.000	0.000	0.000	0.000	0.000
2038	8	75,688.739	26,688.243	0.000	10,255.013	20,716.231	0.000	0.000	0.000	0.000	0.000	0.000
2038	9	74,704.568	26,688.243	6.076	7,553.997	21,550.550	0.000	0.000	0.000	0.000	0.000	0.000
2038	10	64,066.318	26,688.243	286.212	2,244.187	20,741.096	0.000	0.000	0.000	0.000	0.000	0.000
2038	11	59,170.176	26,688.243	1,399.386	210.027	20,631.204	0.000	0.000	0.000	0.000	0.000	0.000
2038	12	64,176.822	26,688.243	3,245.131	0.698	22,621.660	0.000	0.000	0.000	0.000	0.000	0.000
2039	1	66,323.362	26,688.243	4,673.875	0.000	23,245.089	95.065	0.000	0.000	0.000	0.000	0.000
2039	2	61,352.843	26,688.243	5,019.721	0.000	20,871.518	0.000	-2,847.729	0.000	0.000	0.000	0.000
2039	3	59,444.049	26,688.243	4,122.197	25.567	20,604.688	0.000	0.000	-3,617.736	0.000	0.000	0.000
2039	4	58,406.399	26,688.243	2,401.830	161.692	21,163.802	0.000	0.000	0.000	-3,630.258	0.000	0.000
2039	5	58,619.764	26,688.243	848.745	817.466	20,901.505	0.000	0.000	0.000	0.000	-2,257.286	0.000
2039	6	65,747.895	26,688.243	154.275	3,908.206	21,616.518	0.000	0.000	0.000	0.000	0.000	1,759.564
2039	7	73,827.605	26,688.243	4,712	9,357.738	21,533.918	0.000	0.000	0.000	0.000	0.000	0.000
2039	8	75,684.422	26,688.243	0.000	10,283.563	20,683.364	0.000	0.000	0.000	0.000	0.000	0.000
2039	9	74,691.712	26,688.243	5,973	7,575.133	21,516.661	0.000	0.000	0.000	0.000	0.000	0.000
2039	10	64,035.468	26,688.243	281.367	2,250.498	20,708.778	0.000	0.000	0.000	0.000	0.000	0.000
2039	11	59,115.253	26,688.243	1,375.718	210.621	20,599.355	0.000	0.000	0.000	0.000	0.000	0.000
2039	12	64,088.123	26,688.243	3,190.384	0.700	22,587.706	0.000	0.000	0.000	0.000	0.000	0.000
2040	1	66,154.062	26,688.243	4,593.710	0.000	23,155.953	95.065	0.000	0.000	0.000	0.000	0.000
2040	2	61,188.359	26,688.243	4,933.940	0.000	20,792.815	0.000	-2,847.729	0.000	0.000	0.000	0.000
2040	3	59,297.515	26,688.243	4,052.008	25.632	20,528.278	0.000	0.000	-3,617.736	0.000	0.000	0.000
2040	4	58,288.721	26,688.243	2,361.063	162.113	21,086.470	0.000	0.000	0.000	-3,630.258	0.000	0.000
2040	5	58,532.242	26,688.243	834.380	819.638	20,826.176	0.000	0.000	0.000	0.000	-2,257.286	0.000
2040	6	65,678.858	26,688.243	151.670	3,918.758	21,539.533	0.000	0.000	0.000	0.000	0.000	1,759.564
2040	7	73,777.152	26,688.243	4,632	9,383.323	21,457.960	0.000	0.000	0.000	0.000	0.000	0.000
2040	8	75,640.447	26,688.243	0.000	10,311.968	20,610.984	0.000	0.000	0.000	0.000	0.000	0.000
2040	9	74,638.118	26,688.243	5,872	7,596.287	21,442.013	0.000	0.000	0.000	0.000	0.000	0.000
2040	10	63,965.765	26,688.243	276.650	2,256.840	20,637.452	0.000	0.000	0.000	0.000	0.000	0.000
2040	11	59,022.362	26,688.243	1,352.685	211.219	20,528.898	0.000	0.000	0.000	0.000	0.000	0.000
2040	12	63,956.312	26,688.243	3,136.828	0.702	22,509.449	0.000	0.000	0.000	0.000	0.000	0.000
2041	1	66,022.944	26,688.243	4,520.226	0.000	23,098.321	95.065	0.000	0.000	0.000	0.000	0.000
2041	2	61,055.535	26,688.243	4,854.606	0.000	20,739.325	0.000	-2,847.729	0.000	0.000	0.000	0.000
2041	3	59,177.576	26,688.243	3,986.521	25.704	20,473.755	0.000	0.000	-3,617.736	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2041	4	58,193.179	26,688.243	2,322.723	162.556	21,028.826	0.000	0.000	0.000	-3,630.258	0.000	0.000
2041	5	58,462.320	26,688.243	820.770	821.812	20,767.690	0.000	0.000	0.000	0.000	-2,257.286	0.000
2041	6	65,624.521	26,688.243	149.186	3,928.880	21,477.558	0.000	0.000	0.000	0.000	0.000	1,759.564
2041	7	73,737.667	26,688.243	4.556	9,406.978	21,394.896	0.000	0.000	0.000	0.000	0.000	0.000
2041	8	75,604.108	26,688.243	0.000	10,337.375	20,549.238	0.000	0.000	0.000	0.000	0.000	0.000
2041	9	74,590.846	26,688.243	5.775	7,614.569	21,376.557	0.000	0.000	0.000	0.000	0.000	0.000
2041	10	63,902.408	26,688.243	272.056	2,262.153	20,573.376	0.000	0.000	0.000	0.000	0.000	0.000
2041	11	58,935.546	26,688.243	1,330.157	211.706	20,464.124	0.000	0.000	0.000	0.000	0.000	0.000
2041	12	63,832.293	26,688.243	3,084.496	0.703	22,437.761	0.000	0.000	0.000	0.000	0.000	0.000
2042	1	65,891.280	26,688.243	4,446.449	0.000	23,040.433	95.065	0.000	0.000	0.000	0.000	0.000
2042	2	60,923.774	26,688.243	4,775.269	0.000	20,686.901	0.000	-2,847.729	0.000	0.000	0.000	0.000
2042	3	59,060.186	26,688.243	3,921.281	25.768	20,421.540	0.000	0.000	-3,617.736	0.000	0.000	0.000
2042	4	58,101.360	26,688.243	2,284.655	162.955	20,974.675	0.000	0.000	0.000	-3,630.258	0.000	0.000
2042	5	58,396.805	26,688.243	807.297	823.808	20,713.653	0.000	0.000	0.000	0.000	-2,257.286	0.000
2042	6	65,574.990	26,688.243	146.733	3,938.305	21,421.055	0.000	0.000	0.000	0.000	0.000	1,759.564
2042	7	73,702.902	26,688.243	4.481	9,429.246	21,337.936	0.000	0.000	0.000	0.000	0.000	0.000
2042	8	75,572.769	26,688.243	0.000	10,361.476	20,493.797	0.000	0.000	0.000	0.000	0.000	0.000
2042	9	74,549.633	26,688.243	5.680	7,632.006	21,318.002	0.000	0.000	0.000	0.000	0.000	0.000
2042	10	63,845.725	26,688.243	267.542	2,267.234	20,516.126	0.000	0.000	0.000	0.000	0.000	0.000
2042	11	58,855.982	26,688.243	1,308.023	212.171	20,406.228	0.000	0.000	0.000	0.000	0.000	0.000
2042	12	63,716.082	26,688.243	3,033.002	0.705	22,373.042	0.000	0.000	0.000	0.000	0.000	0.000
2043	1	65,769.679	26,688.243	4,371.899	0.000	22,993.382	95.065	0.000	0.000	0.000	0.000	0.000
2043	2	60,799.866	26,688.243	4,694.909	0.000	20,643.354	0.000	-2,847.729	0.000	0.000	0.000	0.000
2043	3	58,949.708	26,688.243	3,855.045	25.825	20,377.241	0.000	0.000	-3,617.736	0.000	0.000	0.000
2043	4	58,016.090	26,688.243	2,245.915	163.305	20,927.796	0.000	0.000	0.000	-3,630.258	0.000	0.000
2043	5	58,337.144	26,688.243	793.556	825.523	20,666.018	0.000	0.000	0.000	0.000	-2,257.286	0.000
2043	6	65,529.856	26,688.243	144.226	3,946.261	21,370.471	0.000	0.000	0.000	0.000	0.000	1,759.564
2043	7	73,669.709	26,688.243	4.404	9,447.750	21,286.318	0.000	0.000	0.000	0.000	0.000	0.000
2043	8	75,541.793	26,688.243	0.000	10,381.225	20,443.072	0.000	0.000	0.000	0.000	0.000	0.000
2043	9	74,509.616	26,688.243	5.582	7,646.103	21,263.986	0.000	0.000	0.000	0.000	0.000	0.000
2043	10	63,792.014	26,688.243	262.912	2,271.293	20,462.986	0.000	0.000	0.000	0.000	0.000	0.000
2043	11	58,779.634	26,688.243	1,285.314	212.539	20,352.221	0.000	0.000	0.000	0.000	0.000	0.000
2043	12	63,603.964	26,688.243	2,980.314	0.706	22,313.611	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2044	1	65,648.032	26,688.243	4,297.923	0.000	22,945.711	95.065	0.000	0.000	0.000	0.000	0.000
2044	2	60,678.126	26,688.243	4,615.559	0.000	20,600.963	0.000	-2,847.729	0.000	0.000	0.000	0.000
2044	3	58,843.255	26,688.243	3,789.968	25.876	20,335.815	0.000	0.000	-3,617.736	0.000	0.000	0.000
2044	4	57,936.310	26,688.243	2,208.036	163.628	20,885.571	0.000	0.000	0.000	-3,630.258	0.000	0.000
2044	5	58,284.024	26,688.243	780.184	827.171	20,624.622	0.000	0.000	0.000	0.000	-2,257.286	0.000
2044	6	65,492.823	26,688.243	141.798	3,954.191	21,327.938	0.000	0.000	0.000	0.000	0.000	1,759.564
2044	7	73,646.581	26,688.243	4.330	9,466.834	21,244.179	0.000	0.000	0.000	0.000	0.000	0.000
2044	8	75,522.591	26,688.243	0.000	10,402.296	20,402.800	0.000	0.000	0.000	0.000	0.000	0.000
2044	9	74,483.512	26,688.243	5.488	7,661.717	21,222.361	0.000	0.000	0.000	0.000	0.000	0.000
2044	10	63,752.441	26,688.243	258.496	2,275.958	20,423.164	0.000	0.000	0.000	0.000	0.000	0.000
2044	11	58,719.144	26,688.243	1,263.742	212.978	20,312.864	0.000	0.000	0.000	0.000	0.000	0.000
2044	12	63,510.298	26,688.243	2,930.237	0.707	22,270.021	0.000	0.000	0.000	0.000	0.000	0.000
2045	1	65,544.565	26,688.243	4,225.040	0.000	22,915.128	95.065	0.000	0.000	0.000	0.000	0.000
2045	2	60,571.409	26,688.243	4,537.111	0.000	20,572.695	0.000	-2,847.729	0.000	0.000	0.000	0.000
2045	3	58,750.058	26,688.243	3,725.407	25.931	20,307.123	0.000	0.000	-3,617.736	0.000	0.000	0.000
2045	4	57,868.810	26,688.243	2,170.351	163.969	20,855.415	0.000	0.000	0.000	-3,630.258	0.000	0.000
2045	5	58,241.959	26,688.243	766.844	828.867	20,594.201	0.000	0.000	0.000	0.000	-2,257.286	0.000
2045	6	65,466.326	26,688.243	139.369	3,962.185	21,295.874	0.000	0.000	0.000	0.000	0.000	1,759.564
2045	7	73,632.937	26,688.243	4.256	9,485.735	21,211.708	0.000	0.000	0.000	0.000	0.000	0.000
2045	8	75,511.467	26,688.243	0.000	10,422.825	20,371.147	0.000	0.000	0.000	0.000	0.000	0.000
2045	9	74,464.935	26,688.243	5.394	7,676.658	21,188.939	0.000	0.000	0.000	0.000	0.000	0.000
2045	10	63,719.779	26,688.243	254.045	2,280.347	20,390.563	0.000	0.000	0.000	0.000	0.000	0.000
2045	11	58,664.919	26,688.243	1,241.958	213.385	20,280.017	0.000	0.000	0.000	0.000	0.000	0.000
2045	12	63,423.467	26,688.243	2,879.691	0.709	22,233.734	0.000	0.000	0.000	0.000	0.000	0.000
2046	1	65,449.891	26,688.243	4,154.390	0.000	22,891.104	95.065	0.000	0.000	0.000	0.000	0.000
2046	2	60,473.728	26,688.243	4,461.199	0.000	20,550.926	0.000	-2,847.729	0.000	0.000	0.000	0.000
2046	3	58,666.049	26,688.243	3,663.039	25.984	20,285.429	0.000	0.000	-3,617.736	0.000	0.000	0.000
2046	4	57,810.276	26,688.243	2,133.993	164.307	20,832.902	0.000	0.000	0.000	-3,630.258	0.000	0.000
2046	5	58,208.325	26,688.243	753.989	830.565	20,571.723	0.000	0.000	0.000	0.000	-2,257.286	0.000
2046	6	65,448.547	26,688.243	137.031	3,970.254	21,272.365	0.000	0.000	0.000	0.000	0.000	1,759.564
2046	7	73,628.364	26,688.243	4.184	9,504.928	21,188.014	0.000	0.000	0.000	0.000	0.000	0.000
2046	8	75,509.354	26,688.243	0.000	10,443.763	20,348.096	0.000	0.000	0.000	0.000	0.000	0.000
2046	9	74,455.800	26,688.243	5.303	7,691.948	21,164.604	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2049	7	73,680.573	26,688.243	3.981	9,561.838	21,183.516	0.000	0.000	0.000	0.000	0.000	0.000
2049	8	75,567.418	26,688.243	0.000	10,506.244	20,343.679	0.000	0.000	0.000	0.000	0.000	0.000
2049	9	74,496.789	26,688.243	5.045	7,737.919	21,159.880	0.000	0.000	0.000	0.000	0.000	0.000
2049	10	63,693.199	26,688.243	237.634	2,298.504	20,362.238	0.000	0.000	0.000	0.000	0.000	0.000
2049	11	58,557.878	26,688.243	1,161.709	215.080	20,251.529	0.000	0.000	0.000	0.000	0.000	0.000
2049	12	63,206.215	26,688.243	2,693.624	0.714	22,202.544	0.000	0.000	0.000	0.000	0.000	0.000
2050	1	65,205.331	26,688.243	3,890.552	0.000	22,910.382	95.065	0.000	0.000	0.000	0.000	0.000
2050	2	60,207.597	26,688.243	4,177.856	0.000	20,568.137	0.000	-2,847.729	0.000	0.000	0.000	0.000
2050	3	58,450.569	26,688.243	3,430.385	26.198	20,302.390	0.000	0.000	-3,617.736	0.000	0.000	0.000
2050	4	57,693.210	26,688.243	1,998.429	165.654	20,850.053	0.000	0.000	0.000	-3,630.258	0.000	0.000
2050	5	58,184.007	26,688.243	706.086	837.371	20,588.503	0.000	0.000	0.000	0.000	-2,257.286	0.000
2050	6	65,489.718	26,688.243	128.325	4,002.784	21,289.711	0.000	0.000	0.000	0.000	0.000	1,759.564
2050	7	73,723.495	26,688.243	3.919	9,582.881	21,205.457	0.000	0.000	0.000	0.000	0.000	0.000
2050	8	75,612.209	26,688.243	0.000	10,529.569	20,365.145	0.000	0.000	0.000	0.000	0.000	0.000
2050	9	74,536.816	26,688.243	4.966	7,755.259	21,182.646	0.000	0.000	0.000	0.000	0.000	0.000
2050	10	63,717.044	26,688.243	233.913	2,303.706	20,384.601	0.000	0.000	0.000	0.000	0.000	0.000
2050	11	58,562.930	26,688.243	1,143.546	215.572	20,274.252	0.000	0.000	0.000	0.000	0.000	0.000
2050	12	63,189.638	26,688.243	2,651.578	0.716	22,228.010	0.000	0.000	0.000	0.000	0.000	0.000
2051	1	65,168.559	26,688.243	3,829.144	0.000	22,935.017	95.065	0.000	0.000	0.000	0.000	0.000
2051	2	60,164.360	26,688.243	4,112.012	0.000	20,590.745	0.000	-2,847.729	0.000	0.000	0.000	0.000
2051	3	58,419.479	26,688.243	3,376.406	26.255	20,325.221	0.000	0.000	-3,617.736	0.000	0.000	0.000
2051	4	57,686.086	26,688.243	1,967.027	166.020	20,873.965	0.000	0.000	0.000	-3,630.258	0.000	0.000
2051	5	58,198.897	26,688.243	695.007	839.238	20,612.604	0.000	0.000	0.000	0.000	-2,257.286	0.000
2051	6	65,522.184	26,688.243	126.315	4,011.810	21,315.162	0.000	0.000	0.000	0.000	0.000	1,759.564
2051	7	73,771.185	26,688.243	3.857	9,604.737	21,231.353	0.000	0.000	0.000	0.000	0.000	0.000
2051	8	75,661.940	26,688.243	0.000	10,553.873	20,390.572	0.000	0.000	0.000	0.000	0.000	0.000
2051	9	74,581.945	26,688.243	4.889	7,773.389	21,209.722	0.000	0.000	0.000	0.000	0.000	0.000
2051	10	63,745.549	26,688.243	230.275	2,309.163	20,411.287	0.000	0.000	0.000	0.000	0.000	0.000
2051	11	58,572.898	26,688.243	1,125.796	216.090	20,301.452	0.000	0.000	0.000	0.000	0.000	0.000
2051	12	63,179.109	26,688.243	2,610.505	0.718	22,258.553	0.000	0.000	0.000	0.000	0.000	0.000
2052	1	65,138.354	26,688.243	3,769.152	0.000	22,964.805	95.065	0.000	0.000	0.000	0.000	0.000
2052	2	60,127.183	26,688.243	4,047.671	0.000	20,617.908	0.000	-2,847.729	0.000	0.000	0.000	0.000
2052	3	58,394.039	26,688.243	3,323.648	26.315	20,352.479	0.000	0.000	-3,617.736	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2052	4	57,684.153	26,688.243	1,936.327	166.404	20,902.348	0.000	0.000	0.000	-3,630.258	0.000	0.000
2052	5	58,218.464	26,688.243	684.173	841.197	20,641.046	0.000	0.000	0.000	0.000	-2,257.286	0.000
2052	6	65,559.533	26,688.243	124.349	4,021.261	21,345.027	0.000	0.000	0.000	0.000	0.000	1,759.564
2052	7	73,824.189	26,688.243	3.797	9,627.579	21,261.575	0.000	0.000	0.000	0.000	0.000	0.000
2052	8	75,716.808	26,688.243	0.000	10,579.226	20,420.088	0.000	0.000	0.000	0.000	0.000	0.000
2052	9	74,631.994	26,688.243	4.813	7,792.264	21,240.972	0.000	0.000	0.000	0.000	0.000	0.000
2052	10	63,778.285	26,688.243	226.713	2,314.833	20,441.916	0.000	0.000	0.000	0.000	0.000	0.000
2052	11	58,587.097	26,688.243	1,108.413	216.627	20,332.498	0.000	0.000	0.000	0.000	0.000	0.000
2052	12	63,173.565	26,688.243	2,570.272	0.720	22,293.240	0.000	0.000	0.000	0.000	0.000	0.000
2053	1	65,113.491	26,688.243	3,710.373	0.000	22,998.720	95.065	0.000	0.000	0.000	0.000	0.000
2053	2	60,094.859	26,688.243	3,984.605	0.000	20,648.650	0.000	-2,847.729	0.000	0.000	0.000	0.000
2053	3	58,373.027	26,688.243	3,271.913	26.377	20,383.140	0.000	0.000	-3,617.736	0.000	0.000	0.000
2053	4	57,686.168	26,688.243	1,906.209	166.798	20,934.086	0.000	0.000	0.000	-3,630.258	0.000	0.000
2053	5	58,241.453	26,688.243	673.541	843.201	20,672.663	0.000	0.000	0.000	0.000	-2,257.286	0.000
2053	6	65,600.253	26,688.243	122.418	4,030.900	21,378.038	0.000	0.000	0.000	0.000	0.000	1,759.564
2053	7	73,880.591	26,688.243	3.738	9,650.813	21,294.802	0.000	0.000	0.000	0.000	0.000	0.000
2053	8	75,774.803	26,688.243	0.000	10,604.945	20,452.363	0.000	0.000	0.000	0.000	0.000	0.000
2053	9	74,684.986	26,688.243	4.738	7,811.355	21,274.947	0.000	0.000	0.000	0.000	0.000	0.000
2053	10	63,813.614	26,688.243	223.209	2,320.552	20,475.030	0.000	0.000	0.000	0.000	0.000	0.000
2053	11	58,603.909	26,688.243	1,091.307	217.166	20,365.876	0.000	0.000	0.000	0.000	0.000	0.000
2053	12	63,171.071	26,688.243	2,530.664	0.721	22,330.352	0.000	0.000	0.000	0.000	0.000	0.000
2054	1	65,092.040	26,688.243	3,652.519	0.000	23,035.123	95.065	0.000	0.000	0.000	0.000	0.000
2054	2	60,065.760	26,688.243	3,922.531	0.000	20,681.626	0.000	-2,847.729	0.000	0.000	0.000	0.000
2054	3	58,355.033	26,688.243	3,220.992	26.439	20,416.006	0.000	0.000	-3,617.736	0.000	0.000	0.000
2054	4	57,690.923	26,688.243	1,876.565	167.194	20,968.090	0.000	0.000	0.000	-3,630.258	0.000	0.000
2054	5	58,266.852	26,688.243	663.075	845.212	20,706.518	0.000	0.000	0.000	0.000	-2,257.286	0.000
2054	6	65,643.349	26,688.243	120.518	4,040.571	21,413.363	0.000	0.000	0.000	0.000	0.000	1,759.564
2054	7	73,939.377	26,688.243	3.681	9,674.124	21,330.335	0.000	0.000	0.000	0.000	0.000	0.000
2054	8	75,835.099	26,688.243	0.000	10,630.750	20,486.855	0.000	0.000	0.000	0.000	0.000	0.000
2054	9	74,740.347	26,688.243	4.665	7,830.510	21,311.227	0.000	0.000	0.000	0.000	0.000	0.000
2054	10	63,851.236	26,688.243	219.760	2,326.289	20,510.363	0.000	0.000	0.000	0.000	0.000	0.000
2054	11	58,623.197	26,688.243	1,074.468	217.708	20,401.462	0.000	0.000	0.000	0.000	0.000	0.000
2054	12	63,171.614	26,688.243	2,491.671	0.723	22,369.886	0.000	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2002	10	0.000	0.000	0.000	2,485.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	11	0.000	0.000	0.000	0.000	-1,379.773	0.000	0.000	0.000	0.000	0.000	0.000
2002	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	7	4,621.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	8	0.000	6,408.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	9	0.000	0.000	7,284.612	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	10	0.000	0.000	0.000	2,485.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	11	0.000	0.000	0.000	0.000	-1,379.773	0.000	0.000	0.000	0.000	0.000	0.000
2003	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	7	4,621.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	0.000	6,408.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	0.000	0.000	7,284.612	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	10	0.000	0.000	0.000	2,485.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	11	0.000	0.000	0.000	0.000	-1,379.773	0.000	0.000	0.000	0.000	0.000	0.000
2004	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2005	7	4,621.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	8	0.000	6,408.162	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	9	0.000	0.000	7,284.612	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	10	0.000	0.000	0.000	2,485.490	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	11	0.000	0.000	0.000	0.000	-1,379.773	0.000	0.000	0.000	2,700.974	0.000	0.000
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	7	4,621.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	8	0.000	6,408.162	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	9	0.000	0.000	7,284.612	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	10	0.000	0.000	0.000	2,485.490	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	11	0.000	0.000	0.000	0.000	-1,379.773	0.000	0.000	0.000	2,700.974	0.000	0.000
2006	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,700.974	0.000	0.000
2007	1	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	2	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	3	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	4	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	5	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	6	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	0.000	0.000	0.000	0.000	0.000
2007	12	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	1	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	2	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	3	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2008	4	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	5	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	6	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	0.000	0.000	0.000	0.000	0.000
2008	12	0.000	0.000	0.000	0.000	0.000	7,612.481	0.000	0.000	0.000	0.000	0.000
2009	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2009	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	0.000	0.000	0.000	0.000
2010	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2010	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2010	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2010	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2010	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2011	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2011	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	0.000
2012	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	5,779.563	2,541.326
2012	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2012	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2013	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2013	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2014	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2015	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2016	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2016	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2017	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2018	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2019	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2019	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2020	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2021	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2022	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2022	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2023	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2024	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2024	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2025	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2026	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2027	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2027	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2028	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2029	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2030	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2030	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2031	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2032	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2033	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2033	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2034	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2035	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2035	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2036	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2037	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2038	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2038	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2039	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2040	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2041	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2041	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2042	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2043	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2044	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2044	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2045	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2046	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2046	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2047	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2048	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2049	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2049	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2050	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2051	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	D07on	D09on	Aug10on	d0506	12-Jul	D12on
2052	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2052	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2053	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	1	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	2	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	3	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	4	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	5	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	6	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	7	4,621.905	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	8	0.000	6,408.162	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	9	0.000	0.000	7,284.612	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	10	0.000	0.000	0.000	2,485.490	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	11	0.000	0.000	0.000	0.000	-1,379.773	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326
2054	12	0.000	0.000	0.000	0.000	0.000	7,612.481	1,895.363	-1,467.035	0.000	0.000	2,541.326

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2000	1	0.000	0.000	0.000	0.000	7,869.454	0.000	56,736.937	64,606.390	61,044.889
2000	2	0.000	0.000	0.000	0.000	9,689.496	0.000	50,930.987	60,620.482	56,730.970
2000	3	0.000	0.000	0.000	0.000	4,837.278	117.417	49,960.199	54,914.895	53,322.888
2000	4	0.000	0.000	0.000	0.000	3,470.212	71.636	50,076.919	53,618.766	51,092.464
2000	5	0.000	0.000	0.000	0.000	1,594.931	1,606.464	51,200.892	54,402.287	53,782.928
2000	6	0.000	0.000	0.000	0.000	194.479	3,613.943	56,483.049	60,291.471	58,730.319
2000	7	0.000	0.000	0.000	0.000	18.968	7,349.737	58,744.740	66,113.445	62,705.253
2000	8	0.000	0.000	0.000	0.000	0.000	7,523.717	59,701.373	67,225.090	64,237.565
2000	9	0.000	0.000	0.000	0.000	29.320	8,805.720	61,376.242	70,211.281	67,782.252
2000	10	0.000	0.000	0.000	0.000	679.579	2,193.580	55,379.757	58,252.916	58,393.299
2000	11	0.000	0.000	0.000	0.000	1,828.344	148.639	50,791.647	52,768.630	55,034.347
2000	12	0.000	0.000	0.000	0.000	7,892.673	0.000	55,288.003	63,180.676	61,982.633
2001	1	0.000	0.000	0.000	0.000	11,054.204	0.000	56,120.979	67,175.182	64,458.592
2001	2	0.000	0.000	0.000	0.000	8,834.540	0.000	50,295.552	59,130.091	59,913.538
2001	3	0.000	0.000	0.000	0.000	7,281.537	0.000	49,267.903	56,549.439	55,197.014
2001	4	0.000	0.000	0.000	0.000	4,621.780	145.605	49,347.010	54,114.395	52,491.082
2001	5	0.000	0.000	0.000	0.000	829.006	1,755.530	50,472.494	53,057.030	55,121.961
2001	6	0.000	0.000	0.000	0.000	281.596	2,954.903	55,740.687	58,977.186	60,321.169
2001	7	0.000	0.000	0.000	0.000	31.894	8,257.809	58,070.606	66,360.310	65,291.049
2001	8	0.000	0.000	0.000	0.000	0.000	13,739.411	59,133.279	72,872.690	71,839.079
2001	9	0.000	0.000	0.000	0.000	9.686	7,793.239	60,896.568	68,699.493	68,984.160
2001	10	0.000	0.000	0.000	0.000	538.678	1,143.829	55,044.199	56,726.705	57,138.582
2001	11	0.000	0.000	0.000	0.000	1,725.938	60.590	50,599.686	52,386.214	52,680.609
2001	12	0.000	0.000	0.000	0.000	2,858.019	0.000	55,247.697	58,105.716	58,403.802
2002	1	0.000	0.000	0.000	0.000	7,365.837	0.000	56,283.668	63,649.504	63,109.914
2002	2	0.000	0.000	0.000	0.000	6,352.904	0.000	50,588.211	56,941.114	56,764.506
2002	3	0.000	0.000	0.000	0.000	6,413.305	0.000	49,697.428	56,110.733	56,608.224
2002	4	0.000	0.000	0.000	0.000	5,016.101	570.055	49,909.732	55,495.889	57,282.373
2002	5	0.000	0.000	0.000	0.000	1,855.072	1,228.750	51,133.579	54,217.401	53,996.313
2002	6	0.000	0.000	0.000	0.000	706.807	3,039.422	56,522.981	60,269.211	60,145.781
2002	7	0.000	0.000	0.000	0.000	0.000	14,129.911	58,899.691	73,029.602	71,819.092
2002	8	0.000	0.000	0.000	0.000	0.000	15,282.712	59,962.885	75,245.597	73,361.530
2002	9	0.000	0.000	0.000	0.000	0.000	10,123.301	61,756.138	71,879.439	71,185.805

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2002	10	0.000	0.000	0.000	0.000	465.008	4,312.859	55,840.674	60,618.541	61,028.079
2002	11	0.000	0.000	0.000	0.000	3,381.479	268.050	51,330.649	54,980.179	55,714.825
2002	12	0.000	0.000	0.000	0.000	6,683.650	0.000	55,934.897	62,618.547	62,975.287
2003	1	0.000	0.000	0.000	0.000	8,044.555	0.000	56,859.878	64,904.434	65,864.773
2003	2	0.000	0.000	0.000	0.000	10,130.811	0.000	51,023.652	61,154.462	63,111.128
2003	3	0.000	0.000	0.000	0.000	8,604.375	0.000	50,042.853	58,647.228	58,824.270
2003	4	0.000	0.000	0.000	0.000	3,589.269	185.270	50,169.065	53,943.603	56,375.862
2003	5	0.000	0.000	0.000	0.000	1,419.074	448.837	51,316.173	53,184.084	54,794.668
2003	6	0.000	0.000	0.000	0.000	372.118	837.477	56,648.683	57,858.277	58,224.130
2003	7	0.000	0.000	0.000	0.000	19.490	8,128.584	59,259.890	67,407.963	67,881.288
2003	8	0.000	0.000	0.000	0.000	0.000	8,752.835	60,198.794	68,951.629	69,656.125
2003	9	0.000	0.000	0.000	0.000	1.280	9,273.225	61,371.096	70,645.601	69,562.521
2003	10	0.000	0.000	0.000	0.000	847.885	1,520.519	55,695.381	58,063.785	58,086.225
2003	11	0.000	0.000	0.000	0.000	2,160.889	45.343	51,088.983	53,295.214	53,949.940
2003	12	0.000	0.000	0.000	0.000	4,923.709	0.000	56,210.206	61,133.915	63,093.948
2004	1	0.000	0.000	0.000	0.000	7,200.054	0.000	57,156.557	64,356.611	65,262.412
2004	2	0.000	0.000	0.000	0.000	10,242.789	0.000	51,228.783	61,471.572	62,796.496
2004	3	0.000	0.000	0.000	0.000	6,562.990	0.000	49,604.848	56,167.838	57,696.181
2004	4	0.000	0.000	0.000	0.000	3,527.897	278.187	50,824.585	54,630.669	56,098.970
2004	5	0.000	0.000	0.000	0.000	1,248.305	2,555.409	52,262.619	56,066.333	58,240.027
2004	6	0.000	0.000	0.000	0.000	140.509	4,785.675	57,029.121	61,955.305	62,304.787
2004	7	0.000	0.000	0.000	0.000	1.273	7,164.643	59,200.996	66,366.911	65,598.180
2004	8	0.000	0.000	0.000	0.000	0.000	7,191.654	60,214.311	67,405.964	66,162.160
2004	9	0.000	0.000	0.000	0.000	0.000	6,020.380	62,473.498	68,493.878	70,317.610
2004	10	0.000	0.000	0.000	0.000	506.109	2,153.799	56,243.932	58,903.841	61,212.633
2004	11	0.000	0.000	0.000	0.000	1,772.877	128.327	51,552.237	53,453.441	55,320.057
2004	12	0.000	0.000	0.000	0.000	4,816.099	9.170	56,860.595	61,685.865	64,458.398
2005	1	0.000	0.000	0.000	0.000	8,127.762	0.000	59,730.534	67,858.296	66,961.940
2005	2	0.000	0.000	0.000	0.000	8,851.462	0.000	53,954.969	62,806.431	62,307.545
2005	3	0.000	0.000	0.000	0.000	7,425.444	0.000	54,510.552	61,935.996	63,312.860
2005	4	0.000	0.000	0.000	0.000	4,302.445	98.757	53,513.996	57,915.197	58,788.440
2005	5	0.000	0.000	0.000	0.000	1,525.222	608.785	53,614.641	55,748.648	54,773.708
2005	6	0.000	0.000	0.000	0.000	224.159	4,222.071	59,957.549	64,403.779	65,772.112

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2005	7	0.000	0.000	0.000	0.000	0.000	13,561.140	61,517.180	75,078.320	73,945.570
2005	8	0.000	0.000	0.000	0.000	0.000	14,338.488	63,029.556	77,368.044	76,812.971
2005	9	0.000	0.000	0.000	0.000	0.000	9,465.432	65,540.316	75,005.748	76,297.475
2005	10	0.000	0.000	0.000	0.000	302.898	4,528.782	59,097.344	63,929.024	63,956.934
2005	11	0.000	0.000	0.000	0.000	2,009.460	379.531	54,833.678	57,222.670	55,991.545
2005	12	0.000	0.000	0.000	0.000	6,844.587	0.000	58,547.764	65,392.351	64,231.043
2006	1	0.000	0.000	0.000	0.000	7,186.977	0.000	60,108.483	67,295.460	67,056.859
2006	2	0.000	0.000	0.000	0.000	6,061.719	0.000	54,280.167	60,341.887	60,240.912
2006	3	0.000	0.000	0.000	0.000	6,793.257	0.000	52,484.466	59,277.723	58,364.803
2006	4	0.000	0.000	0.000	0.000	3,939.379	54.764	52,713.301	56,707.443	55,903.701
2006	5	0.000	0.000	0.000	0.000	940.612	98.966	54,682.160	55,721.737	56,515.795
2006	6	0.000	0.000	0.000	0.000	484.432	3,842.646	59,699.271	64,026.349	64,070.345
2006	7	0.000	0.000	0.000	0.000	0.000	8,181.503	62,656.434	70,837.937	72,516.578
2006	8	0.000	0.000	0.000	0.000	0.000	13,492.988	63,295.211	76,788.199	75,592.757
2006	9	0.000	0.000	0.000	0.000	19.799	5,778.040	64,500.171	70,298.011	71,147.637
2006	10	0.000	0.000	0.000	0.000	696.837	658.025	59,223.156	60,578.018	60,922.504
2006	11	0.000	0.000	0.000	0.000	3,170.062	25.276	54,969.619	58,164.956	58,349.412
2006	12	0.000	0.000	0.000	0.000	4,601.686	0.000	58,806.021	63,407.707	64,276.485
2007	1	0.000	0.000	0.000	0.000	5,266.778	0.000	65,282.982	70,549.759	67,281.388
2007	2	0.000	0.000	0.000	0.000	9,230.923	0.000	59,484.092	68,715.015	66,137.287
2007	3	0.000	0.000	0.000	0.000	8,312.143	15.281	57,330.641	65,658.065	62,649.614
2007	4	0.000	0.000	0.000	0.000	3,323.310	403.046	58,994.045	62,720.401	60,947.701
2007	5	0.000	0.000	0.000	0.000	1,296.796	991.148	59,424.454	61,712.398	60,260.593
2007	6	0.000	0.000	0.000	0.000	79.455	6,282.891	64,307.736	70,670.082	70,260.604
2007	7	0.000	0.000	0.000	0.000	0.000	10,706.970	67,206.676	77,913.647	77,911.671
2007	8	0.000	0.000	0.000	0.000	0.000	11,392.250	66,765.548	78,157.797	78,899.669
2007	9	0.000	0.000	0.000	0.000	16.712	9,790.043	70,966.476	80,773.231	81,035.066
2007	10	0.000	0.000	0.000	0.000	170.918	5,188.578	63,229.059	68,588.554	68,307.768
2007	11	0.000	0.000	0.000	0.000	1,862.764	1,061.216	60,013.609	62,937.589	62,630.756
2007	12	0.000	0.000	0.000	0.000	5,774.598	0.000	64,418.057	70,192.655	69,745.231
2008	1	0.000	0.000	0.000	0.000	7,004.534	0.000	65,031.046	72,035.581	73,007.217
2008	2	0.000	0.000	0.000	0.000	8,643.279	0.000	58,710.735	67,354.014	68,364.207
2008	3	0.000	0.000	0.000	0.000	7,908.152	0.000	57,443.178	65,351.330	65,473.303

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2008	4	0.000	0.000	0.000	0.000	4,412.738	9.866	57,964.272	62,386.876	62,608.776
2008	5	0.000	0.000	0.000	0.000	1,316.164	250.457	58,656.462	60,223.083	60,400.800
2008	6	0.000	0.000	0.000	0.000	384.347	4,026.875	63,803.669	68,214.890	67,853.809
2008	7	0.000	0.000	0.000	0.000	0.146	8,287.276	66,478.366	74,765.788	75,461.537
2008	8	0.000	0.000	0.000	0.000	0.000	10,355.117	67,379.801	77,734.918	79,555.530
2008	9	0.000	0.000	0.000	0.000	0.000	6,600.291	68,510.389	75,110.681	77,706.844
2008	10	0.000	0.000	0.000	0.000	289.522	2,019.634	62,817.681	65,126.837	67,377.467
2008	11	0.000	0.000	0.000	0.000	2,207.187	219.141	58,908.743	61,335.072	63,454.350
2008	12	0.000	0.000	0.000	0.000	6,364.082	0.000	61,577.820	67,941.902	68,838.976
2009	1	0.000	0.000	0.000	0.000	8,108.824	0.000	64,829.664	72,938.487	74,462.760
2009	2	0.000	0.000	0.000	0.000	9,206.977	0.000	58,786.936	67,993.913	68,553.690
2009	3	0.000	0.000	0.000	0.000	5,876.779	0.000	57,208.245	63,085.024	63,917.868
2009	4	0.000	0.000	0.000	0.000	3,243.061	18.433	57,995.343	61,256.837	61,742.286
2009	5	0.000	0.000	0.000	0.000	1,237.245	571.007	59,010.598	60,818.850	61,244.273
2009	6	0.000	0.000	0.000	0.000	187.194	2,351.209	63,321.396	65,859.798	64,829.248
2009	7	0.000	0.000	0.000	0.000	0.135	6,992.292	65,930.895	72,923.321	72,155.016
2009	8	0.000	0.000	0.000	0.000	0.000	6,820.013	66,700.952	73,520.965	73,187.401
2009	9	0.000	0.000	0.000	0.000	0.000	4,742.743	69,084.415	73,827.158	73,067.942
2009	10	0.000	0.000	0.000	0.000	783.993	1,078.701	63,413.493	65,276.186	64,546.860
2009	11	0.000	0.000	0.000	0.000	1,858.646	0.000	59,602.640	61,461.286	62,275.665
2009	12	0.000	0.000	0.000	0.000	4,376.718	0.000	63,424.662	67,801.380	68,496.222
2010	1	0.000	0.000	0.000	0.000	7,578.151	0.000	63,947.205	71,525.356	72,218.790
2010	2	0.000	0.000	0.000	0.000	7,689.681	0.000	58,741.014	66,430.695	67,006.064
2010	3	0.000	0.000	0.000	0.000	6,040.486	0.000	57,060.399	63,100.885	62,881.005
2010	4	0.000	0.000	0.000	0.000	2,259.912	530.056	58,512.647	61,302.615	60,935.719
2010	5	0.000	0.000	0.000	0.000	842.415	561.509	59,071.969	60,475.892	58,830.831
2010	6	0.000	0.000	0.000	0.000	180.662	5,595.197	64,083.506	69,859.365	69,493.829
2010	7	0.000	0.000	0.000	0.000	0.000	11,235.182	66,929.734	78,164.916	77,777.461
2010	8	0.000	0.000	0.000	0.000	0.000	14,851.270	66,720.709	81,571.979	82,799.257
2010	9	0.000	0.000	0.000	0.000	0.000	9,910.175	68,082.886	77,993.061	76,109.552
2010	10	0.000	0.000	0.000	0.000	333.770	2,323.167	62,470.473	65,127.409	64,720.587
2010	11	0.000	0.000	0.000	0.000	1,765.478	224.992	58,269.635	60,260.105	59,205.184
2010	12	0.000	0.000	0.000	0.000	5,377.567	0.000	62,604.417	67,981.984	65,693.355

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2011	1	0.000	0.000	0.000	0.000	7,664.971	0.000	62,196.744	69,861.714	71,333.541
2011	2	-3,272.904	0.000	0.000	0.000	8,373.423	0.000	53,339.491	61,712.914	61,712.914
2011	3	0.000	3,927.329	0.000	0.000	5,980.571	0.000	59,121.782	65,102.353	65,102.353
2011	4	0.000	0.000	0.000	0.000	3,731.293	151.082	55,277.133	59,159.508	58,548.685
2011	5	0.000	0.000	0.000	0.000	1,326.868	756.017	57,809.933	59,892.818	60,106.941
2011	6	0.000	0.000	0.000	0.000	174.641	5,589.103	62,050.631	67,814.375	67,813.012
2011	7	0.000	0.000	0.000	0.000	0.000	10,438.947	65,385.867	75,824.814	77,276.588
2011	8	0.000	0.000	0.000	0.000	0.000	15,666.566	65,384.545	81,051.111	81,753.553
2011	9	0.000	0.000	0.000	0.000	30.014	7,912.130	67,050.401	74,992.545	74,858.462
2011	10	0.000	0.000	0.000	0.000	349.774	1,278.444	61,546.482	63,174.700	63,849.091
2011	11	0.000	0.000	0.000	0.000	1,553.399	211.129	57,498.401	59,262.929	60,418.914
2011	12	0.000	0.000	0.000	0.000	3,573.477	0.000	60,376.356	63,949.833	63,432.164
2012	1	0.000	0.000	0.000	0.000	5,190.554	0.000	63,265.015	68,455.569	68,729.931
2012	2	0.000	0.000	0.000	0.000	5,897.165	0.000	58,043.740	63,940.905	62,834.833
2012	3	0.000	0.000	0.000	0.000	4,182.952	475.775	57,214.260	61,872.986	62,129.085
2012	4	0.000	0.000	0.000	0.000	1,222.267	1,432.933	57,735.954	60,391.154	60,220.758
2012	5	0.000	0.000	0.000	0.000	1,012.406	977.681	58,863.488	60,853.576	60,488.266
2012	6	0.000	0.000	0.000	0.000	66.960	6,194.409	63,450.189	69,711.558	70,242.310
2012	7	0.000	0.000	0.000	0.000	5.968	15,667.772	72,360.154	88,033.895	88,033.895
2012	8	0.000	0.000	0.000	0.000	0.000	13,841.475	66,912.510	80,753.984	80,772.404
2012	9	0.000	0.000	0.000	0.000	11.546	7,128.909	68,902.439	76,042.894	75,207.904
2012	10	0.000	0.000	0.000	0.000	563.852	1,185.459	63,262.633	65,011.944	62,515.816
2012	11	0.000	0.000	0.000	0.000	2,240.010	275.928	59,431.123	61,947.061	60,847.433
2012	12	0.000	0.000	0.000	0.000	3,463.965	0.000	62,618.630	66,082.595	65,161.033
2013	1	0.000	0.000	0.000	0.000	5,485.857	0.000	63,130.599	68,616.455	68,216.509
2013	2	0.000	0.000	0.000	0.000	6,512.578	0.000	57,451.770	63,964.349	63,998.954
2013	3	0.000	0.000	0.000	0.000	5,889.505	0.000	56,743.547	62,633.052	63,183.748
2013	4	0.000	0.000	0.000	0.000	4,257.447	0.000	57,675.652	61,933.099	62,619.440
2013	5	0.000	0.000	0.000	0.000	1,224.538	1,026.587	58,130.021	60,381.146	61,513.732
2013	6	0.000	0.000	0.000	0.000	233.914	4,244.063	63,247.372	67,725.350	66,747.581
2013	7	0.000	0.000	0.000	0.000	3.364	9,364.095	66,013.028	75,380.487	75,968.759
2013	8	0.000	0.000	0.000	0.000	0.000	7,630.225	66,816.507	74,446.732	74,176.972
2013	9	0.000	0.000	0.000	0.000	0.374	8,615.993	68,496.492	77,112.859	78,603.007

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2013	10	0.000	0.000	0.000	0.000	164.991	3,235.201	62,947.891	66,348.082	66,412.949
2013	11	0.000	0.000	0.000	0.000	1,998.535	291.733	59,340.252	61,630.520	61,967.577
2013	12	0.000	0.000	0.000	0.000	5,131.520	0.000	62,324.113	67,455.633	67,923.761
2014	1	0.000	0.000	0.000	0.000	7,546.937	0.000	63,355.556	70,902.494	72,933.719
2014	2	0.000	0.000	0.000	0.000	8,842.735	0.000	57,158.222	66,000.957	66,759.477
2014	3	0.000	0.000	0.000	0.000	7,675.940	0.000	56,578.676	64,254.615	66,097.603
2014	4	0.000	0.000	0.000	0.000	4,145.035	27.308	56,672.634	60,844.978	61,165.277
2014	5	0.000	0.000	0.000	0.000	1,127.112	795.726	58,894.348	60,817.187	61,052.462
2014	6	0.000	0.000	0.000	0.000	257.372	5,131.908	62,730.716	68,119.996	66,408.586
2014	7	0.000	0.000	0.000	0.000	0.000	8,778.076	65,807.144	74,585.220	72,078.898
2014	8	0.000	0.000	0.000	0.000	0.000	6,581.969	66,453.352	73,035.320	70,682.057
2014	9	0.000	0.000	0.000	0.000	24.643	9,002.061	68,385.260	77,411.964	76,399.582
2014	10	0.000	0.000	0.000	0.000	356.869	1,360.997	62,769.303	64,487.168	62,083.846
2014	11	0.000	0.000	0.000	0.000	2,105.506	35.755	58,832.783	60,974.044	60,339.624
2014	12	0.000	0.000	0.000	0.000	5,151.341	0.000	62,327.929	67,479.270	68,675.302
2015	1	0.000	0.000	0.000	0.000	6,201.903	0.000	62,943.582	69,145.486	72,656.614
2015	2	0.000	0.000	0.000	0.000	7,488.242	0.000	57,173.154	64,661.396	66,248.380
2015	3	0.000	0.000	0.000	0.000	7,799.589	0.000	56,335.591	64,135.180	65,753.863
2015	4	0.000	0.000	0.000	0.000	3,225.465	11.169	57,295.280	60,531.914	61,657.382
2015	5	0.000	0.000	0.000	0.000	982.638	1,038.591	57,995.254	60,016.483	60,062.687
2015	6	0.000	0.000	0.000	0.000	162.691	4,635.265	62,711.938	67,509.894	67,014.212
2015	7	0.000	0.000	0.000	0.000	1.499	6,459.231	65,667.168	72,127.897	71,181.122
2015	8	0.000	0.000	1,038.956	0.000	0.000	10,363.841	67,666.104	78,029.945	78,003.322
2015	9	0.000	0.000	1,038.956	0.000	1.626	7,850.614	69,203.393	77,055.633	76,521.972
2015	10	0.000	0.000	1,038.956	0.000	249.585	2,318.473	63,753.151	66,321.208	65,977.680
2015	11	0.000	0.000	1,038.956	0.000	1,242.024	54.678	59,584.582	60,881.284	60,029.934
2015	12	0.000	0.000	1,038.956	0.000	3,239.009	0.000	63,535.366	66,774.375	66,018.865
2016	1	0.000	0.000	1,038.956	0.000	5,045.333	0.000	64,140.897	69,186.231	69,030.559
2016	2	0.000	0.000	1,038.956	0.000	6,828.730	0.000	58,439.044	65,267.774	65,037.148
2016	3	0.000	0.000	1,038.956	0.000	4,932.270	0.000	57,364.242	62,296.512	61,573.894
2016	4	0.000	0.000	1,038.956	0.000	2,779.619	4.898	58,358.475	61,142.992	60,555.865
2016	5	0.000	0.000	1,038.956	0.000	1,237.010	198.267	59,017.955	60,453.231	58,721.355
2016	6	0.000	0.000	1,038.956	0.000	246.712	4,776.315	63,895.791	68,918.818	69,552.811

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2016	7	0.000	0.000	1,038.956	0.000	0.000	8,481.549	66,714.546	75,196.095	78,849.074
2016	8	0.000	0.000	1,038.956	0.000	0.000	12,505.161	67,545.700	80,050.861	82,978.274
2016	9	0.000	0.000	1,038.956	0.000	0.000	9,638.590	69,053.602	78,692.193	79,295.020
2016	10	0.000	0.000	1,038.956	0.000	104.573	3,381.488	63,983.987	67,470.048	69,257.379
2016	11	0.000	0.000	1,038.956	0.000	1,151.030	324.823	59,912.525	61,388.378	61,629.372
2016	12	0.000	0.000	1,038.956	0.000	4,334.547	4.218	63,163.576	67,502.341	67,014.009
2017	1	0.000	0.000	1,038.956	0.000	6,729.845	0.000	63,983.268	70,713.113	72,128.296
2017	2	0.000	0.000	1,038.956	0.000	5,411.715	0.000	58,295.899	63,707.615	63,868.419
2017	3	0.000	0.000	1,038.956	0.000	4,083.872	0.000	57,348.787	61,432.659	60,858.132
2017	4	0.000	0.000	1,038.956	0.000	3,128.985	87.403	57,612.140	60,828.528	59,763.421
2017	5	0.000	0.000	1,038.956	0.000	997.189	748.193	58,719.806	60,465.188	58,476.379
2017	6	0.000	0.000	1,038.956	0.000	223.346	3,524.503	63,952.846	67,700.694	68,092.756
2017	7	0.000	0.000	1,038.956	0.000	0.000	7,919.168	66,483.336	74,402.504	76,614.851
2017	8	0.000	0.000	1,038.956	0.000	0.000	7,800.527	67,608.136	75,408.663	78,076.864
2017	9	0.000	0.000	1,038.956	0.000	0.000	3,971.962	69,343.309	73,315.271	74,528.598
2017	10	0.000	0.000	1,038.956	0.000	49.331	4,548.647	63,733.654	68,331.633	69,280.943
2017	11	0.000	0.000	1,038.956	0.000	2,108.561	260.291	59,697.041	62,065.893	60,989.181
2017	12	0.000	0.000	1,038.956	0.000	4,379.682	0.000	63,138.740	67,518.422	67,007.844
2018	1	0.000	0.000	1,038.956	0.000	8,032.921	0.000	63,883.647	71,916.568	73,011.473
2018	2	0.000	0.000	1,038.956	0.000	7,050.210	0.000	57,994.420	65,044.630	64,873.749
2018	3	0.000	0.000	1,038.956	0.000	5,302.054	0.000	57,263.798	62,565.852	62,145.659
2018	4	0.000	0.000	1,038.956	0.000	4,523.609	0.000	58,080.888	62,604.497	62,731.157
2018	5	0.000	0.000	1,038.956	0.000	1,858.630	733.390	58,810.819	61,402.839	61,526.491
2018	6	0.000	0.000	1,038.956	0.000	39.795	5,376.325	63,761.159	69,177.279	71,186.275
2018	7	0.000	0.000	1,038.956	0.000	0.000	9,883.421	66,456.165	76,339.585	77,786.776
2018	8	0.000	0.000	1,038.956	0.000	0.000	9,719.436	67,373.609	77,093.045	78,165.044
2018	9	0.000	0.000	1,038.956	0.000	0.000	9,310.661	69,059.212	78,369.874	77,319.406
2018	10	0.000	0.000	1,038.956	0.000	401.534	3,718.996	63,161.915	67,282.445	64,550.403
2018	11	0.000	0.000	1,038.956	0.000	2,838.779	401.697	59,587.672	62,828.148	58,414.889
2018	12	0.000	0.000	1,038.956	0.000	5,311.634	0.000	63,390.094	68,701.728	67,478.537
2019	1	0.000	0.000	1,038.956	0.000	5,380.105	0.000	63,805.060	69,185.165	66,107.680
2019	2	0.000	0.000	1,038.956	0.000	6,826.855	0.000	58,276.888	65,103.743	0.000
2019	3	0.000	0.000	1,038.956	0.000	5,606.599	25.615	57,216.741	62,848.955	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2019	4	0.000	0.000	1,038.956	0.000	3,267.323	162.023	57,819.658	61,249.004	
2019	5	0.000	0.000	1,038.956	0.000	1,154.363	818.980	58,901.391	60,874.735	
2019	6	0.000	0.000	1,038.956	0.000	209.758	3,914.157	63,692.120	67,816.035	
2019	7	0.000	0.000	1,038.956	0.000	6.405	9,370.164	66,459.617	75,836.186	
2019	8	0.000	0.000	1,038.956	0.000	0.000	10,292.094	67,305.295	77,597.389	
2019	9	0.000	0.000	1,038.956	0.000	8.106	7,573.297	69,066.601	76,648.004	
2019	10	0.000	0.000	1,038.956	0.000	381.609	2,248.337	63,369.933	65,999.879	
2019	11	0.000	0.000	1,038.956	0.000	1,864.153	210.228	59,365.092	61,439.473	
2019	12	0.000	0.000	1,038.956	0.000	4,320.687	0.698	62,896.738	67,218.122	
2020	1	0.000	0.000	1,038.956	0.000	6,335.076	0.000	63,517.595	69,852.672	
2020	2	0.000	0.000	1,038.956	0.000	6,795.711	0.000	57,983.522	64,779.232	
2020	3	0.000	0.000	1,038.956	0.000	5,574.052	25.391	56,899.335	62,498.778	
2020	4	0.000	0.000	1,038.956	0.000	3,243.992	160.392	57,462.932	60,867.317	
2020	5	0.000	0.000	1,038.956	0.000	1,145.110	810.024	58,529.321	60,484.455	
2020	6	0.000	0.000	1,038.956	0.000	207.948	3,868.969	63,293.140	67,370.057	
2020	7	0.000	0.000	1,038.956	0.000	6.346	9,256.586	66,048.747	75,311.679	
2020	8	0.000	0.000	1,038.956	0.000	0.000	10,165.971	66,907.860	77,073.831	
2020	9	0.000	0.000	1,038.956	0.000	8.035	7,484.386	68,665.599	76,158.020	
2020	10	0.000	0.000	1,038.956	0.000	378.356	2,222.614	62,990.984	65,591.954	
2020	11	0.000	0.000	1,038.956	0.000	1,849.345	207.944	59,001.377	61,058.666	
2020	12	0.000	0.000	1,038.956	0.000	4,288.125	0.691	62,508.067	66,796.883	
2021	1	0.000	0.000	1,038.956	0.000	6,297.139	0.000	63,144.315	69,441.455	
2021	2	0.000	0.000	1,038.956	0.000	6,763.326	0.000	57,676.054	64,439.379	
2021	3	0.000	0.000	1,038.956	0.000	5,554.428	25.230	56,623.557	62,203.216	
2021	4	0.000	0.000	1,038.956	0.000	3,236.659	159.579	57,208.451	60,604.688	
2021	5	0.000	0.000	1,038.956	0.000	1,143.892	806.881	58,304.922	60,255.694	
2021	6	0.000	0.000	1,038.956	0.000	207.954	3,858.172	63,086.441	67,152.567	
2021	7	0.000	0.000	1,038.956	0.000	6.352	9,239.510	65,864.733	75,110.595	
2021	8	0.000	0.000	1,038.956	0.000	0.000	10,155.345	66,748.859	76,904.204	
2021	9	0.000	0.000	1,038.956	0.000	8.054	7,481.374	68,515.023	76,004.451	
2021	10	0.000	0.000	1,038.956	0.000	379.462	2,222.823	62,857.069	65,459.354	
2021	11	0.000	0.000	1,038.956	0.000	1,855.420	208.039	58,876.152	60,939.611	
2021	12	0.000	0.000	1,038.956	0.000	4,303.288	0.691	62,376.801	66,680.780	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2022	1	0.000	0.000	1,038.956	0.000	6,337.855	0.000	63,052.337	69,390.192	
2022	2	0.000	0.000	1,038.956	0.000	6,807.371	0.000	57,594.491	64,401.863	
2022	3	0.000	0.000	1,038.956	0.000	5,590.387	25.257	56,542.196	62,157.839	
2022	4	0.000	0.000	1,038.956	0.000	3,257.232	159.728	57,122.255	60,539.215	
2022	5	0.000	0.000	1,038.956	0.000	1,150.945	807.482	58,215.599	60,174.026	
2022	6	0.000	0.000	1,038.956	0.000	209.182	3,860.050	62,988.120	67,057.352	
2022	7	0.000	0.000	1,038.956	0.000	6.388	9,241.018	65,759.388	75,006.794	
2022	8	0.000	0.000	1,038.956	0.000	0.000	10,153.155	66,639.351	76,792.507	
2022	9	0.000	0.000	1,038.956	0.000	8.093	7,476.816	68,392.114	75,877.023	
2022	10	0.000	0.000	1,038.956	0.000	381.127	2,220.547	62,729.660	65,331.334	
2022	11	0.000	0.000	1,038.956	0.000	1,862.784	207.739	58,740.317	60,810.840	
2022	12	0.000	0.000	1,038.956	0.000	4,319.246	0.690	62,221.631	66,541.567	
2023	1	0.000	0.000	1,038.956	0.000	6,199.006	0.000	62,917.758	69,116.764	
2023	2	0.000	0.000	1,038.956	0.000	6,657.643	0.000	57,471.685	64,129.329	
2023	3	0.000	0.000	1,038.956	0.000	5,467.233	25.130	56,420.185	61,912.548	
2023	4	0.000	0.000	1,038.956	0.000	3,185.546	158.926	56,997.420	60,341.891	
2023	5	0.000	0.000	1,038.956	0.000	1,125.719	803.501	58,094.356	60,023.576	
2023	6	0.000	0.000	1,038.956	0.000	204.630	3,841.632	62,866.395	66,912.657	
2023	7	0.000	0.000	1,038.956	0.000	6.250	9,199.084	65,643.476	74,848.810	
2023	8	0.000	0.000	1,038.956	0.000	0.000	10,110.400	66,535.200	76,645.601	
2023	9	0.000	0.000	1,038.956	0.000	7.925	7,448.707	68,294.090	75,750.722	
2023	10	0.000	0.000	1,038.956	0.000	373.402	2,213.327	62,646.485	65,233.214	
2023	11	0.000	0.000	1,038.956	0.000	1,826.073	207.182	58,670.031	60,703.287	
2023	12	0.000	0.000	1,038.956	0.000	4,235.606	0.688	62,152.908	66,389.202	
2024	1	0.000	0.000	1,038.956	0.000	6,086.385	0.000	62,871.926	68,958.311	
2024	2	0.000	0.000	1,038.956	0.000	6,538.481	0.000	57,436.554	63,975.036	
2024	3	0.000	0.000	1,038.956	0.000	5,370.828	25.111	56,391.365	61,787.304	
2024	4	0.000	0.000	1,038.956	0.000	3,130.160	158.849	56,973.410	60,262.419	
2024	5	0.000	0.000	1,038.956	0.000	1,106.388	803.290	58,075.459	59,985.137	
2024	6	0.000	0.000	1,038.956	0.000	201.151	3,841.288	62,850.785	66,893.224	
2024	7	0.000	0.000	1,038.956	0.000	6.145	9,199.312	65,630.515	74,835.971	
2024	8	0.000	0.000	1,038.956	0.000	0.000	10,111.208	66,523.953	76,635.161	
2024	9	0.000	0.000	1,038.956	0.000	7.792	7,449.351	68,282.536	75,739.678	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2024	10	0.000	0.000	1,038.956	0.000	367.104	2,213.432	62,634.514	65,215.050	
2024	11	0.000	0.000	1,038.956	0.000	1,795.139	207.177	58,656.508	60,658.824	
2024	12	0.000	0.000	1,038.956	0.000	4,163.193	0.688	62,134.301	66,298.183	
2025	1	0.000	0.000	1,038.956	0.000	5,982.668	0.000	62,859.518	68,842.186	
2025	2	0.000	0.000	1,038.956	0.000	6,425.596	0.000	57,420.405	63,846.001	
2025	3	0.000	0.000	1,038.956	0.000	5,276.855	25.105	56,370.298	61,672.258	
2025	4	0.000	0.000	1,038.956	0.000	3,074.671	158.770	56,946.544	60,179.985	
2025	5	0.000	0.000	1,038.956	0.000	1,086.528	802.709	58,043.924	59,933.162	
2025	6	0.000	0.000	1,038.956	0.000	197.499	3,837.701	62,813.373	66,848.572	
2025	7	0.000	0.000	1,038.956	0.000	6.032	9,189.006	65,589.014	74,784.051	
2025	8	0.000	0.000	1,038.956	0.000	0.000	10,098.224	66,480.514	76,578.737	
2025	9	0.000	0.000	1,038.956	0.000	7.646	7,438.706	68,234.055	75,680.407	
2025	10	0.000	0.000	1,038.956	0.000	360.216	2,209.996	62,585.156	65,155.367	
2025	11	0.000	0.000	1,038.956	0.000	1,761.266	206.833	58,605.092	60,573.191	
2025	12	0.000	0.000	1,038.956	0.000	4,084.304	0.687	62,075.983	66,160.974	
2026	1	0.000	0.000	1,038.956	0.000	5,870.072	0.000	62,724.965	68,595.038	
2026	2	0.000	0.000	1,038.956	0.000	6,304.321	0.000	57,298.397	63,602.718	
2026	3	0.000	0.000	1,038.956	0.000	5,177.023	25.070	56,248.856	61,450.948	
2026	4	0.000	0.000	1,038.956	0.000	3,016.381	158.543	56,820.921	59,995.846	
2026	5	0.000	0.000	1,038.956	0.000	1,065.894	801.535	57,919.115	59,786.544	
2026	6	0.000	0.000	1,038.956	0.000	193.743	3,831.979	62,683.647	66,709.369	
2026	7	0.000	0.000	1,038.956	0.000	5.917	9,175.081	65,459.231	74,640.230	
2026	8	0.000	0.000	1,038.956	0.000	0.000	10,082.691	66,355.361	76,438.051	
2026	9	0.000	0.000	1,038.956	0.000	7.500	7,427.074	68,103.283	75,537.858	
2026	10	0.000	0.000	1,038.956	0.000	353.331	2,206.494	62,458.837	65,018.662	
2026	11	0.000	0.000	1,038.956	0.000	1,727.575	206.502	58,479.055	60,413.131	
2026	12	0.000	0.000	1,038.956	0.000	4,006.272	0.686	61,938.352	65,945.309	
2027	1	0.000	0.000	1,038.956	0.000	5,760.398	0.000	62,601.668	68,362.066	
2027	2	0.000	0.000	1,038.956	0.000	6,186.857	0.000	57,188.832	63,375.690	
2027	3	0.000	0.000	1,038.956	0.000	5,080.871	25.046	56,141.988	61,247.904	
2027	4	0.000	0.000	1,038.956	0.000	2,960.569	158.405	56,712.725	59,831.699	
2027	5	0.000	0.000	1,038.956	0.000	1,046.257	800.899	57,814.039	59,661.195	
2027	6	0.000	0.000	1,038.956	0.000	190.191	3,829.292	62,577.062	66,596.545	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2027	7	0.000	0.000	1,038.956	0.000	5.809	9,169.603	65,355.393	74,530.805	
2027	8	0.000	0.000	1,038.956	0.000	0.000	10,077.852	66,258.148	76,336.000	
2027	9	0.000	0.000	1,038.956	0.000	7.366	7,424.433	68,004.945	75,436.744	
2027	10	0.000	0.000	1,038.956	0.000	347.019	2,205.994	62,366.975	64,919.988	
2027	11	0.000	0.000	1,038.956	0.000	1,696.933	206.482	58,390.490	60,293.905	
2027	12	0.000	0.000	1,038.956	0.000	3,935.703	0.686	61,844.177	65,780.566	
2028	1	0.000	0.000	1,038.956	0.000	5,657.960	0.000	62,523.359	68,181.319	
2028	2	0.000	0.000	1,038.956	0.000	6,077.548	0.000	57,121.054	63,198.602	
2028	3	0.000	0.000	1,038.956	0.000	4,991.639	25.067	56,077.374	61,094.080	
2028	4	0.000	0.000	1,038.956	0.000	2,908.834	158.551	56,648.314	59,715.700	
2028	5	0.000	0.000	1,038.956	0.000	1,028.049	801.697	57,751.998	59,581.744	
2028	6	0.000	0.000	1,038.956	0.000	186.891	3,833.310	62,514.088	66,534.289	
2028	7	0.000	0.000	1,038.956	0.000	5.708	9,179.507	65,293.341	74,478.556	
2028	8	0.000	0.000	1,038.956	0.000	0.000	10,088.818	66,198.716	76,287.533	
2028	9	0.000	0.000	1,038.956	0.000	7.238	7,432.423	67,942.843	75,382.504	
2028	10	0.000	0.000	1,038.956	0.000	340.997	2,208.302	62,306.553	64,855.852	
2028	11	0.000	0.000	1,038.956	0.000	1,667.409	206.689	58,329.411	60,203.509	
2028	12	0.000	0.000	1,038.956	0.000	3,867.038	0.687	61,776.042	65,643.766	
2029	1	0.000	0.000	1,038.956	0.000	5,562.538	0.000	62,466.388	68,028.926	
2029	2	0.000	0.000	1,038.956	0.000	5,974.639	0.000	57,068.408	63,043.047	
2029	3	0.000	0.000	1,038.956	0.000	4,906.754	25.096	56,023.815	60,955.666	
2029	4	0.000	0.000	1,038.956	0.000	2,859.166	158.727	56,591.742	59,609.635	
2029	5	0.000	0.000	1,038.956	0.000	1,010.422	802.527	57,694.554	59,507.502	
2029	6	0.000	0.000	1,038.956	0.000	183.673	3,837.001	62,453.050	66,473.724	
2029	7	0.000	0.000	1,038.956	0.000	5.610	9,187.698	65,230.956	74,424.264	
2029	8	0.000	0.000	1,038.956	0.000	0.000	10,097.138	66,137.342	76,234.481	
2029	9	0.000	0.000	1,038.956	0.000	7.112	7,438.118	67,877.687	75,322.917	
2029	10	0.000	0.000	1,038.956	0.000	335.042	2,209.875	62,242.687	64,787.605	
2029	11	0.000	0.000	1,038.956	0.000	1,638.214	206.826	58,264.871	60,109.911	
2029	12	0.000	0.000	1,038.956	0.000	3,799.091	0.687	61,703.806	65,503.584	
2030	1	0.000	0.000	1,038.956	0.000	5,463.809	0.000	62,311.520	67,775.329	
2030	2	0.000	0.000	1,038.956	0.000	5,868.258	0.000	56,928.105	62,796.363	
2030	3	0.000	0.000	1,038.956	0.000	4,819.143	25.103	55,884.222	60,728.468	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2030	4	0.000	0.000	1,038.956	0.000	2,807.990	158.758	56,447.384	59,414.132	
2030	5	0.000	0.000	1,038.956	0.000	992.301	802.659	57,551.208	59,346.168	
2030	6	0.000	0.000	1,038.956	0.000	180.374	3,837.534	62,304.209	66,322.117	
2030	7	0.000	0.000	1,038.956	0.000	5.509	9,188.825	65,082.317	74,276.651	
2030	8	0.000	0.000	1,038.956	0.000	0.000	10,098.305	65,994.418	76,092.723	
2030	9	0.000	0.000	1,038.956	0.000	6.984	7,438.974	67,728.988	75,174.946	
2030	10	0.000	0.000	1,038.956	0.000	329.019	2,210.144	62,099.702	64,638.865	
2030	11	0.000	0.000	1,038.956	0.000	1,608.782	206.854	58,122.876	59,938.511	
2030	12	0.000	0.000	1,038.956	0.000	3,730.943	0.687	61,548.763	65,280.393	
2031	1	0.000	0.000	1,038.956	0.000	5,363.373	0.000	62,176.928	67,540.301	
2031	2	0.000	0.000	1,038.956	0.000	5,760.606	0.000	56,808.065	62,568.670	
2031	3	0.000	0.000	1,038.956	0.000	4,730.919	25.120	55,766.522	60,522.560	
2031	4	0.000	0.000	1,038.956	0.000	2,756.691	158.875	56,327.323	59,242.889	
2031	5	0.000	0.000	1,038.956	0.000	974.208	803.278	57,433.407	59,210.894	
2031	6	0.000	0.000	1,038.956	0.000	177.091	3,840.620	62,183.095	66,200.807	
2031	7	0.000	0.000	1,038.956	0.000	5.409	9,196.467	64,962.267	74,164.143	
2031	8	0.000	0.000	1,038.956	0.000	0.000	10,106.935	65,879.586	75,986.521	
2031	9	0.000	0.000	1,038.956	0.000	6.857	7,445.474	67,609.949	75,062.281	
2031	10	0.000	0.000	1,038.956	0.000	323.058	2,212.110	61,985.462	64,520.630	
2031	11	0.000	0.000	1,038.956	0.000	1,579.656	207.040	58,009.521	59,796.217	
2031	12	0.000	0.000	1,038.956	0.000	3,663.385	0.688	61,424.393	65,088.466	
2032	1	0.000	0.000	1,038.956	0.000	5,267.626	0.000	62,072.986	67,340.612	
2032	2	0.000	0.000	1,038.956	0.000	5,657.742	0.000	56,714.634	62,372.376	
2032	3	0.000	0.000	1,038.956	0.000	4,646.423	25.152	55,674.198	60,345.772	
2032	4	0.000	0.000	1,038.956	0.000	2,707.429	159.073	56,232.274	59,098.776	
2032	5	0.000	0.000	1,038.956	0.000	956.792	804.275	57,339.376	59,100.443	
2032	6	0.000	0.000	1,038.956	0.000	173.925	3,845.371	62,085.770	66,105.065	
2032	7	0.000	0.000	1,038.956	0.000	5.312	9,207.861	64,865.352	74,078.525	
2032	8	0.000	0.000	1,038.956	0.000	0.000	10,119.525	65,786.637	75,906.163	
2032	9	0.000	0.000	1,038.956	0.000	6.735	7,454.807	67,513.420	74,974.961	
2032	10	0.000	0.000	1,038.956	0.000	317.290	2,214.907	61,892.783	64,424.980	
2032	11	0.000	0.000	1,038.956	0.000	1,551.473	207.305	57,917.584	59,676.362	
2032	12	0.000	0.000	1,038.956	0.000	3,598.124	0.689	61,324.205	64,923.017	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2033	1	0.000	0.000	1,038.956	0.000	5,177.864	0.000	61,983.478	67,161.343	67,161.343
2033	2	0.000	0.000	1,038.956	0.000	5,561.468	0.000	56,634.777	62,196.245	62,196.245
2033	3	0.000	0.000	1,038.956	0.000	4,567.463	25.196	55,595.837	60,188.496	60,188.496
2033	4	0.000	0.000	1,038.956	0.000	2,661.497	159.360	56,152.408	58,973.266	58,973.266
2033	5	0.000	0.000	1,038.956	0.000	940.584	805.747	57,261.048	59,007.379	59,007.379
2033	6	0.000	0.000	1,038.956	0.000	170.982	3,852.496	62,005.244	66,028.723	66,028.723
2033	7	0.000	0.000	1,038.956	0.000	5.222	9,225.085	64,785.511	74,015.819	74,015.819
2033	8	0.000	0.000	1,038.956	0.000	0.000	10,138.584	65,710.213	75,848.797	75,848.797
2033	9	0.000	0.000	1,038.956	0.000	6.621	7,468.909	67,434.094	74,909.625	74,909.625
2033	10	0.000	0.000	1,038.956	0.000	311.936	2,219.108	61,816.530	64,347.573	64,347.573
2033	11	0.000	0.000	1,038.956	0.000	1,525.295	207.698	57,841.766	59,574.759	59,574.759
2033	12	0.000	0.000	1,038.956	0.000	3,537.344	0.690	61,240.626	64,778.660	64,778.660
2034	1	0.000	0.000	1,038.956	0.000	5,090.177	0.000	61,912.148	67,002.325	67,002.325
2034	2	0.000	0.000	1,038.956	0.000	5,467.106	0.000	56,570.038	62,037.143	62,037.143
2034	3	0.000	0.000	1,038.956	0.000	4,489.815	25.252	55,531.221	60,046.288	60,046.288
2034	4	0.000	0.000	1,038.956	0.000	2,616.160	159.705	56,085.292	58,861.158	58,861.158
2034	5	0.000	0.000	1,038.956	0.000	924.531	807.463	57,194.052	58,926.047	58,926.047
2034	6	0.000	0.000	1,038.956	0.000	168.059	3,860.584	61,935.283	65,963.927	65,963.927
2034	7	0.000	0.000	1,038.956	0.000	5.133	9,244.207	64,715.233	73,964.572	73,964.572
2034	8	0.000	0.000	1,038.956	0.000	0.000	10,159.353	65,642.198	75,801.551	75,801.551
2034	9	0.000	0.000	1,038.956	0.000	6.507	7,484.013	67,362.762	74,853.282	74,853.282
2034	10	0.000	0.000	1,038.956	0.000	306.571	2,223.540	61,747.349	64,277.460	64,277.460
2034	11	0.000	0.000	1,038.956	0.000	1,499.025	208.108	57,772.404	59,479.537	59,479.537
2034	12	0.000	0.000	1,038.956	0.000	3,476.434	0.691	61,164.654	64,641.779	64,641.779
2035	1	0.000	0.000	1,038.956	0.000	5,005.256	0.000	61,848.840	66,854.096	66,854.096
2035	2	0.000	0.000	1,038.956	0.000	5,375.971	0.000	56,513.481	61,889.452	61,889.452
2035	3	0.000	0.000	1,038.956	0.000	4,415.017	25.311	55,475.599	59,915.927	59,915.927
2035	4	0.000	0.000	1,038.956	0.000	2,572.593	160.083	56,028.294	58,760.971	58,760.971
2035	5	0.000	0.000	1,038.956	0.000	909.136	809.375	57,137.774	58,856.284	58,856.284
2035	6	0.000	0.000	1,038.956	0.000	165.260	3,869.699	61,876.943	65,911.901	65,911.901
2035	7	0.000	0.000	1,038.956	0.000	5.047	9,265.898	64,656.802	73,927.747	73,927.747
2035	8	0.000	0.000	1,038.956	0.000	0.000	10,182.966	65,585.609	75,768.575	75,768.575
2035	9	0.000	0.000	1,038.956	0.000	6.399	7,501.211	67,303.319	74,810.929	74,810.929

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2035	10	0.000	0.000	1,038.956	0.000	301.436	2,228.578	61,689.466	64,219.480	
2035	11	0.000	0.000	1,038.956	0.000	1,473.861	208.572	57,714.076	59,396.509	
2035	12	0.000	0.000	1,038.956	0.000	3,417.931	0.693	61,099.729	64,518.352	
2036	1	0.000	0.000	1,038.956	0.000	4,921.043	0.000	61,791.000	66,712.043	
2036	2	0.000	0.000	1,038.956	0.000	5,285.325	0.000	56,460.769	61,746.095	
2036	3	0.000	0.000	1,038.956	0.000	4,340.416	25.372	55,422.803	59,788.591	
2036	4	0.000	0.000	1,038.956	0.000	2,529.013	160.458	55,973.130	58,662.600	
2036	5	0.000	0.000	1,038.956	0.000	893.697	811.236	57,082.410	58,787.344	
2036	6	0.000	0.000	1,038.956	0.000	162.447	3,878.446	61,818.827	65,859.720	
2036	7	0.000	0.000	1,038.956	0.000	4.961	9,286.513	64,598.131	73,889.605	
2036	8	0.000	0.000	1,038.956	0.000	0.000	10,205.297	65,528.595	75,733.892	
2036	9	0.000	0.000	1,038.956	0.000	6.289	7,517.474	67,243.467	74,767.230	
2036	10	0.000	0.000	1,038.956	0.000	296.272	2,233.363	61,631.430	64,161.065	
2036	11	0.000	0.000	1,038.956	0.000	1,448.589	209.016	57,656.017	59,313.622	
2036	12	0.000	0.000	1,038.956	0.000	3,359.242	0.694	61,035.505	64,395.441	
2037	1	0.000	0.000	1,038.956	0.000	4,838.073	0.000	61,734.099	66,572.172	
2037	2	0.000	0.000	1,038.956	0.000	5,196.059	0.000	56,409.053	61,605.112	
2037	3	0.000	0.000	1,038.956	0.000	4,266.996	25.432	55,371.199	59,663.626	
2037	4	0.000	0.000	1,038.956	0.000	2,486.191	160.836	55,919.761	58,566.787	
2037	5	0.000	0.000	1,038.956	0.000	878.553	813.134	57,029.409	58,721.095	
2037	6	0.000	0.000	1,038.956	0.000	159.692	3,887.475	61,763.773	65,810.941	
2037	7	0.000	0.000	1,038.956	0.000	4.877	9,308.055	64,543.111	73,856.043	
2037	8	0.000	0.000	1,038.956	0.000	0.000	10,228.910	65,475.623	75,704.533	
2037	9	0.000	0.000	1,038.956	0.000	6.182	7,534.833	67,188.263	74,729.278	
2037	10	0.000	0.000	1,038.956	0.000	291.242	2,238.514	61,578.240	64,107.996	
2037	11	0.000	0.000	1,038.956	0.000	1,423.992	209.498	57,603.072	59,236.562	
2037	12	0.000	0.000	1,038.956	0.000	3,302.202	0.696	60,977.450	64,280.348	
2038	1	0.000	0.000	1,038.956	0.000	4,754.693	0.000	61,687.438	66,442.131	
2038	2	0.000	0.000	1,038.956	0.000	5,106.511	0.000	56,367.161	61,473.672	
2038	3	0.000	0.000	1,038.956	0.000	4,193.458	25.497	55,329.835	59,548.789	
2038	4	0.000	0.000	1,038.956	0.000	2,443.340	161.249	55,877.251	58,481.840	
2038	5	0.000	0.000	1,038.956	0.000	863.409	815.221	56,987.381	58,666.010	
2038	6	0.000	0.000	1,038.956	0.000	156.939	3,897.441	61,720.235	65,774.614	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2038	7	0.000	0.000	1,038.956	0.000	4.793	9,331.871	64,499.635	73,836.298	
2038	8	0.000	0.000	1,038.956	0.000	0.000	10,255.013	65,433.726	75,688.739	
2038	9	0.000	0.000	1,038.956	0.000	6.076	7,553.997	67,144.495	74,704.568	
2038	10	0.000	0.000	1,038.956	0.000	286.212	2,244.187	61,535.919	64,066.318	
2038	11	0.000	0.000	1,038.956	0.000	1,399.386	210.027	57,560.763	59,170.176	
2038	12	0.000	0.000	1,038.956	0.000	3,245.131	0.698	60,930.993	64,176.822	
2039	1	0.000	0.000	1,038.956	0.000	4,673.875	0.000	61,649.486	66,323.362	
2039	2	0.000	0.000	1,038.956	0.000	5,019.721	0.000	56,333.122	61,352.843	
2039	3	0.000	0.000	1,038.956	0.000	4,122.197	25.567	55,296.285	59,444.049	
2039	4	0.000	0.000	1,038.956	0.000	2,401.830	161.692	55,842.877	58,406.399	
2039	5	0.000	0.000	1,038.956	0.000	848.745	817.466	56,953.553	58,619.764	
2039	6	0.000	0.000	1,038.956	0.000	154.275	3,908.206	61,685.415	65,747.895	
2039	7	0.000	0.000	1,038.956	0.000	4.712	9,357.738	64,465.156	73,827.605	
2039	8	0.000	0.000	1,038.956	0.000	0.000	10,283.563	65,400.859	75,684.422	
2039	9	0.000	0.000	1,038.956	0.000	5.973	7,575.133	67,110.606	74,691.712	
2039	10	0.000	0.000	1,038.956	0.000	281.367	2,250.498	61,503.602	64,035.468	
2039	11	0.000	0.000	1,038.956	0.000	1,375.718	210.621	57,528.914	59,115.253	
2039	12	0.000	0.000	1,038.956	0.000	3,190.384	0.700	60,897.039	64,088.123	
2040	1	0.000	0.000	1,038.956	0.000	4,593.710	0.000	61,560.351	66,154.062	
2040	2	0.000	0.000	1,038.956	0.000	4,933.940	0.000	56,254.419	61,188.359	
2040	3	0.000	0.000	1,038.956	0.000	4,052.008	25.632	55,219.875	59,297.515	
2040	4	0.000	0.000	1,038.956	0.000	2,361.063	162.113	55,765.545	58,288.721	
2040	5	0.000	0.000	1,038.956	0.000	834.380	819.638	56,878.223	58,532.242	
2040	6	0.000	0.000	1,038.956	0.000	151.670	3,918.758	61,608.430	65,678.858	
2040	7	0.000	0.000	1,038.956	0.000	4.632	9,383.323	64,389.197	73,777.152	
2040	8	0.000	0.000	1,038.956	0.000	0.000	10,311.968	65,328.479	75,640.447	
2040	9	0.000	0.000	1,038.956	0.000	5.872	7,596.287	67,035.958	74,638.118	
2040	10	0.000	0.000	1,038.956	0.000	276.650	2,256.840	61,432.275	63,965.765	
2040	11	0.000	0.000	1,038.956	0.000	1,352.685	211.219	57,458.458	59,022.362	
2040	12	0.000	0.000	1,038.956	0.000	3,136.828	0.702	60,818.782	63,956.312	
2041	1	0.000	0.000	1,038.956	0.000	4,520.226	0.000	61,502.718	66,022.944	
2041	2	0.000	0.000	1,038.956	0.000	4,854.606	0.000	56,200.929	61,055.535	
2041	3	0.000	0.000	1,038.956	0.000	3,986.521	25.704	55,165.351	59,177.576	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2041	4	0.000	0.000	1,038.956	0.000	2,322.723	162.556	55,707.901	58,193.179	
2041	5	0.000	0.000	1,038.956	0.000	820.770	821.812	56,819.737	58,462.320	
2041	6	0.000	0.000	1,038.956	0.000	149.186	3,928.880	61,546.455	65,624.521	
2041	7	0.000	0.000	1,038.956	0.000	4.556	9,406.978	64,326.133	73,737.667	
2041	8	0.000	0.000	1,038.956	0.000	0.000	10,337.375	65,266.733	75,604.108	
2041	9	0.000	0.000	1,038.956	0.000	5.775	7,614.569	66,970.502	74,590.846	
2041	10	0.000	0.000	1,038.956	0.000	272.056	2,262.153	61,368.199	63,902.408	
2041	11	0.000	0.000	1,038.956	0.000	1,330.157	211.706	57,393.684	58,935.546	
2041	12	0.000	0.000	1,038.956	0.000	3,084.496	0.703	60,747.094	63,832.293	
2042	1	0.000	0.000	1,038.956	0.000	4,446.449	0.000	61,444.830	65,891.280	
2042	2	0.000	0.000	1,038.956	0.000	4,775.269	0.000	56,148.505	60,923.774	
2042	3	0.000	0.000	1,038.956	0.000	3,921.281	25.768	55,113.136	59,060.186	
2042	4	0.000	0.000	1,038.956	0.000	2,284.655	162.955	55,653.750	58,101.360	
2042	5	0.000	0.000	1,038.956	0.000	807.297	823.808	56,765.701	58,396.805	
2042	6	0.000	0.000	1,038.956	0.000	146.733	3,938.305	61,489.952	65,574.990	
2042	7	0.000	0.000	1,038.956	0.000	4.481	9,429.246	64,269.174	73,702.902	
2042	8	0.000	0.000	1,038.956	0.000	0.000	10,361.476	65,211.292	75,572.769	
2042	9	0.000	0.000	1,038.956	0.000	5.680	7,632.006	66,911.947	74,549.633	
2042	10	0.000	0.000	1,038.956	0.000	267.542	2,267.234	61,310.949	63,845.725	
2042	11	0.000	0.000	1,038.956	0.000	1,308.023	212.171	57,335.788	58,855.982	
2042	12	0.000	0.000	1,038.956	0.000	3,033.002	0.705	60,682.375	63,716.082	
2043	1	0.000	0.000	1,038.956	0.000	4,371.899	0.000	61,397.780	65,769.679	
2043	2	0.000	0.000	1,038.956	0.000	4,694.909	0.000	56,104.958	60,799.866	
2043	3	0.000	0.000	1,038.956	0.000	3,855.045	25.825	55,068.838	58,949.708	
2043	4	0.000	0.000	1,038.956	0.000	2,245.915	163.305	55,606.870	58,016.090	
2043	5	0.000	0.000	1,038.956	0.000	793.556	825.523	56,718.065	58,337.144	
2043	6	0.000	0.000	1,038.956	0.000	144.226	3,946.261	61,439.368	65,529.856	
2043	7	0.000	0.000	1,038.956	0.000	4.404	9,447.750	64,217.555	73,669.709	
2043	8	0.000	0.000	1,038.956	0.000	0.000	10,381.225	65,160.567	75,541.793	
2043	9	0.000	0.000	1,038.956	0.000	5.582	7,646.103	66,857.932	74,509.616	
2043	10	0.000	0.000	1,038.956	0.000	262.912	2,271.293	61,257.809	63,792.014	
2043	11	0.000	0.000	1,038.956	0.000	1,285.314	212.539	57,281.781	58,779.634	
2043	12	0.000	0.000	1,038.956	0.000	2,980.314	0.706	60,622.944	63,603.964	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2044	1	0.000	0.000	1,038.956	0.000	4,297.923	0.000	61,350.109	65,648.032	
2044	2	0.000	0.000	1,038.956	0.000	4,615.559	0.000	56,062.567	60,678.126	
2044	3	0.000	0.000	1,038.956	0.000	3,789.968	25.876	55,027.412	58,843.255	
2044	4	0.000	0.000	1,038.956	0.000	2,208.036	163.628	55,564.646	57,936.310	
2044	5	0.000	0.000	1,038.956	0.000	780.184	827.171	56,676.669	58,284.024	
2044	6	0.000	0.000	1,038.956	0.000	141.798	3,954.191	61,396.835	65,492.823	
2044	7	0.000	0.000	1,038.956	0.000	4.330	9,466.834	64,175.417	73,646.581	
2044	8	0.000	0.000	1,038.956	0.000	0.000	10,402.296	65,120.295	75,522.591	
2044	9	0.000	0.000	1,038.956	0.000	5.488	7,661.717	66,816.307	74,483.512	
2044	10	0.000	0.000	1,038.956	0.000	258.496	2,275.958	61,217.987	63,752.441	
2044	11	0.000	0.000	1,038.956	0.000	1,263.742	212.978	57,242.424	58,719.144	
2044	12	0.000	0.000	1,038.956	0.000	2,930.237	0.707	60,579.354	63,510.298	
2045	1	0.000	0.000	1,038.956	0.000	4,225.040	0.000	61,319.525	65,544.565	
2045	2	0.000	0.000	1,038.956	0.000	4,537.111	0.000	56,034.299	60,571.409	
2045	3	0.000	0.000	1,038.956	0.000	3,725.407	25.931	54,998.720	58,750.058	
2045	4	0.000	0.000	1,038.956	0.000	2,170.351	163.969	55,534.490	57,868.810	
2045	5	0.000	0.000	1,038.956	0.000	766.844	828.867	56,646.248	58,241.959	
2045	6	0.000	0.000	1,038.956	0.000	139.369	3,962.185	61,364.771	65,466.326	
2045	7	0.000	0.000	1,038.956	0.000	4.256	9,485.735	64,142.946	73,632.937	
2045	8	0.000	0.000	1,038.956	0.000	0.000	10,422.825	65,088.642	75,511.467	
2045	9	0.000	0.000	1,038.956	0.000	5.394	7,676.658	66,782.884	74,464.935	
2045	10	0.000	0.000	1,038.956	0.000	254.045	2,280.347	61,185.387	63,719.779	
2045	11	0.000	0.000	1,038.956	0.000	1,241.958	213.385	57,209.577	58,664.919	
2045	12	0.000	0.000	1,038.956	0.000	2,879.691	0.709	60,543.067	63,423.467	
2046	1	0.000	0.000	1,038.956	0.000	4,154.390	0.000	61,295.501	65,449.891	
2046	2	0.000	0.000	1,038.956	0.000	4,461.199	0.000	56,012.530	60,473.728	
2046	3	0.000	0.000	1,038.956	0.000	3,663.039	25.984	54,977.026	58,666.049	
2046	4	0.000	0.000	1,038.956	0.000	2,133.993	164.307	55,511.976	57,810.276	
2046	5	0.000	0.000	1,038.956	0.000	753.989	830.565	56,623.771	58,208.325	
2046	6	0.000	0.000	1,038.956	0.000	137.031	3,970.254	61,341.262	65,448.547	
2046	7	0.000	0.000	1,038.956	0.000	4.184	9,504.928	64,119.251	73,628.364	
2046	8	0.000	0.000	1,038.956	0.000	0.000	10,443.763	65,065.591	75,509.354	
2046	9	0.000	0.000	1,038.956	0.000	5.303	7,691.948	66,758.549	74,455.800	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2046	10	0.000	0.000	1,038.956	0.000	249.768	2,284.850	61,161.613	63,696.230	
2046	11	0.000	0.000	1,038.956	0.000	1,221.024	213.802	57,185.562	58,620.388	
2046	12	0.000	0.000	1,038.956	0.000	2,831.107	0.710	60,516.379	63,348.196	
2047	1	0.000	0.000	1,038.956	0.000	4,085.459	0.000	61,284.835	65,370.294	
2047	2	0.000	0.000	1,038.956	0.000	4,387.074	0.000	56,002.473	60,389.547	
2047	3	0.000	0.000	1,038.956	0.000	3,602.092	26.038	54,966.623	58,594.753	
2047	4	0.000	0.000	1,038.956	0.000	2,098.437	164.643	55,500.806	57,763.886	
2047	5	0.000	0.000	1,038.956	0.000	741.410	832.247	56,612.281	58,185.937	
2047	6	0.000	0.000	1,038.956	0.000	134.742	3,978.210	61,328.945	65,441.898	
2047	7	0.000	0.000	1,038.956	0.000	4.114	9,523.801	64,106.593	73,634.509	
2047	8	0.000	0.000	1,038.956	0.000	0.000	10,464.321	65,053.088	75,517.408	
2047	9	0.000	0.000	1,038.956	0.000	5.214	7,706.950	66,745.160	74,457.324	
2047	10	0.000	0.000	1,038.956	0.000	245.579	2,289.268	61,148.397	63,683.244	
2047	11	0.000	0.000	1,038.956	0.000	1,200.526	214.212	57,172.104	58,586.842	
2047	12	0.000	0.000	1,038.956	0.000	2,783.573	0.712	60,501.572	63,285.856	
2048	1	0.000	0.000	1,038.956	0.000	4,017.873	0.000	61,282.588	65,300.462	
2048	2	0.000	0.000	1,038.956	0.000	4,314.509	0.000	56,000.505	60,315.014	
2048	3	0.000	0.000	1,038.956	0.000	3,542.523	26.090	54,964.748	58,533.361	
2048	4	0.000	0.000	1,038.956	0.000	2,063.733	164.971	55,498.865	57,727.570	
2048	5	0.000	0.000	1,038.956	0.000	729.149	833.906	56,610.378	58,173.433	
2048	6	0.000	0.000	1,038.956	0.000	132.514	3,986.154	61,327.034	65,445.702	
2048	7	0.000	0.000	1,038.956	0.000	4.046	9,542.865	64,104.795	73,651.706	
2048	8	0.000	0.000	1,038.956	0.000	0.000	10,485.340	65,051.501	75,536.841	
2048	9	0.000	0.000	1,038.956	0.000	5.128	7,722.484	66,743.658	74,471.270	
2048	10	0.000	0.000	1,038.956	0.000	241.525	2,293.903	61,147.136	63,682.564	
2048	11	0.000	0.000	1,038.956	0.000	1,180.721	214.648	57,171.059	58,566.428	
2048	12	0.000	0.000	1,038.956	0.000	2,737.677	0.713	60,500.631	63,239.021	
2049	1	0.000	0.000	1,038.956	0.000	3,953.054	0.000	61,293.215	65,246.269	
2049	2	0.000	0.000	1,038.956	0.000	4,244.909	0.000	56,010.067	60,254.976	
2049	3	0.000	0.000	1,038.956	0.000	3,485.383	26.142	54,974.229	58,485.754	
2049	4	0.000	0.000	1,038.956	0.000	2,030.442	165.298	55,508.562	57,704.302	
2049	5	0.000	0.000	1,038.956	0.000	717.386	835.560	56,619.941	58,172.887	
2049	6	0.000	0.000	1,038.956	0.000	130.377	3,994.065	61,336.954	65,461.395	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2049	7	0.000	0.000	1,038.956	0.000	3.981	9,561.838	64,114.753	73,680.573	
2049	8	0.000	0.000	1,038.956	0.000	0.000	10,506.244	65,061.174	75,567.418	
2049	9	0.000	0.000	1,038.956	0.000	5.045	7,737.919	66,753.825	74,496.789	
2049	10	0.000	0.000	1,038.956	0.000	237.634	2,298.504	61,157.061	63,693.199	
2049	11	0.000	0.000	1,038.956	0.000	1,161.709	215.080	57,181.089	58,557.878	
2049	12	0.000	0.000	1,038.956	0.000	2,693.624	0.714	60,511.877	63,206.215	
2050	1	0.000	0.000	1,038.956	0.000	3,890.552	0.000	61,314.779	65,205.331	
2050	2	0.000	0.000	1,038.956	0.000	4,177.856	0.000	56,029.741	60,207.597	
2050	3	0.000	0.000	1,038.956	0.000	3,430.385	26.198	54,993.987	58,450.569	
2050	4	0.000	0.000	1,038.956	0.000	1,998.429	165.654	55,529.127	57,693.210	
2050	5	0.000	0.000	1,038.956	0.000	706.086	837.371	56,640.550	58,184.007	
2050	6	0.000	0.000	1,038.956	0.000	128.325	4,002.784	61,358.608	65,489.718	
2050	7	0.000	0.000	1,038.956	0.000	3.919	9,582.881	64,136.695	73,723.495	
2050	8	0.000	0.000	1,038.956	0.000	0.000	10,529.569	65,082.640	75,612.209	
2050	9	0.000	0.000	1,038.956	0.000	4.966	7,755.259	66,776.591	74,536.816	
2050	10	0.000	0.000	1,038.956	0.000	233.913	2,303.706	61,179.424	63,717.044	
2050	11	0.000	0.000	1,038.956	0.000	1,143.546	215.572	57,203.812	58,562.930	
2050	12	0.000	0.000	1,038.956	0.000	2,651.578	0.716	60,537.344	63,189.638	
2051	1	0.000	0.000	1,038.956	0.000	3,829.144	0.000	61,339.415	65,168.559	
2051	2	0.000	0.000	1,038.956	0.000	4,112.012	0.000	56,052.349	60,164.360	
2051	3	0.000	0.000	1,038.956	0.000	3,376.406	26.255	55,016.818	58,419.479	
2051	4	0.000	0.000	1,038.956	0.000	1,967.027	166.020	55,553.039	57,686.086	
2051	5	0.000	0.000	1,038.956	0.000	695.007	839.238	56,664.652	58,198.897	
2051	6	0.000	0.000	1,038.956	0.000	126.315	4,011.810	61,384.059	65,522.184	
2051	7	0.000	0.000	1,038.956	0.000	3.857	9,604.737	64,162.591	73,771.185	
2051	8	0.000	0.000	1,038.956	0.000	0.000	10,553.873	65,108.067	75,661.940	
2051	9	0.000	0.000	1,038.956	0.000	4.889	7,773.389	66,803.667	74,581.945	
2051	10	0.000	0.000	1,038.956	0.000	230.275	2,309.163	61,206.111	63,745.549	
2051	11	0.000	0.000	1,038.956	0.000	1,125.796	216.090	57,231.012	58,572.898	
2051	12	0.000	0.000	1,038.956	0.000	2,610.505	0.718	60,567.886	63,179.109	
2052	1	0.000	0.000	1,038.956	0.000	3,769.152	0.000	61,369.203	65,138.354	
2052	2	0.000	0.000	1,038.956	0.000	4,047.671	0.000	56,079.512	60,127.183	
2052	3	0.000	0.000	1,038.956	0.000	3,323.648	26.315	55,044.076	58,394.039	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	11-Feb	11-Mar	aug15on	X-Missing	Heating	Cooling	Other	Total Energy	Actual Energy
2052	4	0.000	0.000	1,038.956	0.000	1,936.327	166.404	55,581.422	57,684.153	
2052	5	0.000	0.000	1,038.956	0.000	684.173	841.197	56,693.093	58,218.464	
2052	6	0.000	0.000	1,038.956	0.000	124.349	4,021.261	61,413.924	65,559.533	
2052	7	0.000	0.000	1,038.956	0.000	3.797	9,627.579	64,192.813	73,824.189	
2052	8	0.000	0.000	1,038.956	0.000	0.000	10,579.226	65,137.583	75,716.808	
2052	9	0.000	0.000	1,038.956	0.000	4.813	7,792.264	66,834.917	74,631.994	
2052	10	0.000	0.000	1,038.956	0.000	226.713	2,314.833	61,236.739	63,778.285	
2052	11	0.000	0.000	1,038.956	0.000	1,108.413	216.627	57,262.058	58,587.097	
2052	12	0.000	0.000	1,038.956	0.000	2,570.272	0.720	60,602.573	63,173.565	
2053	1	0.000	0.000	1,038.956	0.000	3,710.373	0.000	61,403.118	65,113.491	
2053	2	0.000	0.000	1,038.956	0.000	3,984.605	0.000	56,110.254	60,094.859	
2053	3	0.000	0.000	1,038.956	0.000	3,271.913	26.377	55,074.736	58,373.027	
2053	4	0.000	0.000	1,038.956	0.000	1,906.209	166.798	55,613.161	57,686.168	
2053	5	0.000	0.000	1,038.956	0.000	673.541	843.201	56,724.710	58,241.453	
2053	6	0.000	0.000	1,038.956	0.000	122.418	4,030.900	61,446.935	65,600.253	
2053	7	0.000	0.000	1,038.956	0.000	3.738	9,650.813	64,226.040	73,880.591	
2053	8	0.000	0.000	1,038.956	0.000	0.000	10,604.945	65,169.859	75,774.803	
2053	9	0.000	0.000	1,038.956	0.000	4.738	7,811.355	66,868.892	74,684.986	
2053	10	0.000	0.000	1,038.956	0.000	223.209	2,320.552	61,269.853	63,813.614	
2053	11	0.000	0.000	1,038.956	0.000	1,091.307	217.166	57,295.436	58,603.909	
2053	12	0.000	0.000	1,038.956	0.000	2,530.664	0.721	60,639.685	63,171.071	
2054	1	0.000	0.000	1,038.956	0.000	3,652.519	0.000	61,439.520	65,092.040	
2054	2	0.000	0.000	1,038.956	0.000	3,922.531	0.000	56,143.230	60,065.760	
2054	3	0.000	0.000	1,038.956	0.000	3,220.992	26.439	55,107.602	58,355.033	
2054	4	0.000	0.000	1,038.956	0.000	1,876.565	167.194	55,647.164	57,690.923	
2054	5	0.000	0.000	1,038.956	0.000	663.075	845.212	56,758.565	58,266.852	
2054	6	0.000	0.000	1,038.956	0.000	120.518	4,040.571	61,482.260	65,643.349	
2054	7	0.000	0.000	1,038.956	0.000	3.681	9,674.124	64,261.572	73,939.377	
2054	8	0.000	0.000	1,038.956	0.000	0.000	10,630.750	65,204.350	75,835.099	
2054	9	0.000	0.000	1,038.956	0.000	4.665	7,830.510	66,905.172	74,740.347	
2054	10	0.000	0.000	1,038.956	0.000	219.760	2,326.289	61,305.187	63,851.236	
2054	11	0.000	0.000	1,038.956	0.000	1,074.468	217.708	57,331.022	58,623.197	
2054	12	0.000	0.000	1,038.956	0.000	2,491.671	0.723	60,679.219	63,171.614	

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2000	1	7,869.454	0.000	53,175.435	61,044.889	0	0	0	7,869.454	0.000
2000	2	9,689.496	0.000	47,041.474	56,730.970	0	0	0	9,689.496	0.000
2000	3	4,837.278	117.417	48,368.193	53,322.888	0	0	0	4,837.278	117.417
2000	4	3,470.212	71.636	47,550.616	51,092.464	0	0	0	3,470.212	71.636
2000	5	1,594.931	1,606.464	50,581.533	53,782.928	0	0	0	1,594.931	1,606.464
2000	6	194.479	3,613.943	54,921.898	58,730.319	0	0	0	194.479	3,613.943
2000	7	18.968	7,349.737	55,336.548	62,705.253	0	0	0	18.968	7,349.737
2000	8	0.000	7,523.717	56,713.848	64,237.565	0	0	0	0.000	7,523.717
2000	9	29.320	8,805.720	58,947.212	67,782.252	0	0	0	29.320	8,805.720
2000	10	679.579	2,193.580	55,520.140	58,393.299	0	0	0	679.579	2,193.580
2000	11	1,828.344	148.639	53,057.364	55,034.347	0	0	0	1,828.344	148.639
2000	12	7,892.673	0.000	54,089.960	61,982.633	0	0	0	7,892.673	0.000
2001	1	11,054.204	0.000	53,404.388	64,458.592	0	0	0	11,054.204	0.000
2001	2	8,834.540	0.000	51,078.998	59,913.538	0	0	0	8,834.540	0.000
2001	3	7,281.537	0.000	47,915.477	55,197.014	0	0	0	7,281.537	0.000
2001	4	4,621.780	145.605	47,723.697	52,491.082	0	0	0	4,621.780	145.605
2001	5	829.006	1,755.530	52,537.425	55,121.961	0	0	0	829.006	1,755.530
2001	6	281.596	2,954.903	57,084.670	60,321.169	0	0	0	281.596	2,954.903
2001	7	31.894	8,257.809	57,001.345	65,291.049	0	0	0	31.894	8,257.809
2001	8	0.000	13,739.411	58,099.668	71,839.079	0	0	0	0.000	13,739.411
2001	9	9.686	7,793.239	61,181.235	68,984.160	0	0	0	9.686	7,793.239
2001	10	538.678	1,143.829	55,456.075	57,138.582	0	0	0	538.678	1,143.829
2001	11	1,725.938	60.590	50,894.081	52,680.609	0	0	0	1,725.938	60.590
2001	12	2,858.019	0.000	55,545.783	58,403.802	0	0	0	2,858.019	0.000
2002	1	7,365.837	0.000	55,744.077	63,109.914	0	0	0	7,365.837	0.000
2002	2	6,352.904	0.000	50,411.602	56,764.506	0	0	0	6,352.904	0.000
2002	3	6,413.305	0.000	50,194.919	56,608.224	0	0	0	6,413.305	0.000
2002	4	5,016.101	570.055	51,696.216	57,282.373	0	0	0	5,016.101	570.055
2002	5	1,855.072	1,228.750	50,912.491	53,996.313	0	0	0	1,855.072	1,228.750
2002	6	706.807	3,039.422	56,399.552	60,145.781	0	0	0	706.807	3,039.422
2002	7	0.000	14,129.911	57,689.181	71,819.092	0	0	0	0.000	14,129.911
2002	8	0.000	15,282.712	58,078.818	73,361.530	0	0	0	0.000	15,282.712
2002	9	0.000	10,123.301	61,062.504	71,185.805	0	0	0	0.000	10,123.301

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2002	10	465.008	4,312.859	56,250.212	61,028.079	0			465.008	4,312.859
2002	11	3,381.479	268.050	52,065.296	55,714.825	0			3,381.479	268.050
2002	12	6,683.650	0.000	56,291.637	62,975.287	0			6,683.650	0.000
2003	1	8,044.555	0.000	57,820.218	65,864.773	0			8,044.555	0.000
2003	2	10,130.811	0.000	52,980.317	63,111.128	0			10,130.811	0.000
2003	3	8,604.375	0.000	50,219.895	58,824.270	0			8,604.375	0.000
2003	4	3,589.269	185.270	52,601.323	56,375.862	0			3,589.269	185.270
2003	5	1,419.074	448.837	52,926.757	54,794.668	0			1,419.074	448.837
2003	6	372.118	837.477	57,014.536	58,224.130	0			372.118	837.477
2003	7	19,490	8,128.584	59,733.215	67,881.288	0			19,490	8,128.584
2003	8	0.000	8,752.835	60,903.290	69,656.125	0			0.000	8,752.835
2003	9	1.280	9,273.225	60,288.016	69,562.521	0			1.280	9,273.225
2003	10	847.885	1,520.519	55,717.821	58,086.225	0			847.885	1,520.519
2003	11	2,160.889	45.343	51,743.708	53,949.940	0			2,160.889	45.343
2003	12	4,923.709	0.000	58,170.239	63,093.948	0			4,923.709	0.000
2004	1	7,200.054	0.000	58,062.358	65,262.412	0			7,200.054	0.000
2004	2	10,242.789	0.000	52,553.707	62,796.496	0			10,242.789	0.000
2004	3	6,562.990	0.000	51,133.191	57,696.181	0			6,562.990	0.000
2004	4	3,527.897	278.187	52,292.886	56,098.970	0			3,527.897	278.187
2004	5	1,248.305	2,555.409	54,436.313	58,240.027	0			1,248.305	2,555.409
2004	6	140.509	4,785.675	57,378.603	62,304.787	0			140.509	4,785.675
2004	7	1.273	7,164.643	58,432.264	65,598.180	0			1.273	7,164.643
2004	8	0.000	7,191.654	58,970.506	66,162.160	0			0.000	7,191.654
2004	9	0.000	6,020.380	64,297.230	70,317.610	0			0.000	6,020.380
2004	10	506.109	2,153.799	58,552.725	61,212.633	0			506.109	2,153.799
2004	11	1,772.877	128.327	53,418.853	55,320.057	0			1,772.877	128.327
2004	12	4,816.099	9.170	59,633.128	64,458.398	0			4,816.099	9.170
2005	1	8,127.762	0.000	58,834.178	66,961.940	0			8,127.762	0.000
2005	2	8,851.462	0.000	53,456.083	62,307.545	0			8,851.462	0.000
2005	3	7,425.444	0.000	55,887.416	63,312.860	0			7,425.444	0.000
2005	4	4,302.445	98.757	54,387.239	58,788.440	0			4,302.445	98.757
2005	5	1,525.222	608.785	52,639.701	54,773.708	0			1,525.222	608.785
2005	6	224.159	4,222.071	61,325.882	65,772.112	0			224.159	4,222.071

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2005	7	0.000	13,561.140	60,384.430	73,945.570	0			0.000	13,561.140
2005	8	0.000	14,338.488	62,474.483	76,812.971	0			0.000	14,338.488
2005	9	0.000	9,465.432	66,832.043	76,297.475	0			0.000	9,465.432
2005	10	302.898	4,528.782	59,125.254	63,956.934	0			302.898	4,528.782
2005	11	2,009.460	379.531	53,602.553	55,991.545	0			2,009.460	379.531
2005	12	6,844.587	0.000	57,386.456	64,231.043	0			6,844.587	0.000
2006	1	7,186.977	0.000	59,869.882	67,056.859	0			7,186.977	0.000
2006	2	6,061.719	0.000	54,179.193	60,240.912	0			6,061.719	0.000
2006	3	6,793.257	0.000	51,571.546	58,364.803	0			6,793.257	0.000
2006	4	3,939.379	54.764	51,909.559	55,903.701	0			3,939.379	54.764
2006	5	940.612	98.966	55,476.218	56,515.795	0			940.612	98.966
2006	6	484.432	3,842.646	59,743.267	64,070.345	0			484.432	3,842.646
2006	7	0.000	8,181.503	64,335.075	72,516.578	0			0.000	8,181.503
2006	8	0.000	13,492.988	62,099.769	75,592.757	0			0.000	13,492.988
2006	9	19.799	5,778.040	65,349.797	71,147.637	0			19.799	5,778.040
2006	10	696.837	658.025	59,567.642	60,922.504	0			696.837	658.025
2006	11	3,170.062	25.276	55,154.075	58,349.412	0			3,170.062	25.276
2006	12	4,601.686	0.000	59,674.799	64,276.485	0			4,601.686	0.000
2007	1	5,266.778	0.000	62,014.610	67,281.388	0			5,266.778	0.000
2007	2	9,230.923	0.000	56,906.364	66,137.287	0			9,230.923	0.000
2007	3	8,312.143	15.281	54,322.190	62,649.614	0			8,312.143	15.281
2007	4	3,323.310	403.046	57,221.345	60,947.701	0			3,323.310	403.046
2007	5	1,296.796	991.148	57,972.649	60,260.593	0			1,296.796	991.148
2007	6	79.455	6,282.891	63,898.258	70,260.604	0			79.455	6,282.891
2007	7	0.000	10,706.970	67,204.701	77,911.671	0			0.000	10,706.970
2007	8	0.000	11,392.250	67,507.419	78,899.669	0			0.000	11,392.250
2007	9	16.712	9,790.043	71,228.311	81,035.066	0			16.712	9,790.043
2007	10	170.918	5,188.578	62,948.273	68,307.768	0			170.918	5,188.578
2007	11	1,862.764	1,061.216	59,706.776	62,630.756	0			1,862.764	1,061.216
2007	12	5,774.598	0.000	63,970.633	69,745.231	0			5,774.598	0.000
2008	1	7,004.534	0.000	66,002.683	73,007.217	0			7,004.534	0.000
2008	2	8,643.279	0.000	59,720.928	68,364.207	0			8,643.279	0.000
2008	3	7,908.152	0.000	57,565.151	65,473.303	0			7,908.152	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2008	4	4,412.738	9.866	58,186.173	62,608.776	0			4,412.738	9.866
2008	5	1,316.164	250.457	58,834.179	60,400.800	0			1,316.164	250.457
2008	6	384.347	4,026.875	63,442.588	67,853.809	0			384.347	4,026.875
2008	7	0.146	8,287.276	67,174.115	75,461.537	0			0.146	8,287.276
2008	8	0.000	10,355.117	69,200.413	79,555.530	0			0.000	10,355.117
2008	9	0.000	6,600.291	71,106.553	77,706.844	0			0.000	6,600.291
2008	10	289.522	2,019.634	65,068.311	67,377.467	0			289.522	2,019.634
2008	11	2,207.187	219.141	61,028.022	63,454.350	0			2,207.187	219.141
2008	12	6,364.082	0.000	62,474.894	68,838.976	0			6,364.082	0.000
2009	1	8,108.824	0.000	66,353.936	74,462.760	0			8,108.824	0.000
2009	2	9,206.977	0.000	59,346.713	68,553.690	0			9,206.977	0.000
2009	3	5,876.779	0.000	58,041.089	63,917.868	0			5,876.779	0.000
2009	4	3,243.061	18.433	58,480.792	61,742.286	0			3,243.061	18.433
2009	5	1,237.245	571.007	59,436.021	61,244.273	0			1,237.245	571.007
2009	6	187.194	2,351.209	62,290.845	64,829.248	0			187.194	2,351.209
2009	7	0.135	6,992.292	65,162.590	72,155.016	0			0.135	6,992.292
2009	8	0.000	6,820.013	66,367.388	73,187.401	0			0.000	6,820.013
2009	9	0.000	4,742.743	68,325.199	73,067.942	0			0.000	4,742.743
2009	10	783.993	1,078.701	62,684.167	64,546.860	0			783.993	1,078.701
2009	11	1,858.646	0.000	60,417.019	62,275.665	0			1,858.646	0.000
2009	12	4,376.718	0.000	64,119.504	68,496.222	0			4,376.718	0.000
2010	1	7,578.151	0.000	64,640.639	72,218.790	0			7,578.151	0.000
2010	2	7,689.681	0.000	59,316.383	67,006.064	0			7,689.681	0.000
2010	3	6,040.486	0.000	56,840.519	62,881.005	0			6,040.486	0.000
2010	4	2,259.912	530.056	58,145.751	60,935.719	0			2,259.912	530.056
2010	5	842.415	561.509	57,426.908	58,830.831	0			842.415	561.509
2010	6	180.662	5,595.197	63,717.970	69,493.829	0			180.662	5,595.197
2010	7	0.000	11,235.182	66,542.279	77,777.461	0			0.000	11,235.182
2010	8	0.000	14,851.270	67,947.987	82,799.257	0			0.000	14,851.270
2010	9	0.000	9,910.175	66,199.377	76,109.552	0			0.000	9,910.175
2010	10	333.770	2,323.167	62,063.651	64,720.587	0			333.770	2,323.167
2010	11	1,765.478	224.992	57,214.714	59,205.184	0			1,765.478	224.992
2010	12	5,377.567	0.000	60,315.788	65,693.355	0			5,377.567	0.000

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2011	1	7,664.971	0.000	63,668.570	71,333.541	0	0	0	7,664.971	0.000
2011	2	8,373.423	0.000	53,339.491	61,712.914	0	0	0	8,373.423	0.000
2011	3	5,980.571	0.000	59,121.782	65,102.353	0	0	0	5,980.571	0.000
2011	4	3,731.293	151.082	54,666.310	58,548.685	0	0	0	3,731.293	151.082
2011	5	1,326.868	756.017	58,024.056	60,106.941	0	0	0	1,326.868	756.017
2011	6	174.641	5,589.103	62,049.268	67,813.012	0	0	0	174.641	5,589.103
2011	7	0.000	10,438.947	66,837.641	77,276.588	0	0	0	0.000	10,438.947
2011	8	0.000	15,666.566	66,086.987	81,753.553	0	0	0	0.000	15,666.566
2011	9	30.014	7,912.130	66,916.318	74,858.462	0	0	0	30.014	7,912.130
2011	10	349.774	1,278.444	62,220.872	63,849.091	0	0	0	349.774	1,278.444
2011	11	1,553.399	211.129	58,654.386	60,418.914	0	0	0	1,553.399	211.129
2011	12	3,573.477	0.000	59,858.687	63,432.164	0	0	0	3,573.477	0.000
2012	1	5,190.554	0.000	63,539.377	68,729.931	0	0	0	5,190.554	0.000
2012	2	5,897.165	0.000	56,937.668	62,834.833	0	0	0	5,897.165	0.000
2012	3	4,182.952	475.775	57,470.359	62,129.085	0	0	0	4,182.952	475.775
2012	4	1,222.267	1,432.933	57,565.559	60,220.758	0	0	0	1,222.267	1,432.933
2012	5	1,012.406	977.681	58,498.178	60,488.266	0	0	0	1,012.406	977.681
2012	6	66.960	6,194.409	63,980.941	70,242.310	0	0	0	66.960	6,194.409
2012	7	5.968	15,667.772	72,360.154	88,033.895	0	0	0	5.968	15,667.772
2012	8	0.000	13,841.475	66,930.929	80,772.404	0	0	0	0.000	13,841.475
2012	9	11.546	7,128.909	68,067.450	75,207.904	0	0	0	11.546	7,128.909
2012	10	563.852	1,185.459	60,766.504	62,515.816	0	0	0	563.852	1,185.459
2012	11	2,240.010	275.928	58,331.495	60,847.433	0	0	0	2,240.010	275.928
2012	12	3,463.965	0.000	61,697.068	65,161.033	0	0	0	3,463.965	0.000
2013	1	5,485.857	0.000	62,730.652	68,216.509	0	0	0	5,485.857	0.000
2013	2	6,512.578	0.000	57,486.376	63,998.954	0	0	0	6,512.578	0.000
2013	3	5,889.505	0.000	57,294.243	63,183.748	0	0	0	5,889.505	0.000
2013	4	4,257.447	0.000	58,361.993	62,619.440	0	0	0	4,257.447	0.000
2013	5	1,224.538	1,026.587	59,262.607	61,513.732	0	0	0	1,224.538	1,026.587
2013	6	233.914	4,244.063	62,269.603	66,747.581	0	0	0	233.914	4,244.063
2013	7	3.364	9,364.095	66,601.300	75,968.759	0	0	0	3.364	9,364.095
2013	8	0.000	7,630.225	66,546.747	74,176.972	0	0	0	0.000	7,630.225
2013	9	0.374	8,615.993	69,986.640	78,603.007	0	0	0	0.374	8,615.993

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2013	10	164.991	3,235.201	63,012.757	66,412.949	0			164.991	3,235.201
2013	11	1,998.535	291.733	59,677.309	61,967.577	0			1,998.535	291.733
2013	12	5,131.520	0.000	62,792.241	67,923.761	0			5,131.520	0.000
2014	1	7,546.937	0.000	65,386.782	72,933.719	0			7,546.937	0.000
2014	2	8,842.735	0.000	57,916.742	66,759.477	0			8,842.735	0.000
2014	3	7,675.940	0.000	58,421.663	66,097.603	0			7,675.940	0.000
2014	4	4,145.035	27.308	56,992.934	61,165.277	0			4,145.035	27.308
2014	5	1,127.112	795.726	59,129.624	61,052.462	0			1,127.112	795.726
2014	6	257.372	5,131.908	61,019.306	66,408.586	0			257.372	5,131.908
2014	7	0.000	8,778.076	63,300.822	72,078.898	0			0.000	8,778.076
2014	8	0.000	6,581.969	64,100.088	70,682.057	0			0.000	6,581.969
2014	9	24.643	9,002.061	67,372.878	76,399.582	0			24.643	9,002.061
2014	10	356.869	1,360.997	60,365.980	62,083.846	0			356.869	1,360.997
2014	11	2,105.506	35.755	58,198.363	60,339.624	0			2,105.506	35.755
2014	12	5,151.341	0.000	63,523.961	68,675.302	0			5,151.341	0.000
2015	1	6,201.903	0.000	66,454.711	72,656.614	0			6,201.903	0.000
2015	2	7,488.242	0.000	58,760.138	66,248.380	0			7,488.242	0.000
2015	3	7,799.589	0.000	57,954.274	65,753.863	0			7,799.589	0.000
2015	4	3,225.465	11.169	58,420.749	61,657.382	0			3,225.465	11.169
2015	5	982.638	1,038.591	58,041.457	60,062.687	0			982.638	1,038.591
2015	6	162.691	4,635.265	62,216.256	67,014.212	0			162.691	4,635.265
2015	7	1.499	6,459.231	64,720.393	71,181.122	0			1.499	6,459.231
2015	8	0.000	10,363.841	67,639.481	78,003.322	0			0.000	10,363.841
2015	9	1.626	7,850.614	68,669.732	76,521.972	0			1.626	7,850.614
2015	10	249.585	2,318.473	63,409.622	65,977.680	0			249.585	2,318.473
2015	11	1,242.024	54.678	58,733.232	60,029.934	0			1,242.024	54.678
2015	12	3,239.009	0.000	62,779.856	66,018.865	0			3,239.009	0.000
2016	1	5,045.333	0.000	63,985.226	69,030.559	0			5,045.333	0.000
2016	2	6,828.730	0.000	58,208.418	65,037.148	0			6,828.730	0.000
2016	3	4,932.270	0.000	56,641.624	61,573.894	0			4,932.270	0.000
2016	4	2,779.619	4.898	57,771.348	60,555.865	0			2,779.619	4.898
2016	5	1,237.010	198.267	57,286.079	58,721.355	0			1,237.010	198.267
2016	6	246.712	4,776.315	64,529.784	69,552.811	0			246.712	4,776.315

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2016	7	0.000	8,481.549	70,367.525	78,849.074	0			0.000	8,481.549
2016	8	0.000	12,505.161	70,473.113	82,978.274	0			0.000	12,505.161
2016	9	0.000	9,638.590	69,656.430	79,295.020	0			0.000	9,638.590
2016	10	104.573	3,381.488	65,771.318	69,257.379	0			104.573	3,381.488
2016	11	1,151.030	324.823	60,153.519	61,629.372	0			1,151.030	324.823
2016	12	4,334.547	4.218	62,675.243	67,014.009	0			4,334.547	4.218
2017	1	6,729.845	0.000	65,398.451	72,128.296	0			6,729.845	0.000
2017	2	5,411.715	0.000	58,456.704	63,868.419	0			5,411.715	0.000
2017	3	4,083.872	0.000	56,774.260	60,858.132	0			4,083.872	0.000
2017	4	3,128.985	87.403	56,547.033	59,763.421	0			3,128.985	87.403
2017	5	997.189	748.193	56,730.997	58,476.379	0			997.189	748.193
2017	6	223.346	3,524.503	64,344.907	68,092.756	0			223.346	3,524.503
2017	7	0.000	7,919.168	68,695.683	76,614.851	0			0.000	7,919.168
2017	8	0.000	7,800.527	70,276.337	78,076.864	0			0.000	7,800.527
2017	9	0.000	3,971.962	70,556.636	74,528.598	0			0.000	3,971.962
2017	10	49.331	4,548.647	64,682.965	69,280.943	0			49.331	4,548.647
2017	11	2,108.561	260.291	58,620.329	60,989.181	0			2,108.561	260.291
2017	12	4,379.682	0.000	62,628.162	67,007.844	0			4,379.682	0.000
2018	1	8,032.921	0.000	64,978.552	73,011.473	0			8,032.921	0.000
2018	2	7,050.210	0.000	57,823.539	64,873.749	0			7,050.210	0.000
2018	3	5,302.054	0.000	56,843.605	62,145.659	0			5,302.054	0.000
2018	4	4,523.609	0.000	58,207.548	62,731.157	0			4,523.609	0.000
2018	5	1,858.630	733.390	58,934.471	61,526.491	0			1,858.630	733.390
2018	6	39.795	5,376.325	65,770.155	71,186.275	0			39.795	5,376.325
2018	7	0.000	9,883.421	67,903.355	77,786.776	0			0.000	9,883.421
2018	8	0.000	9,719.436	68,445.608	78,165.044	0			0.000	9,719.436
2018	9	0.000	9,310.661	68,008.745	77,319.406	0			0.000	9,310.661
2018	10	401.534	3,718.996	60,429.873	64,550.403	0			401.534	3,718.996
2018	11	2,838.779	401.697	55,174.413	58,414.889	0			2,838.779	401.697
2018	12	5,311.634	0.000	62,166.903	67,478.537	0			5,311.634	0.000
2019	1	5,380.105	0.000	60,727.575	66,107.680	0			5,380.105	0.000
2019	2	6,826.855	0.000	58,276.888	65,103.743	0			6,826.855	0.000
2019	3	5,606.599	25.615	57,216.741	62,848.955	0			5,606.599	25.615

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2019	4	3,267.323	162.023	57,819.658	61,249.004	0			3,267.323	162.023
2019	5	1,154.363	818.980	58,901.391	60,874.735	0			1,154.363	818.980
2019	6	209.758	3,914.157	63,692.120	67,816.035	0			209.758	3,914.157
2019	7	6.405	9,370.164	66,459.617	75,836.186	0			6.405	9,370.164
2019	8	0.000	10,292.094	67,305.295	77,597.389	0			0.000	10,292.094
2019	9	8.106	7,573.297	69,066.601	76,648.004	0			8.106	7,573.297
2019	10	381.609	2,248.337	63,369.933	65,999.879	0			381.609	2,248.337
2019	11	1,864.153	210.228	59,365.092	61,439.473	0			1,864.153	210.228
2019	12	4,320.687	0.698	62,896.738	67,218.122	0			4,320.687	0.698
2020	1	6,335.076	0.000	63,517.595	69,852.672	0			6,335.076	0.000
2020	2	6,795.711	0.000	57,983.522	64,779.232	0			6,795.711	0.000
2020	3	5,574.052	25.391	56,899.335	62,498.778	0			5,574.052	25.391
2020	4	3,243.992	160.392	57,462.932	60,867.317	761			3,243.992	160.392
2020	5	1,145.110	810.024	58,529.321	60,484.455	761			1,145.110	810.024
2020	6	207.948	3,868.969	63,293.140	67,370.057	761			207.948	3,868.969
2020	7	6.346	9,256.586	66,048.747	75,311.679	761			6.346	9,256.586
2020	8	0.000	10,165.971	66,907.860	77,073.831	761			0.000	10,165.971
2020	9	8.035	7,484.386	68,665.599	76,158.020	761			8.035	7,484.386
2020	10	378.356	2,222.614	62,990.984	65,591.954	761			378.356	2,222.614
2020	11	1,849.345	207.944	59,001.377	61,058.666	761			1,849.345	207.944
2020	12	4,288.125	0.691	62,508.067	66,796.883	761			4,288.125	0.691
2021	1	6,297.139	0.000	63,144.315	69,441.455	761			6,297.139	0.000
2021	2	6,763.326	0.000	57,676.054	64,439.379	761			6,763.326	0.000
2021	3	5,554.428	25.230	56,623.557	62,203.216	761			5,554.428	25.230
2021	4	3,236.659	159.579	57,208.451	60,604.688	761			3,236.659	159.579
2021	5	1,143.892	806.881	58,304.922	60,255.694	761			1,143.892	806.881
2021	6	207.954	3,858.172	63,086.441	67,152.567	761			207.954	3,858.172
2021	7	6.352	9,239.510	65,864.733	75,110.595	761			6.352	9,239.510
2021	8	0.000	10,155.345	66,748.859	76,904.204	761			0.000	10,155.345
2021	9	8.054	7,481.374	68,515.023	76,004.451	761			8.054	7,481.374
2021	10	379.462	2,222.823	62,857.069	65,459.354	761			379.462	2,222.823
2021	11	1,855.420	208.039	58,876.152	60,939.611	761			1,855.420	208.039
2021	12	4,303.288	0.691	62,376.801	66,680.780	761			4,303.288	0.691

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2022	1	6,337.855	0.000	63,052.337	69,390.192	761			6,337.855	0.000
2022	2	6,807.371	0.000	57,594.491	64,401.863	761			6,807.371	0.000
2022	3	5,590.387	25.257	56,542.196	62,157.839	761			5,590.387	25.257
2022	4	3,257.232	159.728	57,122.255	60,539.215	761			3,257.232	159.728
2022	5	1,150.945	807.482	58,215.599	60,174.026	761			1,150.945	807.482
2022	6	209.182	3,860.050	62,988.120	67,057.352	761			209.182	3,860.050
2022	7	6.388	9,241.018	65,759.388	75,006.794	761			6.388	9,241.018
2022	8	0.000	10,153.155	66,639.351	76,792.507	761			0.000	10,153.155
2022	9	8.093	7,476.816	68,392.114	75,877.023	761			8.093	7,476.816
2022	10	381.127	2,220.547	62,729.660	65,331.334	761			381.127	2,220.547
2022	11	1,862.784	207.739	58,740.317	60,810.840	761			1,862.784	207.739
2022	12	4,319.246	0.690	62,221.631	66,541.567	761			4,319.246	0.690
2023	1	6,199.006	0.000	62,917.758	69,116.764	761			6,199.006	0.000
2023	2	6,657.643	0.000	57,471.685	64,129.329	761			6,657.643	0.000
2023	3	5,467.233	25.130	56,420.185	61,912.548	761			5,467.233	25.130
2023	4	3,185.546	158.926	56,997.420	60,341.891	761			3,185.546	158.926
2023	5	1,125.719	803.501	58,094.356	60,023.576	761			1,125.719	803.501
2023	6	204.630	3,841.632	62,866.395	66,912.657	761			204.630	3,841.632
2023	7	6.250	9,199.084	65,643.476	74,848.810	761			6.250	9,199.084
2023	8	0.000	10,110.400	66,535.200	76,645.601	761			0.000	10,110.400
2023	9	7.925	7,448.707	68,294.090	75,750.722	761			7.925	7,448.707
2023	10	373.402	2,213.327	62,646.485	65,233.214	761			373.402	2,213.327
2023	11	1,826.073	207.182	58,670.031	60,703.287	761			1,826.073	207.182
2023	12	4,235.606	0.688	62,152.908	66,389.202	761			4,235.606	0.688
2024	1	6,086.385	0.000	62,871.926	68,958.311	761			6,086.385	0.000
2024	2	6,538.481	0.000	57,436.554	63,975.036	761			6,538.481	0.000
2024	3	5,370.828	25.111	56,391.365	61,787.304	761			5,370.828	25.111
2024	4	3,130.160	158.849	56,973.410	60,262.419	761			3,130.160	158.849
2024	5	1,106.388	803.290	58,075.459	59,985.137	761			1,106.388	803.290
2024	6	201.151	3,841.288	62,850.785	66,893.224	761			201.151	3,841.288
2024	7	6.145	9,199.312	65,630.515	74,835.971	761			6.145	9,199.312
2024	8	0.000	10,111.208	66,523.953	76,635.161	761			0.000	10,111.208
2024	9	7.792	7,449.351	68,282.536	75,739.678	761			7.792	7,449.351

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2024	10	367.104	2,213.432	62,634.514	65,215.050	761			367.104	2,213.432
2024	11	1,795.139	207.177	58,656.508	60,658.824	761			1,795.139	207.177
2024	12	4,163.193	0.688	62,134.301	66,298.183	761			4,163.193	0.688
2025	1	5,982.668	0.000	62,859.518	68,842.186	761			5,982.668	0.000
2025	2	6,425.596	0.000	57,420.405	63,846.001	761			6,425.596	0.000
2025	3	5,276.855	25.105	56,370.298	61,672.258	761			5,276.855	25.105
2025	4	3,074.671	158.770	56,946.544	60,179.985	761			3,074.671	158.770
2025	5	1,086.528	802.709	58,043.924	59,933.162	761			1,086.528	802.709
2025	6	197.499	3,837.701	62,813.373	66,848.572	761			197.499	3,837.701
2025	7	6.032	9,189.006	65,589.014	74,784.051	761			6.032	9,189.006
2025	8	0.000	10,098.224	66,480.514	76,578.737	761			0.000	10,098.224
2025	9	7.646	7,438.706	68,234.055	75,680.407	761			7.646	7,438.706
2025	10	360.216	2,209.996	62,585.156	65,155.367	761			360.216	2,209.996
2025	11	1,761.266	206.833	58,605.092	60,573.191	761			1,761.266	206.833
2025	12	4,084.304	0.687	62,075.983	66,160.974	761			4,084.304	0.687
2026	1	5,870.072	0.000	62,724.965	68,595.038	761			5,870.072	0.000
2026	2	6,304.321	0.000	57,298.397	63,602.718	761			6,304.321	0.000
2026	3	5,177.023	25.070	56,248.856	61,450.948	761			5,177.023	25.070
2026	4	3,016.381	158.543	56,820.921	59,995.846	761			3,016.381	158.543
2026	5	1,065.894	801.535	57,919.115	59,786.544	761			1,065.894	801.535
2026	6	193.743	3,831.979	62,683.647	66,709.369	761			193.743	3,831.979
2026	7	5.917	9,175.081	65,459.231	74,640.230	761			5.917	9,175.081
2026	8	0.000	10,082.691	66,355.361	76,438.051	761			0.000	10,082.691
2026	9	7.500	7,427.074	68,103.283	75,537.858	761			7.500	7,427.074
2026	10	353.331	2,206.494	62,458.837	65,018.662	761			353.331	2,206.494
2026	11	1,727.575	206.502	58,479.055	60,413.131	761			1,727.575	206.502
2026	12	4,006.272	0.686	61,938.352	65,945.309	761			4,006.272	0.686
2027	1	5,760.398	0.000	62,601.668	68,362.066	761			5,760.398	0.000
2027	2	6,186.857	0.000	57,188.832	63,375.690	761			6,186.857	0.000
2027	3	5,080.871	25.046	56,141.988	61,247.904	761			5,080.871	25.046
2027	4	2,960.569	158.405	56,712.725	59,831.699	761			2,960.569	158.405
2027	5	1,046.257	800.899	57,814.039	59,661.195	761			1,046.257	800.899
2027	6	190.191	3,829.292	62,577.062	66,596.545	761			190.191	3,829.292

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2027	7	5,809	9,169.603	65,355.393	74,530.805	761			5,809	9,169.603
2027	8	0.000	10,077.852	66,258.148	76,336.000	761			0.000	10,077.852
2027	9	7,366	7,424.433	68,004.945	75,436.744	761			7,366	7,424.433
2027	10	347.019	2,205.994	62,366.975	64,919.988	761			347.019	2,205.994
2027	11	1,696.933	206.482	58,390.490	60,293.905	761			1,696.933	206.482
2027	12	3,935.703	0.686	61,844.177	65,780.566	761			3,935.703	0.686
2028	1	5,657.960	0.000	62,523.359	68,181.319	761			5,657.960	0.000
2028	2	6,077.548	0.000	57,121.054	63,198.602	761			6,077.548	0.000
2028	3	4,991.639	25.067	56,077.374	61,094.080	761			4,991.639	25.067
2028	4	2,908.834	158.551	56,648.314	59,715.700	761			2,908.834	158.551
2028	5	1,028.049	801.697	57,751.998	59,581.744	761			1,028.049	801.697
2028	6	186.891	3,833.310	62,514.088	66,534.289	761			186.891	3,833.310
2028	7	5,708	9,179.507	65,293.341	74,478.556	761			5,708	9,179.507
2028	8	0.000	10,088.818	66,198.716	76,287.533	761			0.000	10,088.818
2028	9	7,238	7,432.423	67,942.843	75,382.504	761			7,238	7,432.423
2028	10	340.997	2,208.302	62,306.553	64,855.852	761			340.997	2,208.302
2028	11	1,667.409	206.689	58,329.411	60,203.509	761			1,667.409	206.689
2028	12	3,867.038	0.687	61,776.042	65,643.766	761			3,867.038	0.687
2029	1	5,562.538	0.000	62,466.388	68,028.926	761			5,562.538	0.000
2029	2	5,974.639	0.000	57,068.408	63,043.047	761			5,974.639	0.000
2029	3	4,906.754	25.096	56,023.815	60,955.666	761			4,906.754	25.096
2029	4	2,859.166	158.727	56,591.742	59,609.635	761			2,859.166	158.727
2029	5	1,010.422	802.527	57,694.554	59,507.502	761			1,010.422	802.527
2029	6	183.673	3,837.001	62,453.050	66,473.724	761			183.673	3,837.001
2029	7	5,610	9,187.698	65,230.956	74,424.264	761			5,610	9,187.698
2029	8	0.000	10,097.138	66,137.342	76,234.481	761			0.000	10,097.138
2029	9	7,112	7,438.118	67,877.687	75,322.917	761			7,112	7,438.118
2029	10	335.042	2,209.875	62,242.687	64,787.605	761			335.042	2,209.875
2029	11	1,638.214	206.826	58,264.871	60,109.911	761			1,638.214	206.826
2029	12	3,799.091	0.687	61,703.806	65,503.584	761			3,799.091	0.687
2030	1	5,463.809	0.000	62,311.520	67,775.329	761			5,463.809	0.000
2030	2	5,868.258	0.000	56,928.105	62,796.363	761			5,868.258	0.000
2030	3	4,819.143	25.103	55,884.222	60,728.468	761			4,819.143	25.103

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor
2030	4	2,807.990	158.758	56,447.384	59,414.132	761	2,807.990	158.758
2030	5	992.301	802.659	57,551.208	59,346.168	761	992.301	802.659
2030	6	180.374	3,837.534	62,304.209	66,322.117	761	180.374	3,837.534
2030	7	5.509	9,188.825	65,082.317	74,276.651	761	5.509	9,188.825
2030	8	0.000	10,098.305	65,994.418	76,092.723	761	0.000	10,098.305
2030	9	6.984	7,438.974	67,728.988	75,174.946	761	6.984	7,438.974
2030	10	329.019	2,210.144	62,099.702	64,638.865	761	329.019	2,210.144
2030	11	1,608.782	206.854	58,122.876	59,938.511	761	1,608.782	206.854
2030	12	3,730.943	0.687	61,548.763	65,280.393	761	3,730.943	0.687
2031	1	5,363.373	0.000	62,176.928	67,540.301	761	5,363.373	0.000
2031	2	5,760.606	0.000	56,808.065	62,568.670	761	5,760.606	0.000
2031	3	4,730.919	25.120	55,766.522	60,522.560	761	4,730.919	25.120
2031	4	2,756.691	158.875	56,327.323	59,242.889	761	2,756.691	158.875
2031	5	974.208	803.278	57,433.407	59,210.894	761	974.208	803.278
2031	6	177.091	3,840.620	62,183.095	66,200.807	761	177.091	3,840.620
2031	7	5.409	9,196.467	64,962.267	74,164.143	761	5.409	9,196.467
2031	8	0.000	10,106.935	65,879.586	75,986.521	761	0.000	10,106.935
2031	9	6.857	7,445.474	67,609.949	75,062.281	761	6.857	7,445.474
2031	10	323.058	2,212.110	61,985.462	64,520.630	761	323.058	2,212.110
2031	11	1,579.656	207.040	58,009.521	59,796.217	761	1,579.656	207.040
2031	12	3,663.385	0.688	61,424.393	65,088.466	761	3,663.385	0.688
2032	1	5,267.626	0.000	62,072.986	67,340.612	761	5,267.626	0.000
2032	2	5,657.742	0.000	56,714.634	62,372.376	761	5,657.742	0.000
2032	3	4,646.423	25.152	55,674.198	60,345.772	761	4,646.423	25.152
2032	4	2,707.429	159.073	56,232.274	59,098.776	761	2,707.429	159.073
2032	5	956.792	804.275	57,339.376	59,100.443	761	956.792	804.275
2032	6	173.925	3,845.371	62,085.770	66,105.065	761	173.925	3,845.371
2032	7	5.312	9,207.861	64,865.352	74,078.525	761	5.312	9,207.861
2032	8	0.000	10,119.525	65,786.637	75,906.163	761	0.000	10,119.525
2032	9	6.735	7,454.807	67,513.420	74,974.961	761	6.735	7,454.807
2032	10	317.290	2,214.907	61,892.783	64,424.980	761	317.290	2,214.907
2032	11	1,551.473	207.305	57,917.584	59,676.362	761	1,551.473	207.305
2032	12	3,598.124	0.689	61,324.205	64,923.017	761	3,598.124	0.689

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2033	1	5,177.864	0.000	61,983.478	67,161.343	761			5,177.864	0.000
2033	2	5,561.468	0.000	56,634.777	62,196.245	761			5,561.468	0.000
2033	3	4,567.463	25.196	55,595.837	60,188.496	761			4,567.463	25.196
2033	4	2,661.497	159.360	56,152.408	58,973.266	761			2,661.497	159.360
2033	5	940.584	805.747	57,261.048	59,007.379	761			940.584	805.747
2033	6	170.982	3,852.496	62,005.244	66,028.723	761			170.982	3,852.496
2033	7	5.222	9,225.085	64,785.511	74,015.819	761			5.222	9,225.085
2033	8	0.000	10,138.584	65,710.213	75,848.797	761			0.000	10,138.584
2033	9	6.621	7,468.909	67,434.094	74,909.625	761			6.621	7,468.909
2033	10	311.936	2,219.108	61,816.530	64,347.573	761			311.936	2,219.108
2033	11	1,525.295	207.698	57,841.766	59,574.759	761			1,525.295	207.698
2033	12	3,537.344	0.690	61,240.626	64,778.660	761			3,537.344	0.690
2034	1	5,090.177	0.000	61,912.148	67,002.325	761			5,090.177	0.000
2034	2	5,467.106	0.000	56,570.038	62,037.143	761			5,467.106	0.000
2034	3	4,489.815	25.252	55,531.221	60,046.288	761			4,489.815	25.252
2034	4	2,616.160	159.705	56,085.292	58,861.158	761			2,616.160	159.705
2034	5	924.531	807.463	57,194.052	58,926.047	761			924.531	807.463
2034	6	168.059	3,860.584	61,935.283	65,963.927	761			168.059	3,860.584
2034	7	5.133	9,244.207	64,715.233	73,964.572	761			5.133	9,244.207
2034	8	0.000	10,159.353	65,642.198	75,801.551	761			0.000	10,159.353
2034	9	6.507	7,484.013	67,362.762	74,853.282	761			6.507	7,484.013
2034	10	306.571	2,223.540	61,747.349	64,277.460	761			306.571	2,223.540
2034	11	1,499.025	208.108	57,772.404	59,479.537	761			1,499.025	208.108
2034	12	3,476.434	0.691	61,164.654	64,641.779	761			3,476.434	0.691
2035	1	5,005.256	0.000	61,848.840	66,854.096	761			5,005.256	0.000
2035	2	5,375.971	0.000	56,513.481	61,889.452	761			5,375.971	0.000
2035	3	4,415.017	25.311	55,475.599	59,915.927	761			4,415.017	25.311
2035	4	2,572.593	160.083	56,028.294	58,760.971	761			2,572.593	160.083
2035	5	909.136	809.375	57,137.774	58,856.284	761			909.136	809.375
2035	6	165.260	3,869.699	61,876.943	65,911.901	761			165.260	3,869.699
2035	7	5.047	9,265.898	64,656.802	73,927.747	761			5.047	9,265.898
2035	8	0.000	10,182.966	65,585.609	75,768.575	761			0.000	10,182.966
2035	9	6.399	7,501.211	67,303.319	74,810.929	761			6.399	7,501.211

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2035	10	301.436	2,228.578	61,689.466	64,219.480	761			301.436	2,228.578
2035	11	1,473.861	208.572	57,714.076	59,396.509	761			1,473.861	208.572
2035	12	3,417.931	0.693	61,099.729	64,518.352	761			3,417.931	0.693
2036	1	4,921.043	0.000	61,791.000	66,712.043	761			4,921.043	0.000
2036	2	5,285.325	0.000	56,460.769	61,746.095	761			5,285.325	0.000
2036	3	4,340.416	25.372	55,422.803	59,788.591	761			4,340.416	25.372
2036	4	2,529.013	160.458	55,973.130	58,662.600	761			2,529.013	160.458
2036	5	893.697	811.236	57,082.410	58,787.344	761			893.697	811.236
2036	6	162.447	3,878.446	61,818.827	65,859.720	761			162.447	3,878.446
2036	7	4.961	9,286.513	64,598.131	73,889.605	761			4.961	9,286.513
2036	8	0.000	10,205.297	65,528.595	75,733.892	761			0.000	10,205.297
2036	9	6.289	7,517.474	67,243.467	74,767.230	761			6.289	7,517.474
2036	10	296.272	2,233.363	61,631.430	64,161.065	761			296.272	2,233.363
2036	11	1,448.589	209.016	57,656.017	59,313.622	761			1,448.589	209.016
2036	12	3,359.242	0.694	61,035.505	64,395.441	761			3,359.242	0.694
2037	1	4,838.073	0.000	61,734.099	66,572.172	761			4,838.073	0.000
2037	2	5,196.059	0.000	56,409.053	61,605.112	761			5,196.059	0.000
2037	3	4,266.996	25.432	55,371.199	59,663.626	761			4,266.996	25.432
2037	4	2,486.191	160.836	55,919.761	58,566.787	761			2,486.191	160.836
2037	5	878.553	813.134	57,029.409	58,721.095	761			878.553	813.134
2037	6	159.692	3,887.475	61,763.773	65,810.941	761			159.692	3,887.475
2037	7	4.877	9,308.055	64,543.111	73,856.043	761			4.877	9,308.055
2037	8	0.000	10,228.910	65,475.623	75,704.533	761			0.000	10,228.910
2037	9	6.182	7,534.833	67,188.263	74,729.278	761			6.182	7,534.833
2037	10	291.242	2,238.514	61,578.240	64,107.996	761			291.242	2,238.514
2037	11	1,423.992	209.498	57,603.072	59,236.562	761			1,423.992	209.498
2037	12	3,302.202	0.696	60,977.450	64,280.348	761			3,302.202	0.696
2038	1	4,754.693	0.000	61,687.438	66,442.131	761			4,754.693	0.000
2038	2	5,106.511	0.000	56,367.161	61,473.672	761			5,106.511	0.000
2038	3	4,193.458	25.497	55,329.835	59,548.789	761			4,193.458	25.497
2038	4	2,443.340	161.249	55,877.251	58,481.840	761			2,443.340	161.249
2038	5	863.409	815.221	56,987.381	58,666.010	761			863.409	815.221
2038	6	156.939	3,897.441	61,720.235	65,774.614	761			156.939	3,897.441

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2038	7	4.793	9,331.871	64,499.635	73,836.298	761			4.793	9,331.871
2038	8	0.000	10,255.013	65,433.726	75,688.739	761			0.000	10,255.013
2038	9	6.076	7,553.997	67,144.495	74,704.568	761			6.076	7,553.997
2038	10	286.212	2,244.187	61,535.919	64,066.318	761			286.212	2,244.187
2038	11	1,399.386	210.027	57,560.763	59,170.176	761			1,399.386	210.027
2038	12	3,245.131	0.698	60,930.993	64,176.822	761			3,245.131	0.698
2039	1	4,673.875	0.000	61,649.486	66,323.362	761			4,673.875	0.000
2039	2	5,019.721	0.000	56,333.122	61,352.843	761			5,019.721	0.000
2039	3	4,122.197	25.567	55,296.285	59,444.049	761			4,122.197	25.567
2039	4	2,401.830	161.692	55,842.877	58,406.399	761			2,401.830	161.692
2039	5	848.745	817.466	56,953.553	58,619.764	761			848.745	817.466
2039	6	154.275	3,908.206	61,685.415	65,747.895	761			154.275	3,908.206
2039	7	4.712	9,357.738	64,465.156	73,827.605	761			4.712	9,357.738
2039	8	0.000	10,283.563	65,400.859	75,684.422	761			0.000	10,283.563
2039	9	5.973	7,575.133	67,110.606	74,691.712	761			5.973	7,575.133
2039	10	281.367	2,250.498	61,503.602	64,035.468	761			281.367	2,250.498
2039	11	1,375.718	210.621	57,528.914	59,115.253	761			1,375.718	210.621
2039	12	3,190.384	0.700	60,897.039	64,088.123	761			3,190.384	0.700
2040	1	4,593.710	0.000	61,560.351	66,154.062	761			4,593.710	0.000
2040	2	4,933.940	0.000	56,254.419	61,188.359	761			4,933.940	0.000
2040	3	4,052.008	25.632	55,219.875	59,297.515	761			4,052.008	25.632
2040	4	2,361.063	162.113	55,765.545	58,288.721	761			2,361.063	162.113
2040	5	834.380	819.638	56,878.223	58,532.242	761			834.380	819.638
2040	6	151.670	3,918.758	61,608.430	65,678.858	761			151.670	3,918.758
2040	7	4.632	9,383.323	64,389.197	73,777.152	761			4.632	9,383.323
2040	8	0.000	10,311.968	65,328.479	75,640.447	761			0.000	10,311.968
2040	9	5.872	7,596.287	67,035.958	74,638.118	761			5.872	7,596.287
2040	10	276.650	2,256.840	61,432.275	63,965.765	761			276.650	2,256.840
2040	11	1,352.685	211.219	57,458.458	59,022.362	761			1,352.685	211.219
2040	12	3,136.828	0.702	60,818.782	63,956.312	761			3,136.828	0.702
2041	1	4,520.226	0.000	61,502.718	66,022.944	761			4,520.226	0.000
2041	2	4,854.606	0.000	56,200.929	61,055.535	761			4,854.606	0.000
2041	3	3,986.521	25.704	55,165.351	59,177.576	761			3,986.521	25.704

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2041	4	2,322.723	162.556	55,707.901	58,193.179	761			2,322.723	162.556
2041	5	820.770	821.812	56,819.737	58,462.320	761			820.770	821.812
2041	6	149.186	3,928.880	61,546.455	65,624.521	761			149.186	3,928.880
2041	7	4.556	9,406.978	64,326.133	73,737.667	761			4.556	9,406.978
2041	8	0.000	10,337.375	65,266.733	75,604.108	761			0.000	10,337.375
2041	9	5.775	7,614.569	66,970.502	74,590.846	761			5.775	7,614.569
2041	10	272.056	2,262.153	61,368.199	63,902.408	761			272.056	2,262.153
2041	11	1,330.157	211.706	57,393.684	58,935.546	761			1,330.157	211.706
2041	12	3,084.496	0.703	60,747.094	63,832.293	761			3,084.496	0.703
2042	1	4,446.449	0.000	61,444.830	65,891.280	761			4,446.449	0.000
2042	2	4,775.269	0.000	56,148.505	60,923.774	761			4,775.269	0.000
2042	3	3,921.281	25.768	55,113.136	59,060.186	761			3,921.281	25.768
2042	4	2,284.655	162.955	55,653.750	58,101.360	761			2,284.655	162.955
2042	5	807.297	823.808	56,765.701	58,396.805	761			807.297	823.808
2042	6	146.733	3,938.305	61,489.952	65,574.990	761			146.733	3,938.305
2042	7	4.481	9,429.246	64,269.174	73,702.902	761			4.481	9,429.246
2042	8	0.000	10,361.476	65,211.292	75,572.769	761			0.000	10,361.476
2042	9	5.680	7,632.006	66,911.947	74,549.633	761			5.680	7,632.006
2042	10	267.542	2,267.234	61,310.949	63,845.725	761			267.542	2,267.234
2042	11	1,308.023	212.171	57,335.788	58,855.982	761			1,308.023	212.171
2042	12	3,033.002	0.705	60,682.375	63,716.082	761			3,033.002	0.705
2043	1	4,371.899	0.000	61,397.780	65,769.679	761			4,371.899	0.000
2043	2	4,694.909	0.000	56,104.958	60,799.866	761			4,694.909	0.000
2043	3	3,855.045	25.825	55,068.838	58,949.708	761			3,855.045	25.825
2043	4	2,245.915	163.305	55,606.870	58,016.090	761			2,245.915	163.305
2043	5	793.556	825.523	56,718.065	58,337.144	761			793.556	825.523
2043	6	144.226	3,946.261	61,439.368	65,529.856	761			144.226	3,946.261
2043	7	4.404	9,447.750	64,217.555	73,669.709	761			4.404	9,447.750
2043	8	0.000	10,381.225	65,160.567	75,541.793	761			0.000	10,381.225
2043	9	5.582	7,646.103	66,857.932	74,509.616	761			5.582	7,646.103
2043	10	262.912	2,271.293	61,257.809	63,792.014	761			262.912	2,271.293
2043	11	1,285.314	212.539	57,281.781	58,779.634	761			1,285.314	212.539
2043	12	2,980.314	0.706	60,622.944	63,603.964	761			2,980.314	0.706

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2044	1	4,297.923	0.000	61,350.109	65,648.032	761			4,297.923	0.000
2044	2	4,615.559	0.000	56,062.567	60,678.126	761			4,615.559	0.000
2044	3	3,789.968	25.876	55,027.412	58,843.255	761			3,789.968	25.876
2044	4	2,208.036	163.628	55,564.646	57,936.310	761			2,208.036	163.628
2044	5	780.184	827.171	56,676.669	58,284.024	761			780.184	827.171
2044	6	141.798	3,954.191	61,396.835	65,492.823	761			141.798	3,954.191
2044	7	4.330	9,466.834	64,175.417	73,646.581	761			4.330	9,466.834
2044	8	0.000	10,402.296	65,120.295	75,522.591	761			0.000	10,402.296
2044	9	5.488	7,661.717	66,816.307	74,483.512	761			5.488	7,661.717
2044	10	258.496	2,275.958	61,217.987	63,752.441	761			258.496	2,275.958
2044	11	1,263.742	212.978	57,242.424	58,719.144	761			1,263.742	212.978
2044	12	2,930.237	0.707	60,579.354	63,510.298	761			2,930.237	0.707
2045	1	4,225.040	0.000	61,319.525	65,544.565	761			4,225.040	0.000
2045	2	4,537.111	0.000	56,034.299	60,571.409	761			4,537.111	0.000
2045	3	3,725.407	25.931	54,998.720	58,750.058	761			3,725.407	25.931
2045	4	2,170.351	163.969	55,534.490	57,868.810	761			2,170.351	163.969
2045	5	766.844	828.867	56,646.248	58,241.959	761			766.844	828.867
2045	6	139.369	3,962.185	61,364.771	65,466.326	761			139.369	3,962.185
2045	7	4.256	9,485.735	64,142.946	73,632.937	761			4.256	9,485.735
2045	8	0.000	10,422.825	65,088.642	75,511.467	761			0.000	10,422.825
2045	9	5.394	7,676.658	66,782.884	74,464.935	761			5.394	7,676.658
2045	10	254.045	2,280.347	61,185.387	63,719.779	761			254.045	2,280.347
2045	11	1,241.958	213.385	57,209.577	58,664.919	761			1,241.958	213.385
2045	12	2,879.691	0.709	60,543.067	63,423.467	761			2,879.691	0.709
2046	1	4,154.390	0.000	61,295.501	65,449.891	761			4,154.390	0.000
2046	2	4,461.199	0.000	56,012.530	60,473.728	761			4,461.199	0.000
2046	3	3,663.039	25.984	54,977.026	58,666.049	761			3,663.039	25.984
2046	4	2,133.993	164.307	55,511.976	57,810.276	761			2,133.993	164.307
2046	5	753.989	830.565	56,623.771	58,208.325	761			753.989	830.565
2046	6	137.031	3,970.254	61,341.262	65,448.547	761			137.031	3,970.254
2046	7	4.184	9,504.928	64,119.251	73,628.364	761			4.184	9,504.928
2046	8	0.000	10,443.763	65,065.591	75,509.354	761			0.000	10,443.763
2046	9	5.303	7,691.948	66,758.549	74,455.800	761			5.303	7,691.948

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2046	10	249.768	2,284.850	61,161.613	63,696.230	761			249.768	2,284.850
2046	11	1,221.024	213.802	57,185.562	58,620.388	761			1,221.024	213.802
2046	12	2,831.107	0.710	60,516.379	63,348.196	761			2,831.107	0.710
2047	1	4,085.459	0.000	61,284.835	65,370.294	761			4,085.459	0.000
2047	2	4,387.074	0.000	56,002.473	60,389.547	761			4,387.074	0.000
2047	3	3,602.092	26.038	54,966.623	58,594.753	761			3,602.092	26.038
2047	4	2,098.437	164.643	55,500.806	57,763.886	761			2,098.437	164.643
2047	5	741.410	832.247	56,612.281	58,185.937	761			741.410	832.247
2047	6	134.742	3,978.210	61,328.945	65,441.898	761			134.742	3,978.210
2047	7	4.114	9,523.801	64,106.593	73,634.509	761			4.114	9,523.801
2047	8	0.000	10,464.321	65,053.088	75,517.408	761			0.000	10,464.321
2047	9	5.214	7,706.950	66,745.160	74,457.324	761			5.214	7,706.950
2047	10	245.579	2,289.268	61,148.397	63,683.244	761			245.579	2,289.268
2047	11	1,200.526	214.212	57,172.104	58,586.842	761			1,200.526	214.212
2047	12	2,783.573	0.712	60,501.572	63,285.856	761			2,783.573	0.712
2048	1	4,017.873	0.000	61,282.588	65,300.462	761			4,017.873	0.000
2048	2	4,314.509	0.000	56,000.505	60,315.014	761			4,314.509	0.000
2048	3	3,542.523	26.090	54,964.748	58,533.361	761			3,542.523	26.090
2048	4	2,063.733	164.971	55,498.865	57,727.570	761			2,063.733	164.971
2048	5	729.149	833.906	56,610.378	58,173.433	761			729.149	833.906
2048	6	132.514	3,986.154	61,327.034	65,445.702	761			132.514	3,986.154
2048	7	4.046	9,542.865	64,104.795	73,651.706	761			4.046	9,542.865
2048	8	0.000	10,485.340	65,051.501	75,536.841	761			0.000	10,485.340
2048	9	5.128	7,722.484	66,743.658	74,471.270	761			5.128	7,722.484
2048	10	241.525	2,293.903	61,147.136	63,682.564	761			241.525	2,293.903
2048	11	1,180.721	214.648	57,171.059	58,566.428	761			1,180.721	214.648
2048	12	2,737.677	0.713	60,500.631	63,239.021	761			2,737.677	0.713
2049	1	3,953.054	0.000	61,293.215	65,246.269	761			3,953.054	0.000
2049	2	4,244.909	0.000	56,010.067	60,254.976	761			4,244.909	0.000
2049	3	3,485.383	26.142	54,974.229	58,485.754	761			3,485.383	26.142
2049	4	2,030.442	165.298	55,508.562	57,704.302	761			2,030.442	165.298
2049	5	717.386	835.560	56,619.941	58,172.887	761			717.386	835.560
2049	6	130.377	3,994.065	61,336.954	65,461.395	761			130.377	3,994.065

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2049	7	3,981	9,561,838	64,114,753	73,680,573	761			3,981	9,561,838
2049	8	0,000	10,506,244	65,061,174	75,567,418	761			0,000	10,506,244
2049	9	5,045	7,737,919	66,753,825	74,496,789	761			5,045	7,737,919
2049	10	237,634	2,298,504	61,157,061	63,693,199	761			237,634	2,298,504
2049	11	1,161,709	215,080	57,181,089	58,557,878	761			1,161,709	215,080
2049	12	2,693,624	0,714	60,511,877	63,206,215	761			2,693,624	0,714
2050	1	3,890,552	0,000	61,314,779	65,205,331	761			3,890,552	0,000
2050	2	4,177,856	0,000	56,029,741	60,207,597	761			4,177,856	0,000
2050	3	3,430,385	26,198	54,993,987	58,450,569	761			3,430,385	26,198
2050	4	1,998,429	165,654	55,529,127	57,693,210	761			1,998,429	165,654
2050	5	706,086	837,371	56,640,550	58,184,007	761			706,086	837,371
2050	6	128,325	4,002,784	61,358,608	65,489,718	761			128,325	4,002,784
2050	7	3,919	9,582,881	64,136,695	73,723,495	761			3,919	9,582,881
2050	8	0,000	10,529,569	65,082,640	75,612,209	761			0,000	10,529,569
2050	9	4,966	7,755,259	66,776,591	74,536,816	761			4,966	7,755,259
2050	10	233,913	2,303,706	61,179,424	63,717,044	761			233,913	2,303,706
2050	11	1,143,546	215,572	57,203,812	58,562,930	761			1,143,546	215,572
2050	12	2,651,578	0,716	60,537,344	63,189,638	761			2,651,578	0,716
2051	1	3,829,144	0,000	61,339,415	65,168,559	761			3,829,144	0,000
2051	2	4,112,012	0,000	56,052,349	60,164,360	761			4,112,012	0,000
2051	3	3,376,406	26,255	55,016,818	58,419,479	761			3,376,406	26,255
2051	4	1,967,027	166,020	55,553,039	57,686,086	761			1,967,027	166,020
2051	5	695,007	839,238	56,664,652	58,198,897	761			695,007	839,238
2051	6	126,315	4,011,810	61,384,059	65,522,184	761			126,315	4,011,810
2051	7	3,857	9,604,737	64,162,591	73,771,185	761			3,857	9,604,737
2051	8	0,000	10,553,873	65,108,067	75,661,940	761			0,000	10,553,873
2051	9	4,889	7,773,389	66,803,667	74,581,945	761			4,889	7,773,389
2051	10	230,275	2,309,163	61,206,111	63,745,549	761			230,275	2,309,163
2051	11	1,125,796	216,090	57,231,012	58,572,898	761			1,125,796	216,090
2051	12	2,610,505	0,718	60,567,886	63,179,109	761			2,610,505	0,718
2052	1	3,769,152	0,000	61,369,203	65,138,354	761			3,769,152	0,000
2052	2	4,047,671	0,000	56,079,512	60,127,183	761			4,047,671	0,000
2052	3	3,323,648	26,315	55,044,076	58,394,039	761			3,323,648	26,315

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Heating	Cooling	Other	Total Energy	Add-Factor	Add-Factor	Add-Factor	Heating	Cooling
2052	4	1,936.327	166.404	55,581.422	57,684.153	761			1,936.327	166.404
2052	5	684.173	841.197	56,693.093	58,218.464	761			684.173	841.197
2052	6	124.349	4,021.261	61,413.924	65,559.533	761			124.349	4,021.261
2052	7	3,797	9,627.579	64,192.813	73,824.189	761			3,797	9,627.579
2052	8	0.000	10,579.226	65,137.583	75,716.808	761			0.000	10,579.226
2052	9	4.813	7,792.264	66,834.917	74,631.994	761			4.813	7,792.264
2052	10	226.713	2,314.833	61,236.739	63,778.285	761			226.713	2,314.833
2052	11	1,108.413	216.627	57,262.058	58,587.097	761			1,108.413	216.627
2052	12	2,570.272	0.720	60,602.573	63,173.565	761			2,570.272	0.720
2053	1	3,710.373	0.000	61,403.118	65,113.491	761			3,710.373	0.000
2053	2	3,984.605	0.000	56,110.254	60,094.859	761			3,984.605	0.000
2053	3	3,271.913	26.377	55,074.736	58,373.027	761			3,271.913	26.377
2053	4	1,906.209	166.798	55,613.161	57,686.168	761			1,906.209	166.798
2053	5	673.541	843.201	56,724.710	58,241.453	761			673.541	843.201
2053	6	122.418	4,030.900	61,446.935	65,600.253	761			122.418	4,030.900
2053	7	3,738	9,650.813	64,226.040	73,880.591	761			3,738	9,650.813
2053	8	0.000	10,604.945	65,169.859	75,774.803	761			0.000	10,604.945
2053	9	4,738	7,811.355	66,868.892	74,684.986	761			4,738	7,811.355
2053	10	223.209	2,320.552	61,269.853	63,813.614	761			223.209	2,320.552
2053	11	1,091.307	217.166	57,295.436	58,603.909	761			1,091.307	217.166
2053	12	2,530.664	0.721	60,639.685	63,171.071	761			2,530.664	0.721
2054	1	3,652.519	0.000	61,439.520	65,092.040	761			3,652.519	0.000
2054	2	3,922.531	0.000	56,143.230	60,065.760	761			3,922.531	0.000
2054	3	3,220.992	26.439	55,107.602	58,355.033	761			3,220.992	26.439
2054	4	1,876.565	167.194	55,647.164	57,690.923	761			1,876.565	167.194
2054	5	663.075	845.212	56,758.565	58,266.852	761			663.075	845.212
2054	6	120.518	4,040.571	61,482.260	65,643.349	761			120.518	4,040.571
2054	7	3,681	9,674.124	64,261.572	73,939.377	761			3,681	9,674.124
2054	8	0.000	10,630.750	65,204.350	75,835.099	761			0.000	10,630.750
2054	9	4,665	7,830.510	66,905.172	74,740.347	761			4,665	7,830.510
2054	10	219.760	2,326.289	61,305.187	63,851.236	761			219.760	2,326.289
2054	11	1,074.468	217.708	57,331.022	58,623.197	761			1,074.468	217.708
2054	12	2,491.671	0.723	60,679.219	63,171.614	761			2,491.671	0.723

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2000	1	53,175.435	61,044.889
2000	2	47,041.474	56,730.970
2000	3	48,368.193	53,322.888
2000	4	47,550.616	51,092.464
2000	5	50,581.533	53,782.928
2000	6	54,921.898	58,730.319
2000	7	55,336.548	62,705.253
2000	8	56,713.848	64,237.565
2000	9	58,947.212	67,782.252
2000	10	55,520.140	58,393.299
2000	11	53,057.364	55,034.347
2000	12	54,089.960	61,982.633
2001	1	53,404.388	64,458.592
2001	2	51,078.998	59,913.538
2001	3	47,915.477	55,197.014
2001	4	47,723.697	52,491.082
2001	5	52,537.425	55,121.961
2001	6	57,084.670	60,321.169
2001	7	57,001.345	65,291.049
2001	8	58,099.668	71,839.079
2001	9	61,181.235	68,984.160
2001	10	55,456.075	57,138.582
2001	11	50,894.081	52,680.609
2001	12	55,545.783	58,403.802
2002	1	55,744.077	63,109.914
2002	2	50,411.602	56,764.506
2002	3	50,194.919	56,608.224
2002	4	51,696.216	57,282.373
2002	5	50,912.491	53,996.313
2002	6	56,399.552	60,145.781
2002	7	57,689.181	71,819.092
2002	8	58,078.818	73,361.530
2002	9	61,062.504	71,185.805

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2002	10	56,250.212	61,028.079
2002	11	52,065.296	55,714.825
2002	12	56,291.637	62,975.287
2003	1	57,820.218	65,864.773
2003	2	52,980.317	63,111.128
2003	3	50,219.895	58,824.270
2003	4	52,601.323	56,375.862
2003	5	52,926.757	54,794.668
2003	6	57,014.536	58,224.130
2003	7	59,733.215	67,881.288
2003	8	60,903.290	69,656.125
2003	9	60,288.016	69,562.521
2003	10	55,717.821	58,086.225
2003	11	51,743.708	53,949.940
2003	12	58,170.239	63,093.948
2004	1	58,062.358	65,262.412
2004	2	52,553.707	62,796.496
2004	3	51,133.191	57,696.181
2004	4	52,292.886	56,098.970
2004	5	54,436.313	58,240.027
2004	6	57,378.603	62,304.787
2004	7	58,432.264	65,598.180
2004	8	58,970.506	66,162.160
2004	9	64,297.230	70,317.610
2004	10	58,552.725	61,212.633
2004	11	53,418.853	55,320.057
2004	12	59,633.128	64,458.398
2005	1	58,834.178	66,961.940
2005	2	53,456.083	62,307.545
2005	3	55,887.416	63,312.860
2005	4	54,387.239	58,788.440
2005	5	52,639.701	54,773.708
2005	6	61,325.882	65,772.112

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2005	7	60,384.430	73,945.570
2005	8	62,474.483	76,812.971
2005	9	66,832.043	76,297.475
2005	10	59,125.254	63,956.934
2005	11	53,602.553	55,991.545
2005	12	57,386.456	64,231.043
2006	1	59,869.882	67,056.859
2006	2	54,179.193	60,240.912
2006	3	51,571.546	58,364.803
2006	4	51,909.559	55,903.701
2006	5	55,476.218	56,515.795
2006	6	59,743.267	64,070.345
2006	7	64,335.075	72,516.578
2006	8	62,099.769	75,592.757
2006	9	65,349.797	71,147.637
2006	10	59,567.642	60,922.504
2006	11	55,154.075	58,349.412
2006	12	59,674.799	64,276.485
2007	1	62,014.610	67,281.388
2007	2	56,906.364	66,137.287
2007	3	54,322.190	62,649.614
2007	4	57,221.345	60,947.701
2007	5	57,972.649	60,260.593
2007	6	63,898.258	70,260.604
2007	7	67,204.701	77,911.671
2007	8	67,507.419	78,899.669
2007	9	71,228.311	81,035.066
2007	10	62,948.273	68,307.768
2007	11	59,706.776	62,630.756
2007	12	63,970.633	69,745.231
2008	1	66,002.683	73,007.217
2008	2	59,720.928	68,364.207
2008	3	57,565.151	65,473.303

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2008	4	58,186.173	62,608.776
2008	5	58,834.179	60,400.800
2008	6	63,442.588	67,853.809
2008	7	67,174.115	75,461.537
2008	8	69,200.413	79,555.530
2008	9	71,106.553	77,706.844
2008	10	65,068.311	67,377.467
2008	11	61,028.022	63,454.350
2008	12	62,474.894	68,838.976
2009	1	66,353.936	74,462.760
2009	2	59,346.713	68,553.690
2009	3	58,041.089	63,917.868
2009	4	58,480.792	61,742.286
2009	5	59,436.021	61,244.273
2009	6	62,290.845	64,829.248
2009	7	65,162.590	72,155.016
2009	8	66,367.388	73,187.401
2009	9	68,325.199	73,067.942
2009	10	62,684.167	64,546.860
2009	11	60,417.019	62,275.665
2009	12	64,119.504	68,496.222
2010	1	64,640.639	72,218.790
2010	2	59,316.383	67,006.064
2010	3	56,840.519	62,881.005
2010	4	58,145.751	60,935.719
2010	5	57,426.908	58,830.831
2010	6	63,717.970	69,493.829
2010	7	66,542.279	77,777.461
2010	8	67,947.987	82,799.257
2010	9	66,199.377	76,109.552
2010	10	62,063.651	64,720.587
2010	11	57,214.714	59,205.184
2010	12	60,315.788	65,693.355

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2011	1	63,668.570	71,333.541
2011	2	53,339.491	61,712.914
2011	3	59,121.782	65,102.353
2011	4	54,666.310	58,548.685
2011	5	58,024.056	60,106.941
2011	6	62,049.268	67,813.012
2011	7	66,837.641	77,276.588
2011	8	66,086.987	81,753.553
2011	9	66,916.318	74,858.462
2011	10	62,220.872	63,849.091
2011	11	58,654.386	60,418.914
2011	12	59,858.687	63,432.164
2012	1	63,539.377	68,729.931
2012	2	56,937.668	62,834.833
2012	3	57,470.359	62,129.085
2012	4	57,565.559	60,220.758
2012	5	58,498.178	60,488.266
2012	6	63,980.941	70,242.310
2012	7	72,360.154	88,033.895
2012	8	66,930.929	80,772.404
2012	9	68,067.450	75,207.904
2012	10	60,766.504	62,515.816
2012	11	58,331.495	60,847.433
2012	12	61,697.068	65,161.033
2013	1	62,730.652	68,216.509
2013	2	57,486.376	63,998.954
2013	3	57,294.243	63,183.748
2013	4	58,361.993	62,619.440
2013	5	59,262.607	61,513.732
2013	6	62,269.603	66,747.581
2013	7	66,601.300	75,968.759
2013	8	66,546.747	74,176.972
2013	9	69,986.640	78,603.007

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2013	10	63,012.757	66,412.949
2013	11	59,677.309	61,967.577
2013	12	62,792.241	67,923.761
2014	1	65,386.782	72,933.719
2014	2	57,916.742	66,759.477
2014	3	58,421.663	66,097.603
2014	4	56,992.934	61,165.277
2014	5	59,129.624	61,052.462
2014	6	61,019.306	66,408.586
2014	7	63,300.822	72,078.898
2014	8	64,100.088	70,682.057
2014	9	67,372.878	76,399.582
2014	10	60,365.980	62,083.846
2014	11	58,198.363	60,339.624
2014	12	63,523.961	68,675.302
2015	1	66,454.711	72,656.614
2015	2	58,760.138	66,248.380
2015	3	57,954.274	65,753.863
2015	4	58,420.749	61,657.382
2015	5	58,041.457	60,062.687
2015	6	62,216.256	67,014.212
2015	7	64,720.393	71,181.122
2015	8	67,639.481	78,003.322
2015	9	68,669.732	76,521.972
2015	10	63,409.622	65,977.680
2015	11	58,733.232	60,029.934
2015	12	62,779.856	66,018.865
2016	1	63,985.226	69,030.559
2016	2	58,208.418	65,037.148
2016	3	56,641.624	61,573.894
2016	4	57,771.348	60,555.865
2016	5	57,286.079	58,721.355
2016	6	64,529.784	69,552.811

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2016	7	70,367.525	78,849.074
2016	8	70,473.113	82,978.274
2016	9	69,656.430	79,295.020
2016	10	65,771.318	69,257.379
2016	11	60,153.519	61,629.372
2016	12	62,675.243	67,014.009
2017	1	65,398.451	72,128.296
2017	2	58,456.704	63,868.419
2017	3	56,774.260	60,858.132
2017	4	56,547.033	59,763.421
2017	5	56,730.997	58,476.379
2017	6	64,344.907	68,092.756
2017	7	68,695.683	76,614.851
2017	8	70,276.337	78,076.864
2017	9	70,556.636	74,528.598
2017	10	64,682.965	69,280.943
2017	11	58,620.329	60,989.181
2017	12	62,628.162	67,007.844
2018	1	64,978.552	73,011.473
2018	2	57,823.539	64,873.749
2018	3	56,843.605	62,145.659
2018	4	58,207.548	62,731.157
2018	5	58,934.471	61,526.491
2018	6	65,770.155	71,186.275
2018	7	67,903.355	77,786.776
2018	8	68,445.608	78,165.044
2018	9	68,008.745	77,319.406
2018	10	60,429.873	64,550.403
2018	11	55,174.413	58,414.889
2018	12	62,166.903	67,478.537
2019	1	60,727.575	66,107.680
2019	2	58,276.888	65,103.743
2019	3	57,216.741	62,848.955

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2019	4	57,819.658	61,249.004
2019	5	58,901.391	60,874.735
2019	6	63,692.120	67,816.035
2019	7	66,459.617	75,836.186
2019	8	67,305.295	77,597.389
2019	9	69,066.601	76,648.004
2019	10	63,369.933	65,999.879
2019	11	59,365.092	61,439.473
2019	12	62,896.738	67,218.122
2020	1	63,517.595	69,852.672
2020	2	57,983.522	64,779.232
2020	3	56,899.335	62,498.778
2020	4	58,223.932	61,628.317
2020	5	59,290.321	61,245.455
2020	6	64,054.140	68,131.057
2020	7	66,809.747	76,072.679
2020	8	67,668.860	77,834.831
2020	9	69,426.599	76,919.020
2020	10	63,751.984	66,352.954
2020	11	59,762.377	61,819.666
2020	12	63,269.067	67,557.883
2021	1	63,905.315	70,202.455
2021	2	58,437.054	65,200.379
2021	3	57,384.557	62,964.216
2021	4	57,969.451	61,365.688
2021	5	59,065.922	61,016.694
2021	6	63,847.441	67,913.567
2021	7	66,625.733	75,871.595
2021	8	67,509.859	77,665.204
2021	9	69,276.023	76,765.451
2021	10	63,618.069	66,220.354
2021	11	59,637.152	61,700.611
2021	12	63,137.801	67,441.780

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2022	1	63,813.337	70,151.192
2022	2	58,355.491	65,162.863
2022	3	57,303.196	62,918.839
2022	4	57,883.255	61,300.215
2022	5	58,976.599	60,935.026
2022	6	63,749.120	67,818.352
2022	7	66,520.388	75,767.794
2022	8	67,400.351	77,553.507
2022	9	69,153.114	76,638.023
2022	10	63,490.660	66,092.334
2022	11	59,501.317	61,571.840
2022	12	62,982.631	67,302.567
2023	1	63,678.758	69,877.764
2023	2	58,232.685	64,890.329
2023	3	57,181.185	62,673.548
2023	4	57,758.420	61,102.891
2023	5	58,855.356	60,784.576
2023	6	63,627.395	67,673.657
2023	7	66,404.476	75,609.810
2023	8	67,296.200	77,406.601
2023	9	69,055.090	76,511.722
2023	10	63,407.485	65,994.214
2023	11	59,431.031	61,464.287
2023	12	62,913.908	67,150.202
2024	1	63,632.926	69,719.311
2024	2	58,197.554	64,736.036
2024	3	57,152.365	62,548.304
2024	4	57,734.410	61,023.419
2024	5	58,836.459	60,746.137
2024	6	63,611.785	67,654.224
2024	7	66,391.515	75,596.971
2024	8	67,284.953	77,396.161
2024	9	69,043.536	76,500.678

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2024	10	63,395.514	65,976.050
2024	11	59,417.508	61,419.824
2024	12	62,895.301	67,059.183
2025	1	63,620.518	69,603.186
2025	2	58,181.405	64,607.001
2025	3	57,131.298	62,433.258
2025	4	57,707.544	60,940.985
2025	5	58,804.924	60,694.162
2025	6	63,574.373	67,609.572
2025	7	66,350.014	75,545.051
2025	8	67,241.514	77,339.737
2025	9	68,995.055	76,441.407
2025	10	63,346.156	65,916.367
2025	11	59,366.092	61,334.191
2025	12	62,836.983	66,921.974
2026	1	63,485.965	69,356.038
2026	2	58,059.397	64,363.718
2026	3	57,009.856	62,211.948
2026	4	57,581.921	60,756.846
2026	5	58,680.115	60,547.544
2026	6	63,444.647	67,470.369
2026	7	66,220.231	75,401.230
2026	8	67,116.361	77,199.051
2026	9	68,864.283	76,298.858
2026	10	63,219.837	65,779.662
2026	11	59,240.055	61,174.131
2026	12	62,699.352	66,706.309
2027	1	63,362.668	69,123.066
2027	2	57,949.832	64,136.690
2027	3	56,902.988	62,008.904
2027	4	57,473.725	60,592.699
2027	5	58,575.039	60,422.195
2027	6	63,338.062	67,357.545

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2027	7	66,116.393	75,291.805
2027	8	67,019.148	77,097.000
2027	9	68,765.945	76,197.744
2027	10	63,127.975	65,680.988
2027	11	59,151.490	61,054.905
2027	12	62,605.177	66,541.566
2028	1	63,284.359	68,942.319
2028	2	57,882.054	63,959.602
2028	3	56,838.374	61,855.080
2028	4	57,409.314	60,476.700
2028	5	58,512.998	60,342.744
2028	6	63,275.088	67,295.289
2028	7	66,054.341	75,239.556
2028	8	66,959.716	77,048.533
2028	9	68,703.843	76,143.504
2028	10	63,067.553	65,616.852
2028	11	59,090.411	60,964.509
2028	12	62,537.042	66,404.766
2029	1	63,227.388	68,789.926
2029	2	57,829.408	63,804.047
2029	3	56,784.815	61,716.666
2029	4	57,352.742	60,370.635
2029	5	58,455.554	60,268.502
2029	6	63,214.050	67,234.724
2029	7	65,991.956	75,185.264
2029	8	66,898.342	76,995.481
2029	9	68,638.687	76,083.917
2029	10	63,003.687	65,548.605
2029	11	59,025.871	60,870.911
2029	12	62,464.806	66,264.584
2030	1	63,072.520	68,536.329
2030	2	57,689.105	63,557.363
2030	3	56,645.222	61,489.468

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2030	4	57,208.384	60,175.132
2030	5	58,312.208	60,107.168
2030	6	63,065.209	67,083.117
2030	7	65,843.317	75,037.651
2030	8	66,755.418	76,853.723
2030	9	68,489.988	75,935.946
2030	10	62,860.702	65,399.865
2030	11	58,883.876	60,699.511
2030	12	62,309.763	66,041.393
2031	1	62,937.928	68,301.301
2031	2	57,569.065	63,329.670
2031	3	56,527.522	61,283.560
2031	4	57,088.323	60,003.889
2031	5	58,194.407	59,971.894
2031	6	62,944.095	66,961.807
2031	7	65,723.267	74,925.143
2031	8	66,640.586	76,747.521
2031	9	68,370.949	75,823.281
2031	10	62,746.462	65,281.630
2031	11	58,770.521	60,557.217
2031	12	62,185.393	65,849.466
2032	1	62,833.986	68,101.612
2032	2	57,475.634	63,133.376
2032	3	56,435.198	61,106.772
2032	4	56,993.274	59,859.776
2032	5	58,100.376	59,861.443
2032	6	62,846.770	66,866.065
2032	7	65,626.352	74,839.525
2032	8	66,547.637	76,667.163
2032	9	68,274.420	75,735.961
2032	10	62,653.783	65,185.980
2032	11	58,678.584	60,437.362
2032	12	62,085.205	65,684.017

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2033	1	62,744.478	67,922.343
2033	2	57,395.777	62,957.245
2033	3	56,356.837	60,949.496
2033	4	56,913.408	59,734.266
2033	5	58,022.048	59,768.379
2033	6	62,766.244	66,789.723
2033	7	65,546.511	74,776.819
2033	8	66,471.213	76,609.797
2033	9	68,195.094	75,670.625
2033	10	62,577.530	65,108.573
2033	11	58,602.766	60,335.759
2033	12	62,001.626	65,539.660
2034	1	62,673.148	67,763.325
2034	2	57,331.038	62,798.143
2034	3	56,292.221	60,807.288
2034	4	56,846.292	59,622.158
2034	5	57,955.052	59,687.047
2034	6	62,696.283	66,724.927
2034	7	65,476.233	74,725.572
2034	8	66,403.198	76,562.551
2034	9	68,123.762	75,614.282
2034	10	62,508.349	65,038.460
2034	11	58,533.404	60,240.537
2034	12	61,925.654	65,402.779
2035	1	62,609.840	67,615.096
2035	2	57,274.481	62,650.452
2035	3	56,236.599	60,676.927
2035	4	56,789.294	59,521.971
2035	5	57,898.774	59,617.284
2035	6	62,637.943	66,672.901
2035	7	65,417.802	74,688.747
2035	8	66,346.609	76,529.575
2035	9	68,064.319	75,571.929

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2035	10	62,450.466	64,980.480
2035	11	58,475.076	60,157.509
2035	12	61,860.729	65,279.352
2036	1	62,552.000	67,473.043
2036	2	57,221.769	62,507.095
2036	3	56,183.803	60,549.591
2036	4	56,734.130	59,423.600
2036	5	57,843.410	59,548.344
2036	6	62,579.827	66,620.720
2036	7	65,359.131	74,650.605
2036	8	66,289.595	76,494.892
2036	9	68,004.467	75,528.230
2036	10	62,392.430	64,922.065
2036	11	58,417.017	60,074.622
2036	12	61,796.505	65,156.441
2037	1	62,495.099	67,333.172
2037	2	57,170.053	62,366.112
2037	3	56,132.199	60,424.626
2037	4	56,680.761	59,327.787
2037	5	57,790.409	59,482.095
2037	6	62,524.773	66,571.941
2037	7	65,304.111	74,617.043
2037	8	66,236.623	76,465.533
2037	9	67,949.263	75,490.278
2037	10	62,339.240	64,868.996
2037	11	58,364.072	59,997.562
2037	12	61,738.450	65,041.348
2038	1	62,448.438	67,203.131
2038	2	57,128.161	62,234.672
2038	3	56,090.835	60,309.789
2038	4	56,638.251	59,242.840
2038	5	57,748.381	59,427.010
2038	6	62,481.235	66,535.614

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2038	7	65,260.635	74,597.298
2038	8	66,194.726	76,449.739
2038	9	67,905.495	75,465.568
2038	10	62,296.919	64,827.318
2038	11	58,321.763	59,931.176
2038	12	61,691.993	64,937.822
2039	1	62,410.486	67,084.362
2039	2	57,094.122	62,113.843
2039	3	56,057.285	60,205.049
2039	4	56,603.877	59,167.399
2039	5	57,714.553	59,380.764
2039	6	62,446.415	66,508.895
2039	7	65,226.156	74,588.605
2039	8	66,161.859	76,445.422
2039	9	67,871.606	75,452.712
2039	10	62,264.602	64,796.468
2039	11	58,289.914	59,876.253
2039	12	61,658.039	64,849.123
2040	1	62,321.351	66,915.062
2040	2	57,015.419	61,949.359
2040	3	55,980.875	60,058.515
2040	4	56,526.545	59,049.721
2040	5	57,639.223	59,293.242
2040	6	62,369.430	66,439.858
2040	7	65,150.197	74,538.152
2040	8	66,089.479	76,401.447
2040	9	67,796.958	75,399.118
2040	10	62,193.275	64,726.765
2040	11	58,219.458	59,783.362
2040	12	61,579.782	64,717.312
2041	1	62,263.718	66,783.944
2041	2	56,961.929	61,816.535
2041	3	55,926.351	59,938.576

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2041	4	56,468.901	58,954.179
2041	5	57,580.737	59,223.320
2041	6	62,307.455	66,385.521
2041	7	65,087.133	74,498.667
2041	8	66,027.733	76,365.108
2041	9	67,731.502	75,351.846
2041	10	62,129.199	64,663.408
2041	11	58,154.684	59,696.546
2041	12	61,508.094	64,593.293
2042	1	62,205.830	66,652.280
2042	2	56,909.505	61,684.774
2042	3	55,874.136	59,821.186
2042	4	56,414.750	58,862.360
2042	5	57,526.701	59,157.805
2042	6	62,250.952	66,335.990
2042	7	65,030.174	74,463.902
2042	8	65,972.292	76,333.769
2042	9	67,672.947	75,310.633
2042	10	62,071.949	64,606.725
2042	11	58,096.788	59,616.982
2042	12	61,443.375	64,477.082
2043	1	62,158.780	66,530.679
2043	2	56,865.958	61,560.866
2043	3	55,829.838	59,710.708
2043	4	56,367.870	58,777.090
2043	5	57,479.065	59,098.144
2043	6	62,200.368	66,290.856
2043	7	64,978.555	74,430.709
2043	8	65,921.567	76,302.793
2043	9	67,618.932	75,270.616
2043	10	62,018.809	64,553.014
2043	11	58,042.781	59,540.634
2043	12	61,383.944	64,364.964

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2044	1	62,111.109	66,409.032
2044	2	56,823.567	61,439.126
2044	3	55,788.412	59,604.255
2044	4	56,325.646	58,697.310
2044	5	57,437.669	59,045.024
2044	6	62,157.835	66,253.823
2044	7	64,936.417	74,407.581
2044	8	65,881.295	76,283.591
2044	9	67,577.307	75,244.512
2044	10	61,978.987	64,513.441
2044	11	58,003.424	59,480.144
2044	12	61,340.354	64,271.298
2045	1	62,080.525	66,305.565
2045	2	56,795.299	61,332.409
2045	3	55,759.720	59,511.058
2045	4	56,295.490	58,629.810
2045	5	57,407.248	59,002.959
2045	6	62,125.771	66,227.326
2045	7	64,903.946	74,393.937
2045	8	65,849.642	76,272.467
2045	9	67,543.884	75,225.935
2045	10	61,946.387	64,480.779
2045	11	57,970.577	59,425.919
2045	12	61,304.067	64,184.467
2046	1	62,056.501	66,210.891
2046	2	56,773.530	61,234.728
2046	3	55,738.026	59,427.049
2046	4	56,272.976	58,571.276
2046	5	57,384.771	58,969.325
2046	6	62,102.262	66,209.547
2046	7	64,880.251	74,389.364
2046	8	65,826.591	76,270.354
2046	9	67,519.549	75,216.800

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2046	10	61,922.613	64,457.230
2046	11	57,946.562	59,381.388
2046	12	61,277.379	64,109.196
2047	1	62,045.835	66,131.294
2047	2	56,763.473	61,150.547
2047	3	55,727.623	59,355.753
2047	4	56,261.806	58,524.886
2047	5	57,373.281	58,946.937
2047	6	62,089.945	66,202.898
2047	7	64,867.593	74,395.509
2047	8	65,814.088	76,278.408
2047	9	67,506.160	75,218.324
2047	10	61,909.397	64,444.244
2047	11	57,933.104	59,347.842
2047	12	61,262.572	64,046.856
2048	1	62,043.588	66,061.462
2048	2	56,761.505	61,076.014
2048	3	55,725.748	59,294.361
2048	4	56,259.865	58,488.570
2048	5	57,371.378	58,934.433
2048	6	62,088.034	66,206.702
2048	7	64,865.795	74,412.706
2048	8	65,812.501	76,297.841
2048	9	67,504.658	75,232.270
2048	10	61,908.136	64,443.564
2048	11	57,932.059	59,327.428
2048	12	61,261.631	64,000.021
2049	1	62,054.215	66,007.269
2049	2	56,771.067	61,015.976
2049	3	55,735.229	59,246.754
2049	4	56,269.562	58,465.302
2049	5	57,380.941	58,933.887
2049	6	62,097.954	66,222.395

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2049	7	64,875.753	74,441.573
2049	8	65,822.174	76,328.418
2049	9	67,514.825	75,257.789
2049	10	61,918.061	64,454.199
2049	11	57,942.089	59,318.878
2049	12	61,272.877	63,967.215
2050	1	62,075.779	65,966.331
2050	2	56,790.741	60,968.597
2050	3	55,754.987	59,211.569
2050	4	56,290.127	58,454.210
2050	5	57,401.550	58,945.007
2050	6	62,119.608	66,250.718
2050	7	64,897.695	74,484.495
2050	8	65,843.640	76,373.209
2050	9	67,537.591	75,297.816
2050	10	61,940.424	64,478.044
2050	11	57,964.812	59,323.930
2050	12	61,298.344	63,950.638
2051	1	62,100.415	65,929.559
2051	2	56,813.349	60,925.360
2051	3	55,777.818	59,180.479
2051	4	56,314.039	58,447.086
2051	5	57,425.652	58,959.897
2051	6	62,145.059	66,283.184
2051	7	64,923.591	74,532.185
2051	8	65,869.067	76,422.940
2051	9	67,564.667	75,342.945
2051	10	61,967.111	64,506.549
2051	11	57,992.012	59,333.898
2051	12	61,328.886	63,940.109
2052	1	62,130.203	65,899.354
2052	2	56,840.512	60,888.183
2052	3	55,805.076	59,155.039

Indiana Michigan Power Company - Michigan
Long-Term Commercial Model Output

Year	Month	Other	Total Energy
2052	4	56,342.422	58,445.153
2052	5	57,454.093	58,979.464
2052	6	62,174.924	66,320.533
2052	7	64,953.813	74,585.189
2052	8	65,898.583	76,477.808
2052	9	67,595.917	75,392.994
2052	10	61,997.739	64,539.285
2052	11	58,023.058	59,348.097
2052	12	61,363.573	63,934.565
2053	1	62,164.118	65,874.491
2053	2	56,871.254	60,855.859
2053	3	55,835.736	59,134.027
2053	4	56,374.161	58,447.168
2053	5	57,485.710	59,002.453
2053	6	62,207.935	66,361.253
2053	7	64,987.040	74,641.591
2053	8	65,930.859	76,535.803
2053	9	67,629.892	75,445.986
2053	10	62,030.853	64,574.614
2053	11	58,056.436	59,364.909
2053	12	61,400.685	63,932.071
2054	1	62,200.520	65,853.040
2054	2	56,904.230	60,826.760
2054	3	55,868.602	59,116.033
2054	4	56,408.164	58,451.923
2054	5	57,519.565	59,027.852
2054	6	62,243.260	66,404.349
2054	7	65,022.572	74,700.377
2054	8	65,965.350	76,596.099
2054	9	67,666.172	75,501.347
2054	10	62,066.187	64,612.236
2054	11	58,092.022	59,384.197
2054	12	61,440.219	63,932.614

LONG-TERM INDUSTRIAL ENERGY

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

The MEANS Procedure

Variable	Label	Mean
year	year	2024.50
month	month	6.5000000
ei_imi	BILLED KWH	563.4567536

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
1	1995	1	445.063
2	1995	2	434.885
3	1995	3	485.973
4	1995	4	462.101
5	1995	5	477.43
6	1995	6	484.029
7	1995	7	446.893
8	1995	8	483.124
9	1995	9	451.58
10	1995	10	495.133
11	1995	11	473.149
12	1995	12	454.79
13	1996	1	506.5363
14	1996	2	510.7182
15	1996	3	509.1997
16	1996	4	523.2746
17	1996	5	549.2134
18	1996	6	523.7555
19	1996	7	532.4252
20	1996	8	562.1799
21	1996	9	533.4938
22	1996	10	557.9409
23	1996	11	489.2345
24	1996	12	516.5402
25	1997	1	537.9642
26	1997	2	514.5719
27	1997	3	513.6808
28	1997	4	555.2667
29	1997	5	531.4818
30	1997	6	553.8671
31	1997	7	557.1743
32	1997	8	555.3932
33	1997	9	559.4926
34	1997	10	570.845
35	1997	11	521.8339
36	1997	12	548.9433
37	1998	1	522.1611
38	1998	2	523.2191
39	1998	3	555.7506
40	1998	4	554.6195
41	1998	5	558.8179
42	1998	6	576.8707
43	1998	7	532.5246
44	1998	8	617.8052
45	1998	9	580.4243
46	1998	10	603.798
47	1998	11	558.0011
48	1998	12	579.6036

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
49	1999	1	519.1415
50	1999	2	571.4783
51	1999	3	600.4029
52	1999	4	609.3566
53	1999	5	588.3993
54	1999	6	604.8096
55	1999	7	595.7039
56	1999	8	627.5208
57	1999	9	619.0776
58	1999	10	598.5051
59	1999	11	601.8821
60	1999	12	586.8782
61	2000	1	593.8731
62	2000	2	601.5177
63	2000	3	610.609
64	2000	4	581.0451
65	2000	5	624.1091
66	2000	6	620.2041
67	2000	7	595.2475
68	2000	8	602.1409
69	2000	9	609.4992
70	2000	10	578.3946
71	2000	11	534.1597
72	2000	12	587.5377
73	2001	1	562.522
74	2001	2	549.0661
75	2001	3	586.6955
76	2001	4	570.2732
77	2001	5	597.5152
78	2001	6	594.6218
79	2001	7	730.9623
80	2001	8	631.9577
81	2001	9	589.4201
82	2001	10	572.8912
83	2001	11	537.5029
84	2001	12	544.2759
85	2002	1	565.8917
86	2002	2	554.4982
87	2002	3	578.8751
88	2002	4	582.4315
89	2002	5	602.319
90	2002	6	594.2844
91	2002	7	602.8749
92	2002	8	614.3839
93	2002	9	617.7006
94	2002	10	591.8831
95	2002	11	580.0996
96	2002	12	580.2616

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
97	2003	1	573.4895
98	2003	2	558.3607
99	2003	3	564.4867
100	2003	4	555.21
101	2003	5	576.1037
102	2003	6	575.6623
103	2003	7	556.9208
104	2003	8	582.2612
105	2003	9	597.5811
106	2003	10	590.5284
107	2003	11	563.8974
108	2003	12	558.1062
109	2004	1	591.1904
110	2004	2	571.6933
111	2004	3	584.2021
112	2004	4	582.1246
113	2004	5	595.1821
114	2004	6	600.7901
115	2004	7	581.1516
116	2004	8	597.2478
117	2004	9	616.325
118	2004	10	577.2869
119	2004	11	564.9906
120	2004	12	583.0957
121	2005	1	558.5265
122	2005	2	572.8868
123	2005	3	589.6879
124	2005	4	551.5711
125	2005	5	592.4665
126	2005	6	584.8243
127	2005	7	581.8307
128	2005	8	611.8744
129	2005	9	620.5461
130	2005	10	612.1391
131	2005	11	558.0226
132	2005	12	588.3965
133	2006	1	585.8103
134	2006	2	568.0625
135	2006	3	593.1102
136	2006	4	564.774
137	2006	5	601.6685
138	2006	6	589.9968
139	2006	7	591.6418
140	2006	8	614.3286
141	2006	9	604.5194
142	2006	10	569.5298
143	2006	11	561.0125
144	2006	12	571.7102

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
145	2007	1	554.0955
146	2007	2	552.4443
147	2007	3	580.4356
148	2007	4	555.1105
149	2007	5	579.5736
150	2007	6	592.4012
151	2007	7	592.7365
152	2007	8	607.259
153	2007	9	614.2926
154	2007	10	584.8136
155	2007	11	542.5132
156	2007	12	571.0556
157	2008	1	572.9256
158	2008	2	559.9062
159	2008	3	581.6669
160	2008	4	564.7042
161	2008	5	583.4742
162	2008	6	591.2739
163	2008	7	572.7185
164	2008	8	592.4687
165	2008	9	559.4872
166	2008	10	479.4442
167	2008	11	449.3421
168	2008	12	480.4226
169	2009	1	480.3961
170	2009	2	450.4962
171	2009	3	450.8111
172	2009	4	452.2333
173	2009	5	463.4872
174	2009	6	499.5121
175	2009	7	522.7519
176	2009	8	546.6993
177	2009	9	552.8066
178	2009	10	532.8112
179	2009	11	504.974
180	2009	12	547.4043
181	2010	1	552.3489
182	2010	2	520.3179
183	2010	3	555.2909
184	2010	4	531.5204
185	2010	5	558.832
186	2010	6	541.3213
187	2010	7	547.2915
188	2010	8	577.0647
189	2010	9	545.7517
190	2010	10	528.1695
191	2010	11	538.4091
192	2010	12	584.1981

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
193	2011	1	556.5215
194	2011	2	509.029
195	2011	3	570.8447
196	2011	4	537.3576
197	2011	5	563.3275
198	2011	6	577.2622
199	2011	7	542.0551
200	2011	8	601.6735
201	2011	9	597.7811
202	2011	10	550.3301
203	2011	11	545.8797
204	2011	12	573.0644
205	2012	1	570.4171
206	2012	2	534.0153
207	2012	3	558.0769
208	2012	4	573.1815
209	2012	5	571.3803
210	2012	6	565.2665
211	2012	7	577.1958
212	2012	8	588.7895
213	2012	9	551.9438
214	2012	10	544.6008
215	2012	11	563.5895
216	2012	12	555.4219
217	2013	1	552.1268
218	2013	2	545.1737
219	2013	3	547.9073
220	2013	4	536.9473
221	2013	5	569.2039
222	2013	6	558.789
223	2013	7	577.4297
224	2013	8	562.7971
225	2013	9	589.0043
226	2013	10	559.0491
227	2013	11	561.0187
228	2013	12	562.3288
229	2014	1	535.0116
230	2014	2	533.1196
231	2014	3	573.4851
232	2014	4	567.1311
233	2014	5	585.8228
234	2014	6	581.0288
235	2014	7	591.038
236	2014	8	593.9361
237	2014	9	576.1844
238	2014	10	570.1743
239	2014	11	575.9166
240	2014	12	575.2029

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
241	2015	1	561.2531
242	2015	2	527.6418
243	2015	3	536.7722
244	2015	4	547.2244
245	2015	5	573.7563
246	2015	6	594.801
247	2015	7	572.7484
248	2015	8	601.2221
249	2015	9	578.7481
250	2015	10	537.597
251	2015	11	527.4492
252	2015	12	589.8728
253	2016	1	544.5754
254	2016	2	559.7568
255	2016	3	587.4488
256	2016	4	573.3268
257	2016	5	583.1317
258	2016	6	595.2635
259	2016	7	598.789
260	2016	8	607.8734
261	2016	9	585.9521
262	2016	10	534.0034
263	2016	11	570.5345
264	2016	12	583.7737
265	2017	1	583.0891
266	2017	2	556.3668
267	2017	3	583.1322
268	2017	4	560.3769
269	2017	5	554.5067
270	2017	6	572.8401
271	2017	7	588.1111
272	2017	8	602.6306
273	2017	9	583.7868
274	2017	10	564.1861
275	2017	11	574.8993
276	2017	12	594.9224
277	2018	1	589.1514
278	2018	2	552.236
279	2018	3	588.0534
280	2018	4	582.3399
281	2018	5	581.5823
282	2018	6	587.4489
283	2018	7	605.0346
284	2018	8	601.1235
285	2018	9	597.126
286	2018	10	569.6552
287	2018	11	561.1896
288	2018	12	578.4084

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
289	2019	1	570.6927
290	2019	2	.
291	2019	3	.
292	2019	4	.
293	2019	5	.
294	2019	6	.
295	2019	7	.
296	2019	8	.
297	2019	9	.
298	2019	10	.
299	2019	11	.
300	2019	12	.
301	2020	1	.
302	2020	2	.
303	2020	3	.
304	2020	4	.
305	2020	5	.
306	2020	6	.
307	2020	7	.
308	2020	8	.
309	2020	9	.
310	2020	10	.
311	2020	11	.
312	2020	12	.
313	2021	1	.
314	2021	2	.
315	2021	3	.
316	2021	4	.
317	2021	5	.
318	2021	6	.
319	2021	7	.
320	2021	8	.
321	2021	9	.
322	2021	10	.
323	2021	11	.
324	2021	12	.
325	2022	1	.
326	2022	2	.
327	2022	3	.
328	2022	4	.
329	2022	5	.
330	2022	6	.
331	2022	7	.
332	2022	8	.
333	2022	9	.
334	2022	10	.
335	2022	11	.
336	2022	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
337	2023	1	.
338	2023	2	.
339	2023	3	.
340	2023	4	.
341	2023	5	.
342	2023	6	.
343	2023	7	.
344	2023	8	.
345	2023	9	.
346	2023	10	.
347	2023	11	.
348	2023	12	.
349	2024	1	.
350	2024	2	.
351	2024	3	.
352	2024	4	.
353	2024	5	.
354	2024	6	.
355	2024	7	.
356	2024	8	.
357	2024	9	.
358	2024	10	.
359	2024	11	.
360	2024	12	.
361	2025	1	.
362	2025	2	.
363	2025	3	.
364	2025	4	.
365	2025	5	.
366	2025	6	.
367	2025	7	.
368	2025	8	.
369	2025	9	.
370	2025	10	.
371	2025	11	.
372	2025	12	.
373	2026	1	.
374	2026	2	.
375	2026	3	.
376	2026	4	.
377	2026	5	.
378	2026	6	.
379	2026	7	.
380	2026	8	.
381	2026	9	.
382	2026	10	.
383	2026	11	.
384	2026	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
385	2027	1	.
386	2027	2	.
387	2027	3	.
388	2027	4	.
389	2027	5	.
390	2027	6	.
391	2027	7	.
392	2027	8	.
393	2027	9	.
394	2027	10	.
395	2027	11	.
396	2027	12	.
397	2028	1	.
398	2028	2	.
399	2028	3	.
400	2028	4	.
401	2028	5	.
402	2028	6	.
403	2028	7	.
404	2028	8	.
405	2028	9	.
406	2028	10	.
407	2028	11	.
408	2028	12	.
409	2029	1	.
410	2029	2	.
411	2029	3	.
412	2029	4	.
413	2029	5	.
414	2029	6	.
415	2029	7	.
416	2029	8	.
417	2029	9	.
418	2029	10	.
419	2029	11	.
420	2029	12	.
421	2030	1	.
422	2030	2	.
423	2030	3	.
424	2030	4	.
425	2030	5	.
426	2030	6	.
427	2030	7	.
428	2030	8	.
429	2030	9	.
430	2030	10	.
431	2030	11	.
432	2030	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
433	2031	1	.
434	2031	2	.
435	2031	3	.
436	2031	4	.
437	2031	5	.
438	2031	6	.
439	2031	7	.
440	2031	8	.
441	2031	9	.
442	2031	10	.
443	2031	11	.
444	2031	12	.
445	2032	1	.
446	2032	2	.
447	2032	3	.
448	2032	4	.
449	2032	5	.
450	2032	6	.
451	2032	7	.
452	2032	8	.
453	2032	9	.
454	2032	10	.
455	2032	11	.
456	2032	12	.
457	2033	1	.
458	2033	2	.
459	2033	3	.
460	2033	4	.
461	2033	5	.
462	2033	6	.
463	2033	7	.
464	2033	8	.
465	2033	9	.
466	2033	10	.
467	2033	11	.
468	2033	12	.
469	2034	1	.
470	2034	2	.
471	2034	3	.
472	2034	4	.
473	2034	5	.
474	2034	6	.
475	2034	7	.
476	2034	8	.
477	2034	9	.
478	2034	10	.
479	2034	11	.
480	2034	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
481	2035	1	.
482	2035	2	.
483	2035	3	.
484	2035	4	.
485	2035	5	.
486	2035	6	.
487	2035	7	.
488	2035	8	.
489	2035	9	.
490	2035	10	.
491	2035	11	.
492	2035	12	.
493	2036	1	.
494	2036	2	.
495	2036	3	.
496	2036	4	.
497	2036	5	.
498	2036	6	.
499	2036	7	.
500	2036	8	.
501	2036	9	.
502	2036	10	.
503	2036	11	.
504	2036	12	.
505	2037	1	.
506	2037	2	.
507	2037	3	.
508	2037	4	.
509	2037	5	.
510	2037	6	.
511	2037	7	.
512	2037	8	.
513	2037	9	.
514	2037	10	.
515	2037	11	.
516	2037	12	.
517	2038	1	.
518	2038	2	.
519	2038	3	.
520	2038	4	.
521	2038	5	.
522	2038	6	.
523	2038	7	.
524	2038	8	.
525	2038	9	.
526	2038	10	.
527	2038	11	.
528	2038	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
529	2039	1	.
530	2039	2	.
531	2039	3	.
532	2039	4	.
533	2039	5	.
534	2039	6	.
535	2039	7	.
536	2039	8	.
537	2039	9	.
538	2039	10	.
539	2039	11	.
540	2039	12	.
541	2040	1	.
542	2040	2	.
543	2040	3	.
544	2040	4	.
545	2040	5	.
546	2040	6	.
547	2040	7	.
548	2040	8	.
549	2040	9	.
550	2040	10	.
551	2040	11	.
552	2040	12	.
553	2041	1	.
554	2041	2	.
555	2041	3	.
556	2041	4	.
557	2041	5	.
558	2041	6	.
559	2041	7	.
560	2041	8	.
561	2041	9	.
562	2041	10	.
563	2041	11	.
564	2041	12	.
565	2042	1	.
566	2042	2	.
567	2042	3	.
568	2042	4	.
569	2042	5	.
570	2042	6	.
571	2042	7	.
572	2042	8	.
573	2042	9	.
574	2042	10	.
575	2042	11	.
576	2042	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
577	2043	1	.
578	2043	2	.
579	2043	3	.
580	2043	4	.
581	2043	5	.
582	2043	6	.
583	2043	7	.
584	2043	8	.
585	2043	9	.
586	2043	10	.
587	2043	11	.
588	2043	12	.
589	2044	1	.
590	2044	2	.
591	2044	3	.
592	2044	4	.
593	2044	5	.
594	2044	6	.
595	2044	7	.
596	2044	8	.
597	2044	9	.
598	2044	10	.
599	2044	11	.
600	2044	12	.
601	2045	1	.
602	2045	2	.
603	2045	3	.
604	2045	4	.
605	2045	5	.
606	2045	6	.
607	2045	7	.
608	2045	8	.
609	2045	9	.
610	2045	10	.
611	2045	11	.
612	2045	12	.
613	2046	1	.
614	2046	2	.
615	2046	3	.
616	2046	4	.
617	2046	5	.
618	2046	6	.
619	2046	7	.
620	2046	8	.
621	2046	9	.
622	2046	10	.
623	2046	11	.
624	2046	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
625	2047	1	.
626	2047	2	.
627	2047	3	.
628	2047	4	.
629	2047	5	.
630	2047	6	.
631	2047	7	.
632	2047	8	.
633	2047	9	.
634	2047	10	.
635	2047	11	.
636	2047	12	.
637	2048	1	.
638	2048	2	.
639	2048	3	.
640	2048	4	.
641	2048	5	.
642	2048	6	.
643	2048	7	.
644	2048	8	.
645	2048	9	.
646	2048	10	.
647	2048	11	.
648	2048	12	.
649	2049	1	.
650	2049	2	.
651	2049	3	.
652	2049	4	.
653	2049	5	.
654	2049	6	.
655	2049	7	.
656	2049	8	.
657	2049	9	.
658	2049	10	.
659	2049	11	.
660	2049	12	.
661	2050	1	.
662	2050	2	.
663	2050	3	.
664	2050	4	.
665	2050	5	.
666	2050	6	.
667	2050	7	.
668	2050	8	.
669	2050	9	.
670	2050	10	.
671	2050	11	.
672	2050	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLE

Obs	year	month	ei_imi
673	2051	1	.
674	2051	2	.
675	2051	3	.
676	2051	4	.
677	2051	5	.
678	2051	6	.
679	2051	7	.
680	2051	8	.
681	2051	9	.
682	2051	10	.
683	2051	11	.
684	2051	12	.
685	2052	1	.
686	2052	2	.
687	2052	3	.
688	2052	4	.
689	2052	5	.
690	2052	6	.
691	2052	7	.
692	2052	8	.
693	2052	9	.
694	2052	10	.
695	2052	11	.
696	2052	12	.
697	2053	1	.
698	2053	2	.
699	2053	3	.
700	2053	4	.
701	2053	5	.
702	2053	6	.
703	2053	7	.
704	2053	8	.
705	2053	9	.
706	2053	10	.
707	2053	11	.
708	2053	12	.
709	2054	1	.
710	2054	2	.
711	2054	3	.
712	2054	4	.
713	2054	5	.
714	2054	6	.
715	2054	7	.
716	2054	8	.
717	2054	9	.
718	2054	10	.
719	2054	11	.
720	2054	12	.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
year	year	2024.50
month	month	6.5000000
grpmf_imi	SERVICE AREA GROSS REGIONAL PRODUCT-MANUF.	31385.01
frbmvp	FRB IND. PROD. INDEX, MOTOR VEHICLES	139.9743957
D030N	BINARY VARIABLE-2003 ON	0.8666667
d1	JANUARY	0.0833333
d2	FEBRUARY	0.0833333
d3	MARCH	0.0833333
d4	APRIL	0.0833333
d5	MAY	0.0833333
d6	JUNE	0.0833333
d7	JULY	0.0833333
d8	AUGUST	0.0833333
d9	SEPTEMBER	0.0833333
d10	OCTOBER	0.0833333
d11	NOVEMBER	0.0833333
d95	BINARY VARIABLE-1995	0.0166667
dsep12on	BINARY VARIABLE-SEPTEMBER 2012 ON	0.7055556
mar01oct01	BINARY VARIABLE-MARCH 2001 THROUGH OCTOBER 2001	0.0111111

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
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EXOGENOUS VARIABLES

			g	f	D														m		
	y	o	r	r	0														a		
	e	n	p	b	3														r		
	a	t	m	m	0	d	d	d	d	d	d	d	d	d	1	1	9	2	s	o	P
	r	h	i	v	N	1	2	3	4	5	6	7	8	9	0	1	5	1	e	1	R
				p															1	c	I
																			0	t	C
																			0	0	E
79	2001	7	17752.56	96.185	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.	
80	2001	8	17756.89	94.976	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.	
81	2001	9	17814.99	94.313	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.	
82	2001	10	17919.32	94.298	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.	
83	2001	11	18061.89	94.829	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.	
84	2001	12	18235.56	95.810	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
85	2002	1	18435.97	97.155	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
86	2002	2	18641.88	98.658	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
87	2002	3	18855.89	100.288	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
88	2002	4	19078.26	102.028	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.	
89	2002	5	19294.33	103.749	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.	
90	2002	6	19496.71	105.332	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.	
91	2002	7	19678.05	106.516	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.	
92	2002	8	19838.36	107.001	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
93	2002	9	19974.93	106.683	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.	
94	2002	10	20093.31	106.113	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.	
95	2002	11	20196.61	106.028	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.	
96	2002	12	20287.62	106.819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
97	2003	1	20370.67	107.806	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
98	2003	2	20443.62	107.948	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
99	2003	3	20513.28	106.761	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
100	2003	4	20584.74	105.038	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.	
101	2003	5	20658.51	104.161	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.	
102	2003	6	20737.50	104.988	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.	
103	2003	7	20824.51	106.862	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.	
104	2003	8	20921.36	108.621	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
105	2003	9	21022.49	109.402	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.	
106	2003	10	21126.72	109.555	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.	
107	2003	11	21231.34	109.759	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.	
108	2003	12	21333.63	110.434	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
109	2004	1	21432.47	111.210	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
110	2004	2	21520.59	111.427	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
111	2004	3	21598.54	110.709	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
112	2004	4	21664.92	109.313	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.	
113	2004	5	21715.48	107.749	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.	
114	2004	6	21747.68	106.456	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.	
115	2004	7	21758.86	105.648	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.	
116	2004	8	21749.00	105.458	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
117	2004	9	21721.34	105.938	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.	

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			g r p m f i	f r b m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 0	d 1	d 5	m a r c h 2 0 1 5	P R I C E
196	2011	4	22410.71	87.170	1	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.
197	2011	5	22247.76	85.650	1	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
198	2011	6	22095.77	86.334	1	0	0	0	0	0	1	0	0	0	0	0	0	0	CONFID.
199	2011	7	21968.15	88.568	1	0	0	0	0	0	0	1	0	0	0	0	0	0	CONDID.
200	2011	8	21869.47	91.010	1	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.
201	2011	9	21801.22	92.615	1	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
202	2011	10	21759.32	93.675	1	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
203	2011	11	21741.04	94.831	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
204	2011	12	21744.16	96.499	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
205	2012	1	21766.57	98.415	1	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
206	2012	2	21804.27	99.974	1	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
207	2012	3	21855.59	100.843	1	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.
208	2012	4	21919.06	100.992	1	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.
209	2012	5	21991.62	100.469	1	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
210	2012	6	22070.73	99.471	1	0	0	0	0	0	1	0	0	0	0	0	0	0	CONFID.
211	2012	7	22154.08	98.508	1	0	0	0	0	0	0	1	0	0	0	0	0	0	CONDID.
212	2012	8	22241.59	98.201	1	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.
213	2012	9	22329.94	98.924	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.
214	2012	10	22420.11	100.262	1	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
215	2012	11	22511.69	101.567	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
216	2012	12	22604.27	102.402	1	0	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
217	2013	1	22698.97	103.007	1	1	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
218	2013	2	22789.26	103.768	1	0	1	0	0	0	0	0	0	0	0	0	0	1	CONFID.
219	2013	3	22879.34	104.932	1	0	0	1	0	0	0	0	0	0	0	0	0	1	CONFID.
220	2013	4	22971.86	106.151	1	0	0	0	1	0	0	0	0	0	0	0	0	1	CONFID.
221	2013	5	23063.34	106.767	1	0	0	0	0	1	0	0	0	0	0	0	0	1	CONFID.
222	2013	6	23153.38	106.493	1	0	0	0	0	0	1	0	0	0	0	0	0	1	CONFID.
223	2013	7	23241.59	106.026	1	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.
224	2013	8	23329.19	106.411	1	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.
225	2013	9	23413.43	108.199	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.
226	2013	10	23495.83	110.561	1	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
227	2013	11	23576.51	112.229	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
228	2013	12	23655.54	112.412	1	0	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
229	2014	1	23734.29	111.826	1	1	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
230	2014	2	23807.87	111.677	1	0	1	0	0	0	0	0	0	0	0	0	0	1	CONFID.
231	2014	3	23880.15	112.712	1	0	0	1	0	0	0	0	0	0	0	0	0	1	CONFID.
232	2014	4	23953.68	114.641	1	0	0	0	1	0	0	0	0	0	0	0	0	1	CONFID.
233	2014	5	24026.05	116.709	1	0	0	0	0	1	0	0	0	0	0	0	0	1	CONFID.
234	2014	6	24097.36	118.324	1	0	0	0	0	0	1	0	0	0	0	0	0	1	CONFID.

INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			g r p m f	f r b m v p	D O 3 0 N	d	d	d	d	d	d	d	d	d	d	d	d	d	d	m a r c h 1	P R I C E	
235	2014	7	24167.69	119.388	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONDID.
236	2014	8	24238.02	119.986	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
237	2014	9	24305.70	120.180	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	CONFID.
238	2014	10	24371.43	120.076	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	CONFID.
239	2014	11	24434.83	119.777	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	CONFID.
240	2014	12	24495.46	119.409	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
241	2015	1	24553.83	119.182	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
242	2015	2	24605.95	119.323	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
243	2015	3	24654.28	119.998	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
244	2015	4	24699.96	121.276	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
245	2015	5	24740.80	123.137	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
246	2015	6	24776.43	125.371	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	CONFID.
247	2015	7	24806.47	127.192	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	CONDID.
248	2015	8	24831.80	127.630	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	CONFID.
249	2015	9	24853.02	126.209	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	CONFID.
250	2015	10	24872.06	123.993	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	CONFID.
251	2015	11	24890.43	122.505	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	CONFID.
252	2015	12	24909.60	122.712	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
253	2016	1	24931.47	123.837	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
254	2016	2	24956.34	124.491	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
255	2016	3	24986.38	123.888	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
256	2016	4	25023.59	122.740	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
257	2016	5	25069.09	122.303	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
258	2016	6	25124.27	123.353	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	CONFID.
259	2016	7	25190.65	125.236	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	CONDID.
260	2016	8	25269.50	126.821	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	CONFID.
261	2016	9	25356.89	127.244	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	CONFID.
262	2016	10	25452.58	126.720	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	CONFID.
263	2016	11	25554.94	125.769	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	CONFID.
264	2016	12	25662.53	124.851	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
265	2017	1	25775.63	124.261	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
266	2017	2	25885.33	124.247	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
267	2017	3	25995.67	124.816	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
268	2017	4	26108.95	125.426	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
269	2017	5	26219.91	125.262	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
270	2017	6	26327.05	123.898	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	CONFID.
271	2017	7	26428.90	122.017	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	CONDID.
272	2017	8	26526.67	120.672	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	CONFID.
273	2017	9	26618.01	120.683	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

Obs	Year	Month	g r p m f _ i m i	f r b m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	m a r c h a p r i l m a y j u n e j u l a u g u s t o c t o b e r n o v e m b e r	P R I C E
274	2017	10	26705.45	121.941	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
275	2017	11	26789.94	124.070	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
276	2017	12	26872.36	126.583	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
277	2018	1	26954.99	128.645	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
278	2018	2	27033.43	129.236	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
279	2018	3	27112.53	128.021	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
280	2018	4	27195.89	125.999	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
281	2018	5	27281.77	124.806	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
282	2018	6	27371.06	125.471	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
283	2018	7	27464.64	127.223	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONDID.	
284	2018	8	27563.66	128.685	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.	
285	2018	9	27663.11	128.875	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
286	2018	10	27762.63	128.260	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
287	2018	11	27860.30	127.720	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.	
288	2018	12	27954.16	127.867	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
289	2019	1	28043.69	128.482	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
290	2019	2	28121.63	129.036	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
291	2019	3	28190.46	129.239	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
292	2019	4	28250.48	129.228	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
293	2019	5	28297.06	129.292	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
294	2019	6	28328.43	129.621	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
295	2019	7	28342.65	130.060	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONDID.	
296	2019	8	28340.08	130.341	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.	
297	2019	9	28323.54	130.275	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
298	2019	10	28295.97	129.961	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
299	2019	11	28260.44	129.579	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.	
300	2019	12	28219.83	129.252	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
301	2020	1	28176.43	128.911	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
302	2020	2	28135.26	128.454	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
303	2020	3	28097.82	127.785	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
304	2020	4	28066.38	126.911	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
305	2020	5	28044.66	125.896	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
306	2020	6	28035.49	124.837	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
307	2020	7	28041.80	123.953	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONDID.	
308	2020	8	28064.64	123.495	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.	
309	2020	9	28101.74	123.636	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
310	2020	10	28151.73	124.239	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
311	2020	11	28212.72	125.082	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.	
312	2020	12	28283.12	125.979	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	

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O b s	y e a r	m o n t h	g r o u p m i	f o r m u l a	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 1 0	d 1 1	d 1 5	m a r c h 2 0 2 1	P R I C E	
																				1
313	2021	1	28362.43	126.866	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
314	2021	2	28443.52	127.646	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
315	2021	3	28528.58	128.350	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
316	2021	4	28618.92	129.077	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
317	2021	5	28710.04	129.910	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
318	2021	6	28800.21	130.922	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
319	2021	7	28887.72	132.075	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
320	2021	8	28972.97	133.315	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
321	2021	9	29052.97	134.542	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
322	2021	10	29128.97	135.754	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
323	2021	11	29200.86	136.947	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
324	2021	12	29268.45	138.106	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
325	2022	1	29332.62	139.218	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
326	2022	2	29389.35	140.180	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
327	2022	3	29441.60	141.023	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
328	2022	4	29490.90	141.790	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
329	2022	5	29535.18	142.480	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
330	2022	6	29574.35	143.112	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
331	2022	7	29608.25	143.673	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
332	2022	8	29637.69	144.145	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
333	2022	9	29662.54	144.489	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
334	2022	10	29684.18	144.702	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
335	2022	11	29703.48	144.774	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
336	2022	12	29721.30	144.699	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
337	2023	1	29738.82	144.480	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
338	2023	2	29755.73	144.147	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
339	2023	3	29773.71	143.712	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
340	2023	4	29794.22	143.209	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
341	2023	5	29817.58	142.719	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
342	2023	6	29844.62	142.285	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
343	2023	7	29876.20	141.878	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
344	2023	8	29913.09	141.436	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
345	2023	9	29953.56	140.933	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
346	2023	10	29997.59	140.355	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
347	2023	11	30044.54	139.707	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
348	2023	12	30093.84	139.013	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
349	2024	1	30145.69	138.339	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
350	2024	2	30196.98	137.810	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
351	2024	3	30248.76	137.460	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.

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O b s	y e a r	m o n t h	g r p m f _ i m i	f r o m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 1 0	d 1 1	d 1 5	m a r c h a p r i l m a y j u n e j u l s e p o c t o b e r	P R I C E	
352	2024	4	30301.33	137.234	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
353	2024	5	30353.20	137.055	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
354	2024	6	30403.79	136.857	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
355	2024	7	30452.49	136.652	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
356	2024	8	30499.87	136.469	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
357	2024	9	30544.53	136.339	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
358	2024	10	30587.43	136.255	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
359	2024	11	30628.77	136.203	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
360	2024	12	30668.73	136.175	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
361	2025	1	30708.14	136.180	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
362	2025	2	30744.68	136.228	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
363	2025	3	30780.44	136.334	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
364	2025	4	30816.80	136.517	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
365	2025	5	30852.71	136.795	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
366	2025	6	30888.36	137.169	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
367	2025	7	30923.92	137.596	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
368	2025	8	30960.10	138.024	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
369	2025	9	30995.80	138.392	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
370	2025	10	31031.63	138.696	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
371	2025	11	31067.64	138.936	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
372	2025	12	31103.88	139.108	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
373	2026	1	31140.99	139.207	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
374	2026	2	31176.61	139.221	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
375	2026	3	31212.57	139.151	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
376	2026	4	31250.15	139.012	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
377	2026	5	31288.18	138.831	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
378	2026	6	31326.70	138.626	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
379	2026	7	31365.76	138.390	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
380	2026	8	31406.10	138.106	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
381	2026	9	31446.50	137.780	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
382	2026	10	31487.72	137.443	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
383	2026	11	31529.85	137.141	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
384	2026	12	31573.01	136.917	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
385	2027	1	31618.02	136.797	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
386	2027	2	31662.02	136.807	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
387	2027	3	31707.26	136.949	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
388	2027	4	31755.44	137.204	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
389	2027	5	31805.13	137.527	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
390	2027	6	31856.44	137.873	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.

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			g r p m f	f r b m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 15	m a r c h 2 0 2 1	P R I C E
391	2027	7	31909.48	138.199	1	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.
392	2027	8	31965.08	138.465	1	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.
393	2027	9	32021.25	138.636	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.
394	2027	10	32078.66	138.734	1	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
395	2027	11	32137.08	138.796	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
396	2027	12	32196.30	138.856	1	0	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
397	2028	1	32257.07	138.956	1	1	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
398	2028	2	32316.24	139.129	1	0	1	0	0	0	0	0	0	0	0	0	0	1	CONFID.
399	2028	3	32375.54	139.401	1	0	0	1	0	0	0	0	0	0	0	0	0	1	CONFID.
400	2028	4	32435.74	139.757	1	0	0	0	1	0	0	0	0	0	0	0	0	1	CONFID.
401	2028	5	32495.65	140.156	1	0	0	0	0	1	0	0	0	0	0	0	0	1	CONFID.
402	2028	6	32555.03	140.567	1	0	0	0	0	0	1	0	0	0	0	0	0	1	CONFID.
403	2028	7	32613.68	140.987	1	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.
404	2028	8	32672.45	141.425	1	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.
405	2028	9	32729.44	141.864	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.
406	2028	10	32785.63	142.291	1	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
407	2028	11	32841.05	142.682	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
408	2028	12	32895.71	143.017	1	0	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
409	2029	1	32950.52	143.293	1	1	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
410	2029	2	33002.01	143.494	1	0	1	0	0	0	0	0	0	0	0	0	0	1	CONFID.
411	2029	3	33052.85	143.640	1	0	0	1	0	0	0	0	0	0	0	0	0	1	CONFID.
412	2029	4	33104.77	143.767	1	0	0	0	1	0	0	0	0	0	0	0	0	1	CONFID.
413	2029	5	33156.05	143.910	1	0	0	0	0	1	0	0	0	0	0	0	0	1	CONFID.
414	2029	6	33206.72	144.096	1	0	0	0	0	0	1	0	0	0	0	0	0	1	CONFID.
415	2029	7	33256.80	144.311	1	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.
416	2029	8	33307.15	144.529	1	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.
417	2029	9	33356.25	144.722	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.
418	2029	10	33405.02	144.895	1	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
419	2029	11	33453.56	145.057	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
420	2029	12	33501.96	145.214	1	0	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
421	2030	1	33551.11	145.367	1	1	0	0	0	0	0	0	0	0	0	0	0	1	CONFID.
422	2030	2	33597.95	145.501	1	0	1	0	0	0	0	0	0	0	0	0	0	1	CONFID.
423	2030	3	33644.94	145.622	1	0	0	1	0	0	0	0	0	0	0	0	0	1	CONFID.
424	2030	4	33693.78	145.736	1	0	0	0	1	0	0	0	0	0	0	0	0	1	CONFID.
425	2030	5	33742.97	145.847	1	0	0	0	0	1	0	0	0	0	0	0	0	1	CONFID.
426	2030	6	33792.62	145.965	1	0	0	0	0	0	1	0	0	0	0	0	0	1	CONFID.
427	2030	7	33842.82	146.114	1	0	0	0	0	0	0	1	0	0	0	0	0	1	CONDID.
428	2030	8	33894.43	146.328	1	0	0	0	0	0	0	0	1	0	0	0	0	1	CONFID.
429	2030	9	33945.72	146.613	1	0	0	0	0	0	0	0	0	1	0	0	0	1	CONFID.

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O b s	y e a r	m o n t h	g r o u p m f i	f r o m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 1 0	d 1 1	d 1 5	m a r c h 2 0 1 n	P R I C E	
430	2030	10	33997.47	146.947	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
431	2030	11	34049.60	147.288	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
432	2030	12	34102.06	147.600	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
433	2031	1	34155.65	147.864	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
434	2031	2	34206.83	148.047	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
435	2031	3	34258.15	148.158	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
436	2031	4	34311.27	148.239	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
437	2031	5	34364.40	148.343	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
438	2031	6	34417.48	148.513	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
439	2031	7	34470.45	148.749	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
440	2031	8	34524.17	149.044	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
441	2031	9	34576.96	149.374	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
442	2031	10	34629.76	149.730	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
443	2031	11	34682.62	150.098	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
444	2031	12	34735.61	150.460	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
445	2032	1	34789.67	150.787	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
446	2032	2	34842.22	151.030	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
447	2032	3	34895.08	151.179	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
448	2032	4	34949.19	151.271	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
449	2032	5	35003.75	151.357	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
450	2032	6	35058.80	151.482	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
451	2032	7	35114.41	151.677	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
452	2032	8	35171.51	151.967	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
453	2032	9	35228.22	152.348	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
454	2032	10	35285.43	152.782	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
455	2032	11	35343.07	153.209	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
456	2032	12	35401.12	153.583	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
457	2033	1	35460.49	153.901	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
458	2033	2	35517.28	154.152	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
459	2033	3	35574.33	154.362	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
460	2033	4	35633.54	154.570	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
461	2033	5	35692.94	154.807	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
462	2033	6	35752.49	155.104	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
463	2033	7	35812.14	155.456	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
464	2033	8	35872.86	155.854	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
465	2033	9	35932.71	156.270	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
466	2033	10	35992.69	156.693	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
467	2033	11	36052.82	157.104	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
468	2033	12	36113.11	157.486	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			g	f	D													m	P	
		y	r	r	0													a	R	
		e	p	m	3													r	I	
		n	m	f	0	d	d	d	d	d	d	d	d	d	d	d	d	s	C	
		t	i	—	N	1	2	3	4	5	6	7	8	9	0	1	5	e	E	
		h	—															1		
																		0		
																		1		
																		0		
469	2034	1	36174.59	157.824	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
470	2034	2	36233.29	158.079	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
471	2034	3	36292.21	158.264	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
472	2034	4	36353.37	158.429	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
473	2034	5	36414.79	158.626	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
474	2034	6	36476.50	158.903	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
475	2034	7	36538.52	159.258	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
476	2034	8	36601.82	159.681	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
477	2034	9	36664.29	160.133	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
478	2034	10	36726.85	160.572	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
479	2034	11	36789.41	160.943	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
480	2034	12	36851.88	161.207	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
481	2035	1	36915.18	161.385	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
482	2035	2	36975.15	161.501	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
483	2035	3	37034.78	161.594	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
484	2035	4	37095.98	161.693	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
485	2035	5	37156.63	161.818	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
486	2035	6	37216.65	161.989	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
487	2035	7	37275.93	162.203	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
488	2035	8	37335.42	162.457	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
489	2035	9	37393.26	162.730	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
490	2035	10	37450.45	162.998	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
491	2035	11	37507.06	163.228	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
492	2035	12	37563.15	163.398	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
493	2036	1	37619.68	163.519	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
494	2036	2	37674.00	163.605	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
495	2036	3	37727.97	163.677	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
496	2036	4	37782.55	163.750	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
497	2036	5	37836.90	163.833	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
498	2036	6	37891.08	163.936	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
499	2036	7	37945.13	164.067	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
500	2036	8	37999.99	164.232	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
501	2036	9	38053.90	164.426	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
502	2036	10	38107.78	164.644	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
503	2036	11	38161.64	164.875	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
504	2036	12	38215.51	165.103	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
505	2037	1	38270.28	165.303	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
506	2037	2	38322.45	165.436	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
507	2037	3	38374.68	165.496	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.

INDIANA SERVICE AREA
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

O	y	m	g	f	D	d	d	d	d	d	d	d	d	d	d	d	d	d	m	P	
																					s
508	2037	4	38428.76	165.523	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
509	2037	5	38482.96	165.569	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
510	2037	6	38537.27	165.676	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
511	2037	7	38591.73	165.840	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
512	2037	8	38647.23	166.049	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
513	2037	9	38701.98	166.277	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
514	2037	10	38756.85	166.509	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
515	2037	11	38811.82	166.730	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.
516	2037	12	38866.89	166.925	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
517	2038	1	38922.93	167.102	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
518	2038	2	38976.32	167.256	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
519	2038	3	39029.75	167.405	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
520	2038	4	39085.01	167.569	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
521	2038	5	39140.30	167.759	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
522	2038	6	39195.59	167.987	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
523	2038	7	39250.86	168.244	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
524	2038	8	39307.03	168.519	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
525	2038	9	39362.30	168.790	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
526	2038	10	39417.62	169.045	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
527	2038	11	39472.99	169.269	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.
528	2038	12	39528.45	169.454	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
529	2039	1	39584.93	169.618	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
530	2039	2	39638.82	169.776	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
531	2039	3	39692.85	169.952	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
532	2039	4	39748.90	170.158	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
533	2039	5	39805.15	170.390	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
534	2039	6	39861.63	170.648	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
535	2039	7	39918.38	170.928	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
536	2039	8	39976.28	171.232	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
537	2039	9	40033.39	171.543	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
538	2039	10	40090.56	171.846	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
539	2039	11	40147.70	172.120	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.
540	2039	12	40204.73	172.349	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
541	2040	1	40262.48	172.535	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
542	2040	2	40318.09	172.676	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
543	2040	3	40373.33	172.789	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
544	2040	4	40429.04	172.904	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
545	2040	5	40484.20	173.051	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
546	2040	6	40538.73	173.252	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			g	f	D														m		
		m	r	r															a		
	y	o	p	b	0														r		
	e	n	m	m	3														s		
	a	t	i	v	0	d	d	d	d	d	d	d	d	d	1	1	9	o	e	1	P
	r	h	i	p	N	1	2	3	4	5	6	7	8	9	0	1	5	n	1	0	R
	s																				I
																					C
																					E
547	2040	7	40592.55	173.488	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
548	2040	8	40646.52	173.730	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
549	2040	9	40698.99	173.947	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
550	2040	10	40750.93	174.143	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
551	2040	11	40802.42	174.326	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
552	2040	12	40853.57	174.500	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
553	2041	1	40905.29	174.663	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
554	2041	2	40954.35	174.796	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
555	2041	3	41003.35	174.902	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
556	2041	4	41054.02	174.997	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
557	2041	5	41104.80	175.097	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
558	2041	6	41155.79	175.212	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
559	2041	7	41207.06	175.330	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
560	2041	8	41259.49	175.431	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
561	2041	9	41311.33	175.506	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
562	2041	10	41363.37	175.592	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
563	2041	11	41415.54	175.739	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
564	2041	12	41467.79	175.975	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
565	2042	1	41520.91	176.264	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
566	2042	2	41571.41	176.524	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
567	2042	3	41621.81	176.723	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
568	2042	4	41673.77	176.871	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
569	2042	5	41725.50	176.977	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
570	2042	6	41776.94	177.065	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
571	2042	7	41828.04	177.181	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
572	2042	8	41879.62	177.375	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
573	2042	9	41930.04	177.667	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
574	2042	10	41980.16	178.005	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
575	2042	11	42030.04	178.312	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
576	2042	12	42079.69	178.534	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
577	2043	1	42129.97	178.703	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
578	2043	2	42177.68	178.859	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
579	2043	3	42225.27	179.049	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
580	2043	4	42274.40	179.283	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
581	2043	5	42323.49	179.547	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
582	2043	6	42372.57	179.826	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
583	2043	7	42421.67	180.087	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
584	2043	8	42471.61	180.296	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
585	2043	9	42520.79	180.427	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			g	f	D														m		
	y	o	r	r	0														a		
	e	n	p	f	3														r		
	a	t	m	m	0	d	d	d	d	d	d	d	d	d	1	1	9	2	s	o	P
	r	h	i	i	N	1	2	3	4	5	6	7	8	9	0	1	5	n	e	1	R
	s																				I
																					C
																					E
586	2043	10	42569.99	180.518	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
587	2043	11	42619.21	180.622	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
588	2043	12	42668.45	180.774	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
589	2044	1	42718.49	180.960	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
590	2044	2	42766.93	181.137	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
591	2044	3	42815.36	181.288	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
592	2044	4	42864.58	181.411	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
593	2044	5	42913.78	181.512	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
594	2044	6	42962.96	181.600	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
595	2044	7	43012.10	181.705	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
596	2044	8	43062.01	181.860	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
597	2044	9	43111.10	182.078	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
598	2044	10	43160.18	182.324	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
599	2044	11	43209.26	182.548	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
600	2044	12	43258.35	182.719	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
601	2045	1	43308.28	182.860	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
602	2045	2	43355.82	183.002	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
603	2045	3	43403.40	183.181	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
604	2045	4	43452.66	183.405	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
605	2045	5	43501.98	183.660	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
606	2045	6	43551.39	183.938	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
607	2045	7	43600.89	184.230	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
608	2045	8	43651.28	184.533	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
609	2045	9	43700.89	184.831	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
610	2045	10	43750.52	185.129	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
611	2045	11	43800.12	185.430	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
612	2045	12	43849.64	185.731	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
613	2046	1	43899.86	186.019	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
614	2046	2	43947.52	186.251	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
615	2046	3	43995.01	186.434	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
616	2046	4	44043.90	186.603	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.	
617	2046	5	44092.53	186.797	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.	
618	2046	6	44140.86	187.047	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.	
619	2046	7	44188.88	187.335	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.	
620	2046	8	44237.32	187.632	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.	
621	2046	9	44284.67	187.903	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.	
622	2046	10	44331.70	188.157	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.	
623	2046	11	44378.44	188.407	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.	
624	2046	12	44424.90	188.662	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	

INDIANA SERVICE AREA
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

		g r p m f		r b D		d d d d d d d d d d d d d d d d d													m a r s e p o		P R I C E			
		i m i		v p		1 2 3 4 5 6 7 8 9 0 1 5 n 1													1 0 0					
0 b s	y e a r	m o n t h																						
625	2047	1	44471.86	188.926	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.	
626	2047	2	44516.32	189.175	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
627	2047	3	44560.56	189.418	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
628	2047	4	44606.10	189.663	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
629	2047	5	44651.45	189.902	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
630	2047	6	44696.62	190.136	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
631	2047	7	44741.62	190.367	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONDID.
632	2047	8	44787.22	190.600	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
633	2047	9	44831.96	190.831	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
634	2047	10	44876.59	191.063	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
635	2047	11	44921.12	191.297	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
636	2047	12	44965.57	191.531	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
637	2048	1	45010.70	191.770	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
638	2048	2	45054.33	192.003	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
639	2048	3	45097.93	192.237	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
640	2048	4	45142.25	192.475	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
641	2048	5	45186.57	192.714	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
642	2048	6	45230.91	192.953	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
643	2048	7	45275.30	193.192	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONDID.
644	2048	8	45320.47	193.434	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
645	2048	9	45364.99	193.673	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
646	2048	10	45409.59	193.912	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
647	2048	11	45454.31	194.151	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
648	2048	12	45499.14	194.390	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
649	2049	1	45557.58	194.657	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
650	2049	2	45600.37	194.873	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
651	2049	3	45643.32	195.097	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
652	2049	4	45686.39	195.329	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
653	2049	5	45729.67	195.568	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
654	2049	6	45773.18	195.812	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
655	2049	7	45816.94	196.059	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONDID.
656	2049	8	45861.67	196.311	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
657	2049	9	45905.97	196.557	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
658	2049	10	45950.55	196.802	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
659	2049	11	45995.46	197.047	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONFID.
660	2049	12	46040.69	197.291	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
661	2050	1	46112.63	197.588	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
662	2050	2	46154.57	197.786	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
663	2050	3	46196.85	198.000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

Obs	Year	Month	g r p m f _ i m i	f r b m v p	D 0 3 0 N	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 15	m a r c h a p r i l m a y j u n e j u l s e p o c t o b e r	P R I C E	
664	2050	4	46238.65	198.225	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
665	2050	5	46280.88	198.464	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
666	2050	6	46323.53	198.713	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
667	2050	7	46366.65	198.969	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
668	2050	8	46410.95	199.230	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
669	2050	9	46455.02	199.484	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
670	2050	10	46499.60	199.736	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
671	2050	11	46544.71	199.987	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
672	2050	12	46590.35	200.236	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
673	2051	1	46675.97	200.563	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
674	2051	2	46717.05	200.743	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
675	2051	3	46758.67	200.946	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
676	2051	4	46799.17	201.164	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
677	2051	5	46840.31	201.403	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
678	2051	6	46882.10	201.658	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
679	2051	7	46924.57	201.922	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
680	2051	8	46968.43	202.193	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
681	2051	9	47012.28	202.455	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
682	2051	10	47056.85	202.714	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
683	2051	11	47102.18	202.970	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
684	2051	12	47148.25	203.225	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
685	2052	1	47247.74	203.583	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
686	2052	2	47287.95	203.744	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
687	2052	3	47328.89	203.936	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
688	2052	4	47368.07	204.147	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
689	2052	5	47408.11	204.385	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
690	2052	6	47449.01	204.646	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
691	2052	7	47490.83	204.919	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
692	2052	8	47534.24	205.199	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
693	2052	9	47577.87	205.470	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
694	2052	10	47622.44	205.736	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
695	2052	11	47668.00	205.998	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
696	2052	12	47714.52	206.259	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
697	2053	1	47828.07	206.648	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
698	2053	2	47867.39	206.790	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
699	2053	3	47907.65	206.971	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
700	2053	4	47945.48	207.173	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
701	2053	5	47984.40	207.412	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
702	2053	6	48024.40	207.678	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

Obs	Year	Month	g r p m f _ i	f r b m v p	D	d														m a r s e p o c t o b e r	P R I C E
						0	1	2	3	4	5	6	7	8	9	0	1	5	9		
703	2053	7	48065.55	207.960	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
704	2053	8	48108.51	208.250	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
705	2053	9	48151.93	208.530	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
706	2053	10	48196.51	208.803	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
707	2053	11	48242.31	209.071	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
708	2053	12	48289.29	209.337	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
709	2054	1	48417.10	209.759	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
710	2054	2	48455.52	209.881	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
711	2054	3	48495.09	210.050	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.
712	2054	4	48531.54	210.245	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	CONFID.
713	2054	5	48569.32	210.483	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
714	2054	6	48608.40	210.755	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
715	2054	7	48648.88	211.046	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONDID.
716	2054	8	48691.38	211.347	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
717	2054	9	48734.58	211.635	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
718	2054	10	48779.18	211.915	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	CONFID.
719	2054	11	48825.23	212.190	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	CONFID.
720	2054	12	48872.69	212.462	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	CONFID.

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model LEI
Dependent Variable LEI

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	18	1.168027	0.064890	58.87	<.0001
Error	270	0.297587	0.001102		
Corrected Total	288	1.465614			
Root MSE		0.03320	R-Square	0.79695	
Dependent Mean		6.33162	Adj R-Sq	0.78342	
Coeff Var		0.52434			

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	4.763699	0.326078	14.61	<.0001	Intercept
lpi36	1	-0.11323	0.047616	-2.38	0.0181	REAL MANUF. ELEC PRICE, 36-MONTH AVE., LOG
lgrpmf	1	0.089611	0.040241	2.23	0.0268	SERVICE AREA GROSS REGIONAL PRODUCT-MANUF., LOG
Lfrbmvp	1	0.252722	0.025923	9.75	<.0001	FRB IND. PROD. INDX, MOTOR VEHICLES, LOG
d1	1	-0.01597	0.009504	-1.68	0.0940	JANUARY
d2	1	-0.03732	0.009594	-3.89	0.0001	FEBRUARY
d3	1	0.002490	0.009609	0.26	0.7957	MARCH
d4	1	-0.01352	0.009609	-1.41	0.1605	APRIL
d5	1	0.014536	0.009609	1.51	0.1315	MAY
d6	1	0.020816	0.009607	2.17	0.0311	JUNE
d7	1	0.020079	0.009606	2.09	0.0375	JULY
d8	1	0.048589	0.009608	5.06	<.0001	AUGUST
d9	1	0.030576	0.009599	3.19	0.0016	SEPTEMBER
d10	1	-0.00321	0.009600	-0.33	0.7383	OCTOBER
d11	1	-0.03320	0.009584	-3.46	0.0006	NOVEMBER
mar01oct01	1	0.056219	0.012697	4.43	<.0001	BINARY VARIABLE-MARCH 2001 THROUGH OCTOBER 2001

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
D030N	1	-0.03127	0.010167	-3.08	0.0023	BINARY VARIABLE - 2003 ON
d95	1	-0.13998	0.011173	-12.53	<.0001	BINARY VARIABLE - 1995
dsep12on	1	-0.04560	0.008681	-5.25	<.0001	BINARY VARIABLE - SEPTEMBER 2012 ON

Durbin-Watson	1.51946
Number of Observations	289
First-Order Autocorrelation	0.238597

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

time		Residual Values Sum
1995.000000	*****	-0.031554
1995.0833333	*****	-0.034151
1995.1666667	*****	0.038222
1995.2500000	*	0.006710
1995.3333333	***	0.014181
1995.4166667	*****	0.023740
1995.5000000	*****	-0.054695
1995.5833333	*	-0.006321
1995.6666667	*****	-0.058231
1995.7500000	*****	0.066114
1995.8333333	*****	0.051913
1995.9166667	***	-0.015929
1996.0000000	*****	-0.025420
1996.0833333	*	0.004986
1996.1666667	*****	-0.043073
1996.2500000	**	-0.009767
1996.3333333		0.001617
1996.4166667	*****	-0.057063
1996.5000000	*****	-0.040366
1996.5833333	**	-0.011169
1996.6666667	*****	-0.041470
1996.7500000	*****	0.041260
1996.8333333	*****	-0.060789
1996.9166667	*****	-0.045635
1997.0000000	*	0.003636
1997.0833333	*****	-0.024962
1997.1666667	*****	-0.065586
1997.2500000	*****	0.030993
1997.3333333	*****	-0.038554
1997.4166667	*	-0.004893
1997.5000000	*	-0.003944
1997.5833333	*****	-0.042771
1997.6666667	*****	-0.024418
1997.7500000	*****	0.023690
1997.8333333	*****	-0.039898
1997.9166667	*****	-0.023303
1998.0000000	*****	-0.056756
1998.0833333	*****	-0.032862
1998.1666667	**	-0.011261
1998.2500000	*	0.003249
1998.3333333	***	-0.013726
1998.4166667	***	0.016728
1998.5000000	*****	-0.058915
1998.5833333	*****	0.058295
1998.6666667	*	0.003131
1998.7500000	*****	0.062216
1998.8333333	*	0.003285

INDIANA POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

1998.9166667	|	|	*	0.005165
1999.0000000	|	*****	|	-0.086269
1999.0833333	|	|	*****	0.033584
1999.1666667	|	|	*****	0.042706
1999.2500000	|	|	*****	0.071052
1999.3333333	|	|	*	0.005533
1999.4166667	|	|	*****	0.025004
1999.5000000	|	|	**	0.009815
1999.5833333	|	|	*****	0.031656
1999.6666667	|	|	*****	0.033533
1999.7500000	|	|	*****	0.030375
1999.8333333	|	|	*****	0.063356
1999.9166667	|	|	*	0.003662
2000.0000000	|	|	*****	0.031419
2000.0833333	|	|	*****	0.064297
2000.1666667	|	|	*****	0.038092
2000.2500000	|	|	*	0.002977
2000.3333333	|	|	*****	0.047291
2000.4166667	|	|	*****	0.037734
2000.5000000	|	|	*	0.003073
2000.5833333	|	**	|	-0.007862
2000.6666667	|	|	*****	0.026317
2000.7500000	|	|	**	0.012380
2000.8333333	|	*****	|	-0.031178
2000.9166667	|	|	*****	0.038809
2001.0000000	|	|	****	0.019399
2001.0833333	|	|	****	0.019669
2001.1666667	|	***	|	-0.013669
2001.2500000	|	*****	|	-0.032601
2001.3333333	|	****	|	-0.019345
2001.4166667	|	*****	|	-0.031549
2001.5000000	|	|	*****	0.177160
2001.5833333	|	|	*	0.005454
2001.6666667	|	*****	|	-0.044835
2001.7500000	|	*****	|	-0.040615
2001.8333333	|	****	|	-0.020876
2001.9166667	|	*****	|	-0.045445
2002.0000000	|	|	*	0.004491
2002.0833333	|	|	|	0.000207
2002.1666667	|	|	|	-0.001854
2002.2500000	|	|	***	0.014630
2002.3333333	|	|	***	0.014649
2002.4166667	|	**	|	-0.010111
2002.5000000	|	|	|	0.000681
2002.5833333	|	**	|	-0.011086
2002.6666667	|	|	**	0.012094
2002.7500000	|	|	*	0.003756
2002.8333333	|	|	***	0.013037
2002.9166667	|	****	|	-0.022246
2003.0000000	|	|	**	0.010096

INDIANA SERVICE AREA
 MANUFACTURING ENERGY SALES
 MODEL RESIDUALS

2003.0833333	|	|	*	|	0.004170
2003.1666667	|	*****	|		-0.022681
2003.2500000	|	****	|		-0.019606
2003.3333333	|	**	|		-0.008901
2003.4166667	|	****	|		-0.018361
2003.5000000	|	*****	|		-0.055828
2003.5833333	|	*****	|		-0.044277
2003.6666667	|	*	|		-0.002792
2003.7500000	|		****	|	0.018136
2003.8333333	|			|	0.000710
2003.9166667	|	*****	|		-0.045036
2004.0000000	|		*****	|	0.026422
2004.0833333	|		***	|	0.013038
2004.1666667	|		*	|	-0.004043
2004.2500000	|		**	|	0.011181
2004.3333333	|		**	|	0.008539
2004.4166667	|		***	|	0.014331
2004.5000000	|		***	|	-0.016194
2004.5833333	|		***	|	-0.016965
2004.6666667	|		*****	|	0.031044
2004.7500000	|			|	-0.002486
2004.8333333	|		*	|	0.003268
2004.9166667	|			|	-0.000602
2005.0000000	|	*****	|		-0.028748
2005.0833333	|		****	|	0.018091
2005.1666667	|		**	|	0.008570
2005.2500000	|	*****	|		-0.040010
2005.3333333	|		*	|	0.005310
2005.4166667	|		***	|	-0.013652
2005.5000000	|		****	|	-0.018824
2005.5833333	|			|	0.001000
2005.6666667	|		*****	|	0.030482
2005.7500000	|		*****	|	0.048355
2005.8333333	|		***	|	-0.015113
2005.9166667	|		*	|	0.005321
2006.0000000	|		****	|	0.018390
2006.0833333	|		**	|	0.009071
2006.1666667	|		**	|	0.010312
2006.2500000	|	*****	|		-0.024616
2006.3333333	|		**	|	0.010332
2006.4166667	|		**	|	-0.012353
2006.5000000	|		*	|	-0.003950
2006.5833333	|		**	|	0.008484
2006.6666667	|		**	|	0.009287
2006.7500000	|	****	|		-0.019368
2006.8333333	|		*	|	-0.007211
2006.9166667	|		****	|	-0.021615
2007.0000000	|	*****	|		-0.036676
2007.0833333	|		****	|	-0.019886
2007.1666667	|		***	|	-0.015674

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

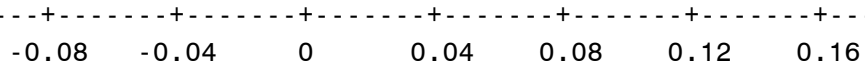
2007.2500000	*****	-0.050772
2007.3333333	*****	-0.039737
2007.4166667	*****	-0.023606
2007.5000000	****	-0.018242
2007.5833333	***	-0.017117
2007.6666667	***	0.016407
2007.7500000	*	0.004025
2007.8333333	*****	-0.038024
2007.9166667	***	-0.016269
2008.0000000	**	0.008381
2008.0833333	***	0.013568
2008.1666667	****	0.020439
2008.2500000	***	0.017220
2008.3333333	*****	0.032202
2008.4166667	*****	0.049587
2008.5000000	*****	0.027999
2008.5833333	*****	0.042535
2008.6666667	**	0.011369
2008.7500000	*****	-0.097937
2008.8333333	*****	-0.114291
2008.9166667	*****	-0.052224
2009.0000000		-0.000339
2009.0833333	**	-0.010575
2009.1666667	*****	-0.029219
2009.2500000	*	-0.005596
2009.3333333	****	-0.020492
2009.4166667	*****	0.024764
2009.5000000	*****	0.044279
2009.5833333	*****	0.037422
2009.6666667	*****	0.051110
2009.7500000	*****	0.038888
2009.8333333	**	0.008311
2009.9166667	*****	0.050378
2010.0000000	*****	0.070109
2010.0833333	*****	0.026497
2010.1666667	*****	0.045722
2010.2500000	**	0.010896
2010.3333333	*****	0.024022
2010.4166667	*****	-0.024379
2010.5000000	****	-0.021933
2010.5833333		-0.001721
2010.6666667	*****	-0.037595
2010.7500000	*****	-0.030903
2010.8333333	****	0.020004
2010.9166667	*****	0.063747
2011.0000000	*****	0.023962
2011.0833333	*****	-0.047379
2011.1666667	*****	0.031089
2011.2500000	*	-0.006418
2011.3333333	****	0.017993

INDIANA SERVICE AREA
 MANUFACTURING ENERGY SALES
 MODEL RESIDUALS

2011.4166667		*****	0.034790
2011.5000000	*****		-0.033097
2011.5833333		*****	0.036142
2011.6666667		*****	0.043629
2011.7500000	**		-0.007985
2011.8333333		**	0.010704
2011.9166667		****	0.021457
2012.0000000		*****	0.027854
2012.0833333	****		-0.020946
2012.1666667	****		-0.018788
2012.2500000		*****	0.022947
2012.3333333	*		-0.006887
2012.4166667	****		-0.022014
2012.5000000			0.001836
2012.5833333	*		-0.006266
2012.6666667	**		-0.009320
2012.7500000		*	0.007233
2012.8333333		*****	0.067986
2012.9166667		****	0.017681
2013.0000000		*****	0.025984
2013.0833333		*****	0.032446
2013.1666667	*		-0.005645
2013.2500000	**		-0.012492
2013.3333333		***	0.016180
2013.4166667	**		-0.008217
2013.5000000		*****	0.026163
2013.5833333	*****		-0.029278
2013.6666667		*****	0.029654
2013.7500000		*	0.005902
2013.8333333		*****	0.034909
2013.9166667		*	0.003342
2014.0000000	*****		-0.028935
2014.0833333	**		-0.010851
2014.1666667		****	0.019551
2014.2500000		****	0.020103
2014.3333333		****	0.019667
2014.4166667			0.001493
2014.5000000		***	0.016954
2014.5833333	**		-0.008060
2014.6666667	****		-0.021049
2014.7500000		*	0.002556
2014.8333333		*****	0.043248
2014.9166667		**	0.009215
2015.0000000			0.001225
2015.0833333	*****		-0.039108
2015.1666667	*****		-0.063678
2015.2500000	*****		-0.030395
2015.3333333	***		-0.014785
2015.4166667		**	0.010679
2015.5000000	*****		-0.029565

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

2015.5833333	**	-0.010047
2015.6666667	*****	-0.027505
2015.7500000	*****	-0.062859
2015.8333333	*****	-0.048573
2015.9166667	*****	0.029758
2016.0000000	*****	-0.036417
2016.0833333	**	0.011548
2016.1666667	****	0.020608
2016.2500000	***	0.015060
2016.3333333	*	0.004875
2016.4166667	***	0.016279
2016.5000000	****	0.019318
2016.5833333	*	0.002727
2016.6666667	***	-0.017221
2016.7500000	*****	-0.074817
2016.8333333	*****	0.022582
2016.9166667	***	0.014441
2017.0000000	*****	0.030248
2017.0833333	*	0.004197
2017.1666667	**	0.009539
2017.2500000	***	-0.015432
2017.3333333	*****	-0.053786
2017.4166667	*****	-0.025244
2017.5000000	*	0.005686
2017.5833333	*	0.004165
2017.6666667	**	-0.009862
2017.7500000	**	-0.012430
2017.8333333	*****	0.031619
2017.9166667	*****	0.027455
2018.0000000	*****	0.029878
2018.0833333	***	-0.014650
2018.1666667	**	0.010324
2018.2500000	****	0.020688
2018.3333333	*	-0.006179
2018.4166667	*	-0.003687
2018.5000000	*****	0.022589
2018.5833333	***	-0.014942
2018.6666667	*	-0.003759
2018.7500000	***	-0.015484
2018.8333333		0.001021
2018.9166667		-0.002126
2019.0000000		-0.000381



Residual Values

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ACTUAL AND FORECAST

year	ENERGY SALES	GROWTH SALES	BASE ENERGY	ADDITIONS
1995	5594.15	.	5594.15	0.000
1996	6314.512	12.9	6314.51	0.000
1997	6520.515	3.3	6520.51	0.000
1998	6763.596	3.7	6763.60	0.000
1999	7123.156	5.3	7123.16	0.000
2000	7138.338	0.2	7138.34	0.000
2001	7067.704	-1.0	7067.70	0.000
2002	7065.504	0.0	7065.50	0.000
2003	6852.608	-3.0	6852.61	0.000
2004	7045.28	2.8	7045.28	0.000
2005	7022.773	-0.3	7022.77	0.000
2006	7016.164	-0.1	7016.16	0.000
2007	6926.731	-1.3	6926.73	0.000
2008	6587.834	-4.9	6587.83	0.000
2009	6004.383	-8.9	6004.38	0.000
2010	6580.516	9.6	6580.52	0.000
2011	6725.126	2.2	6725.13	0.000
2012	6753.879	0.4	6753.88	0.000
2013	6721.776	-0.5	6721.78	0.000
2014	6858.051	2.0	6858.05	0.000
2015	6749.086	-1.6	6749.09	0.000
2016	6924.429	2.6	6924.43	0.000
2017	6918.848	-0.1	6918.85	0.000
2018	6993.349	1.1	6993.35	0.000
2019	6983.05	-0.1	6977.00	6.048
2020	6870.743	-1.6	6861.67	9.072
2021	6923.579	0.8	6914.51	9.072
2022	7063.051	2.0	7053.98	9.072
2023	7060.474	0.0	7051.40	9.072
2024	7013.036	-0.7	7003.96	9.072
2025	7033.092	0.3	7024.02	9.072
2026	7051.364	0.3	7042.29	9.072
2027	7055.157	0.1	7046.09	9.072
2028	7105.366	0.7	7096.29	9.072
2029	7161.06	0.8	7151.99	9.072
2030	7198.311	0.5	7189.24	9.072
2031	7244.194	0.6	7235.12	9.072
2032	7293.668	0.7	7284.60	9.072
2033	7349.271	0.8	7340.20	9.072
2034	7406.029	0.8	7396.96	9.072
2035	7451.11	0.6	7442.04	9.072
2036	7483.483	0.4	7474.41	9.072
2037	7513.832	0.4	7504.76	9.072
2038	7548.682	0.5	7539.61	9.072
2039	7588.493	0.5	7579.42	9.072
2040	7629.128	0.5	7620.06	9.072

INDIANA MICHIGAN POWER COMPANY
INDIANA SERVICE AREA
MANUFACTURING ENERGY SALES
ACTUAL AND FORECAST

year	ENERGY SALES	GROWTH SALES	BASE ENERGY	ADDITIONS
2041	7660.378	0.4	7651.31	9.072
2042	7691.588	0.4	7682.52	9.072
2043	7725.545	0.4	7716.47	9.072
2044	7751.764	0.3	7742.69	9.072
2045	7782.222	0.4	7773.15	9.072
2046	7818.45	0.5	7809.38	9.072
2047	7851.087	0.4	7842.02	9.072
2048	7880.348	0.4	7871.28	9.072
2049	7908.605	0.4	7899.53	9.072
2050	7936.128	0.3	7927.06	9.072
2051	7963.626	0.3	7954.55	9.072
2052	7991.509	0.4	7982.44	9.072
2053	8019.639	0.4	8010.57	9.072
2054	8047.893	0.4	8038.82	9.072

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
year	year	2025.00
month	month	6.5000000
ei_imm	BILLED KWH	78.4175958

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
1	1996	1	81.26903
2	1996	2	81.37066
3	1996	3	78.49644
4	1996	4	80.64689
5	1996	5	86.41693
6	1996	6	82.05984
7	1996	7	85.66408
8	1996	8	91.60493
9	1996	9	84.75087
10	1996	10	91.46694
11	1996	11	76.18953
12	1996	12	78.83417
13	1997	1	80.5542
14	1997	2	79.10176
15	1997	3	78.97656
16	1997	4	85.91291
17	1997	5	81.42801
18	1997	6	84.14897
19	1997	7	85.39177
20	1997	8	85.09273
21	1997	9	87.24156
22	1997	10	90.80583
23	1997	11	74.508
24	1997	12	98.53492
25	1998	1	85.80106
26	1998	2	62.72196
27	1998	3	86.08426
28	1998	4	86.13675
29	1998	5	85.17974
30	1998	6	88.364
31	1998	7	80.78783
32	1998	8	87.10617
33	1998	9	91.83678
34	1998	10	87.18463
35	1998	11	86.05513
36	1998	12	89.42779
37	1999	1	82.57047
38	1999	2	85.58893
39	1999	3	85.74904
40	1999	4	85.31843
41	1999	5	82.73667
42	1999	6	89.58861
43	1999	7	90.62837
44	1999	8	94.73174
45	1999	9	95.30552
46	1999	10	91.54591
47	1999	11	88.26308
48	1999	12	94.4064
49	2000	1	88.87714

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
50	2000	2	90.04697
51	2000	3	88.25445
52	2000	4	89.10588
53	2000	5	91.64089
54	2000	6	94.67361
55	2000	7	88.3079
56	2000	8	93.66353
57	2000	9	95.11026
58	2000	10	92.66871
59	2000	11	89.58849
60	2000	12	92.66635
61	2001	1	85.10768
62	2001	2	87.8613
63	2001	3	84.94215
64	2001	4	86.70396
65	2001	5	87.03094
66	2001	6	89.19636
67	2001	7	87.95158
68	2001	8	91.81009
69	2001	9	90.78078
70	2001	10	80.13073
71	2001	11	88.96903
72	2001	12	84.32138
73	2002	1	80.2269
74	2002	2	88.41459
75	2002	3	86.95629
76	2002	4	89.45461
77	2002	5	85.26433
78	2002	6	91.46696
79	2002	7	91.33153
80	2002	8	92.9287
81	2002	9	97.00443
82	2002	10	91.36568
83	2002	11	88.28714
84	2002	12	90.33748
85	2003	1	86.13823
86	2003	2	90.05955
87	2003	3	86.79425
88	2003	4	87.16948
89	2003	5	87.2804
90	2003	6	89.07687
91	2003	7	85.73786
92	2003	8	90.46078
93	2003	9	88.98538
94	2003	10	88.51511
95	2003	11	87.53365
96	2003	12	92.44282
97	2004	1	84.29869
98	2004	2	88.98091

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
99	2004	3	88.96414
100	2004	4	89.16239
101	2004	5	89.63378
102	2004	6	90.57528
103	2004	7	90.88948
104	2004	8	90.56901
105	2004	9	95.38099
106	2004	10	91.65698
107	2004	11	86.68668
108	2004	12	89.9547
109	2005	1	87.876
110	2005	2	87.48109
111	2005	3	88.90566
112	2005	4	86.1268
113	2005	5	85.87394
114	2005	6	91.57503
115	2005	7	88.04321
116	2005	8	93.32781
117	2005	9	96.13776
118	2005	10	91.42104
119	2005	11	85.39933
120	2005	12	89.11953
121	2006	1	83.53996
122	2006	2	84.11444
123	2006	3	82.62335
124	2006	4	81.37117
125	2006	5	86.64612
126	2006	6	90.31928
127	2006	7	87.84785
128	2006	8	89.96782
129	2006	9	89.4815
130	2006	10	83.8125
131	2006	11	81.08361
132	2006	12	84.8054
133	2007	1	78.90856
134	2007	2	82.09827
135	2007	3	81.41121
136	2007	4	81.02161
137	2007	5	85.92455
138	2007	6	89.07955
139	2007	7	84.7709
140	2007	8	88.93509
141	2007	9	88.94326
142	2007	10	82.52176
143	2007	11	80.6891
144	2007	12	79.15715
145	2008	1	77.86415
146	2008	2	78.44114
147	2008	3	78.12017

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
148	2008	4	76.36517
149	2008	5	75.04132
150	2008	6	79.38275
151	2008	7	77.41948
152	2008	8	80.47174
153	2008	9	77.79922
154	2008	10	75.91533
155	2008	11	72.57419
156	2008	12	69.88974
157	2009	1	62.34651
158	2009	2	63.96457
159	2009	3	60.23692
160	2009	4	65.99003
161	2009	5	61.24332
162	2009	6	63.32957
163	2009	7	64.29485
164	2009	8	70.30309
165	2009	9	71.66389
166	2009	10	69.25036
167	2009	11	64.47775
168	2009	12	72.75968
169	2010	1	66.93099
170	2010	2	69.84961
171	2010	3	69.57689
172	2010	4	69.85888
173	2010	5	68.1835
174	2010	6	77.1825
175	2010	7	75.07615
176	2010	8	78.89755
177	2010	9	73.22284
178	2010	10	71.69062
179	2010	11	57.11209
180	2010	12	75.61175
181	2011	1	64.11417
182	2011	2	58.70715
183	2011	3	76.34497
184	2011	4	63.16203
185	2011	5	68.44654
186	2011	6	68.64219
187	2011	7	67.52532
188	2011	8	71.23936
189	2011	9	65.09892
190	2011	10	66.50469
191	2011	11	63.90349
192	2011	12	63.12388
193	2012	1	64.01405
194	2012	2	66.90474
195	2012	3	65.04706
196	2012	4	66.87423

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
197	2012	5	63.82379
198	2012	6	71.49132
199	2012	7	67.99858
200	2012	8	73.05121
201	2012	9	69.79121
202	2012	10	61.2088
203	2012	11	65.14232
204	2012	12	64.65394
205	2013	1	60.20176
206	2013	2	65.23434
207	2013	3	64.76778
208	2013	4	67.13524
209	2013	5	67.3887
210	2013	6	70.09847
211	2013	7	70.73678
212	2013	8	70.36373
213	2013	9	72.90328
214	2013	10	71.45631
215	2013	11	68.26159
216	2013	12	66.7212
217	2014	1	68.19889
218	2014	2	66.26581
219	2014	3	67.97414
220	2014	4	68.23752
221	2014	5	68.90786
222	2014	6	71.26
223	2014	7	73.51391
224	2014	8	71.37353
225	2014	9	74.8654
226	2014	10	68.94551
227	2014	11	69.04186
228	2014	12	69.15424
229	2015	1	66.71624
230	2015	2	74.68405
231	2015	3	59.49982
232	2015	4	68.35323
233	2015	5	68.09056
234	2015	6	72.42877
235	2015	7	72.87303
236	2015	8	74.891
237	2015	9	72.61107
238	2015	10	73.54323
239	2015	11	68.36024
240	2015	12	71.39989
241	2016	1	68.51607
242	2016	2	64.91358
243	2016	3	70.90616
244	2016	4	67.99165
245	2016	5	65.99767

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
246	2016	6	71.26169
247	2016	7	69.45866
248	2016	8	74.64087
249	2016	9	73.2149
250	2016	10	69.14363
251	2016	11	65.08376
252	2016	12	67.6136
253	2017	1	65.27572
254	2017	2	65.62757
255	2017	3	63.87053
256	2017	4	63.27431
257	2017	5	65.62353
258	2017	6	71.27646
259	2017	7	71.06417
260	2017	8	70.37467
261	2017	9	69.6531
262	2017	10	69.66453
263	2017	11	66.4779
264	2017	12	70.1485
265	2018	1	65.56244
266	2018	2	66.4933
267	2018	3	65.22711
268	2018	4	66.99018
269	2018	5	66.171
270	2018	6	70.4401
271	2018	7	70.30878
272	2018	8	71.70706
273	2018	9	72.58022
274	2018	10	68.89134
275	2018	11	65.97867
276	2018	12	66.44363
277	2019	1	64.85162
278	2019	2	.
279	2019	3	.
280	2019	4	.
281	2019	5	.
282	2019	6	.
283	2019	7	.
284	2019	8	.
285	2019	9	.
286	2019	10	.
287	2019	11	.
288	2019	12	.
289	2020	1	.
290	2020	2	.
291	2020	3	.
292	2020	4	.
293	2020	5	.
294	2020	6	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
295	2020	7	.
296	2020	8	.
297	2020	9	.
298	2020	10	.
299	2020	11	.
300	2020	12	.
301	2021	1	.
302	2021	2	.
303	2021	3	.
304	2021	4	.
305	2021	5	.
306	2021	6	.
307	2021	7	.
308	2021	8	.
309	2021	9	.
310	2021	10	.
311	2021	11	.
312	2021	12	.
313	2022	1	.
314	2022	2	.
315	2022	3	.
316	2022	4	.
317	2022	5	.
318	2022	6	.
319	2022	7	.
320	2022	8	.
321	2022	9	.
322	2022	10	.
323	2022	11	.
324	2022	12	.
325	2023	1	.
326	2023	2	.
327	2023	3	.
328	2023	4	.
329	2023	5	.
330	2023	6	.
331	2023	7	.
332	2023	8	.
333	2023	9	.
334	2023	10	.
335	2023	11	.
336	2023	12	.
337	2024	1	.
338	2024	2	.
339	2024	3	.
340	2024	4	.
341	2024	5	.
342	2024	6	.
343	2024	7	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
344	2024	8	.
345	2024	9	.
346	2024	10	.
347	2024	11	.
348	2024	12	.
349	2025	1	.
350	2025	2	.
351	2025	3	.
352	2025	4	.
353	2025	5	.
354	2025	6	.
355	2025	7	.
356	2025	8	.
357	2025	9	.
358	2025	10	.
359	2025	11	.
360	2025	12	.
361	2026	1	.
362	2026	2	.
363	2026	3	.
364	2026	4	.
365	2026	5	.
366	2026	6	.
367	2026	7	.
368	2026	8	.
369	2026	9	.
370	2026	10	.
371	2026	11	.
372	2026	12	.
373	2027	1	.
374	2027	2	.
375	2027	3	.
376	2027	4	.
377	2027	5	.
378	2027	6	.
379	2027	7	.
380	2027	8	.
381	2027	9	.
382	2027	10	.
383	2027	11	.
384	2027	12	.
385	2028	1	.
386	2028	2	.
387	2028	3	.
388	2028	4	.
389	2028	5	.
390	2028	6	.
391	2028	7	.
392	2028	8	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
393	2028	9	.
394	2028	10	.
395	2028	11	.
396	2028	12	.
397	2029	1	.
398	2029	2	.
399	2029	3	.
400	2029	4	.
401	2029	5	.
402	2029	6	.
403	2029	7	.
404	2029	8	.
405	2029	9	.
406	2029	10	.
407	2029	11	.
408	2029	12	.
409	2030	1	.
410	2030	2	.
411	2030	3	.
412	2030	4	.
413	2030	5	.
414	2030	6	.
415	2030	7	.
416	2030	8	.
417	2030	9	.
418	2030	10	.
419	2030	11	.
420	2030	12	.
421	2031	1	.
422	2031	2	.
423	2031	3	.
424	2031	4	.
425	2031	5	.
426	2031	6	.
427	2031	7	.
428	2031	8	.
429	2031	9	.
430	2031	10	.
431	2031	11	.
432	2031	12	.
433	2032	1	.
434	2032	2	.
435	2032	3	.
436	2032	4	.
437	2032	5	.
438	2032	6	.
439	2032	7	.
440	2032	8	.
441	2032	9	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
442	2032	10	.
443	2032	11	.
444	2032	12	.
445	2033	1	.
446	2033	2	.
447	2033	3	.
448	2033	4	.
449	2033	5	.
450	2033	6	.
451	2033	7	.
452	2033	8	.
453	2033	9	.
454	2033	10	.
455	2033	11	.
456	2033	12	.
457	2034	1	.
458	2034	2	.
459	2034	3	.
460	2034	4	.
461	2034	5	.
462	2034	6	.
463	2034	7	.
464	2034	8	.
465	2034	9	.
466	2034	10	.
467	2034	11	.
468	2034	12	.
469	2035	1	.
470	2035	2	.
471	2035	3	.
472	2035	4	.
473	2035	5	.
474	2035	6	.
475	2035	7	.
476	2035	8	.
477	2035	9	.
478	2035	10	.
479	2035	11	.
480	2035	12	.
481	2036	1	.
482	2036	2	.
483	2036	3	.
484	2036	4	.
485	2036	5	.
486	2036	6	.
487	2036	7	.
488	2036	8	.
489	2036	9	.
490	2036	10	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
491	2036	11	.
492	2036	12	.
493	2037	1	.
494	2037	2	.
495	2037	3	.
496	2037	4	.
497	2037	5	.
498	2037	6	.
499	2037	7	.
500	2037	8	.
501	2037	9	.
502	2037	10	.
503	2037	11	.
504	2037	12	.
505	2038	1	.
506	2038	2	.
507	2038	3	.
508	2038	4	.
509	2038	5	.
510	2038	6	.
511	2038	7	.
512	2038	8	.
513	2038	9	.
514	2038	10	.
515	2038	11	.
516	2038	12	.
517	2039	1	.
518	2039	2	.
519	2039	3	.
520	2039	4	.
521	2039	5	.
522	2039	6	.
523	2039	7	.
524	2039	8	.
525	2039	9	.
526	2039	10	.
527	2039	11	.
528	2039	12	.
529	2040	1	.
530	2040	2	.
531	2040	3	.
532	2040	4	.
533	2040	5	.
534	2040	6	.
535	2040	7	.
536	2040	8	.
537	2040	9	.
538	2040	10	.
539	2040	11	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
540	2040	12	.
541	2041	1	.
542	2041	2	.
543	2041	3	.
544	2041	4	.
545	2041	5	.
546	2041	6	.
547	2041	7	.
548	2041	8	.
549	2041	9	.
550	2041	10	.
551	2041	11	.
552	2041	12	.
553	2042	1	.
554	2042	2	.
555	2042	3	.
556	2042	4	.
557	2042	5	.
558	2042	6	.
559	2042	7	.
560	2042	8	.
561	2042	9	.
562	2042	10	.
563	2042	11	.
564	2042	12	.
565	2043	1	.
566	2043	2	.
567	2043	3	.
568	2043	4	.
569	2043	5	.
570	2043	6	.
571	2043	7	.
572	2043	8	.
573	2043	9	.
574	2043	10	.
575	2043	11	.
576	2043	12	.
577	2044	1	.
578	2044	2	.
579	2044	3	.
580	2044	4	.
581	2044	5	.
582	2044	6	.
583	2044	7	.
584	2044	8	.
585	2044	9	.
586	2044	10	.
587	2044	11	.
588	2044	12	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
589	2045	1	.
590	2045	2	.
591	2045	3	.
592	2045	4	.
593	2045	5	.
594	2045	6	.
595	2045	7	.
596	2045	8	.
597	2045	9	.
598	2045	10	.
599	2045	11	.
600	2045	12	.
601	2046	1	.
602	2046	2	.
603	2046	3	.
604	2046	4	.
605	2046	5	.
606	2046	6	.
607	2046	7	.
608	2046	8	.
609	2046	9	.
610	2046	10	.
611	2046	11	.
612	2046	12	.
613	2047	1	.
614	2047	2	.
615	2047	3	.
616	2047	4	.
617	2047	5	.
618	2047	6	.
619	2047	7	.
620	2047	8	.
621	2047	9	.
622	2047	10	.
623	2047	11	.
624	2047	12	.
625	2048	1	.
626	2048	2	.
627	2048	3	.
628	2048	4	.
629	2048	5	.
630	2048	6	.
631	2048	7	.
632	2048	8	.
633	2048	9	.
634	2048	10	.
635	2048	11	.
636	2048	12	.
637	2049	1	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
638	2049	2	.
639	2049	3	.
640	2049	4	.
641	2049	5	.
642	2049	6	.
643	2049	7	.
644	2049	8	.
645	2049	9	.
646	2049	10	.
647	2049	11	.
648	2049	12	.
649	2050	1	.
650	2050	2	.
651	2050	3	.
652	2050	4	.
653	2050	5	.
654	2050	6	.
655	2050	7	.
656	2050	8	.
657	2050	9	.
658	2050	10	.
659	2050	11	.
660	2050	12	.
661	2051	1	.
662	2051	2	.
663	2051	3	.
664	2051	4	.
665	2051	5	.
666	2051	6	.
667	2051	7	.
668	2051	8	.
669	2051	9	.
670	2051	10	.
671	2051	11	.
672	2051	12	.
673	2052	1	.
674	2052	2	.
675	2052	3	.
676	2052	4	.
677	2052	5	.
678	2052	6	.
679	2052	7	.
680	2052	8	.
681	2052	9	.
682	2052	10	.
683	2052	11	.
684	2052	12	.
685	2053	1	.
686	2053	2	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	year	month	ei_imm
687	2053	3	.
688	2053	4	.
689	2053	5	.
690	2053	6	.
691	2053	7	.
692	2053	8	.
693	2053	9	.
694	2053	10	.
695	2053	11	.
696	2053	12	.
697	2054	1	.
698	2054	2	.
699	2054	3	.
700	2054	4	.
701	2054	5	.
702	2054	6	.
703	2054	7	.
704	2054	8	.
705	2054	9	.
706	2054	10	.
707	2054	11	.
708	2054	12	.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
year	year	2025.00
month	month	6.5000000
LM_IMM	SERVICE AREA MANUFACTURING EMPLOYMENT	25.8402069
grpmpf_imm	SERVICE AREA GROSS REGIONAL PRODUCT-MANUF.	4121.05
d14on	BINARY VARIABLE-2014 ON	0.6949153
d1	JANUARY	0.0833333
d2	FEBRUARY	0.0833333
d3	MARCH	0.0833333
d4	APRIL	0.0833333
d5	MAY	0.0833333
d6	JUNE	0.0833333
d7	JULY	0.0833333
d8	AUGUST	0.0833333
d9	SEPTEMBER	0.0833333
d10	OCTOBER	0.0833333
d11	NOVEMBER	0.0833333
d981	BINARY VARIABLE-JANUARY 1998	0.0014124
d964992	BINARY VARIABLE-APRIL 1996 THROUGH FEBRUARY 1999	0.0437853
d033qon	BINARY VARIABLE-JULY 2003 ON	0.8728814
d052qon	BINARY VARIABLE-APRIL 2005 ON	0.8432203
d074on	BINARY VARIABLE-APRIL 2007 ON	0.8008475
d10on	BINARY VARIABLE-2010 ON	0.7627119
feb16on	BINARY VARIABLE-FEBRUARY 2016 ON	0.6596045

MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

			L	g r p m	f	d									d	d	d		f					
		m	M			1									6	3	5		d	b				
	y	o	I			4								d	4	3	2	7	1	1				
0	e	n	M	i	o	1	d	d	d	d	d	d	d	1	1	8	9	9	q	q				
b	a	t	M	m	o	n	1	2	3	4	5	6	7	8	9	0	1	1	2	n	n			
s	r	h	M	m	n	1	2	3	4	5	6	7	8	9	0	1	1	2	n	n	n			
124	2006	4	30.204	3359.37	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.	
125	2006	5	30.179	3373.03	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
126	2006	6	30.158	3389.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
127	2006	7	30.139	3408.94	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	CONFID.
128	2006	8	30.122	3431.51	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	CONFID.
129	2006	9	30.105	3455.92	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	CONFID.
130	2006	10	30.093	3481.92	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	CONFID.
131	2006	11	30.081	3508.92	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	CONFID.
132	2006	12	30.073	3536.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
133	2007	1	30.067	3563.98	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
134	2007	2	30.064	3589.56	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
135	2007	3	30.065	3613.84	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
136	2007	4	30.069	3637.05	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
137	2007	5	30.076	3657.71	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
138	2007	6	30.085	3675.25	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	CONFID.
139	2007	7	30.101	3689.06	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	CONFID.
140	2007	8	30.115	3698.63	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	CONFID.
141	2007	9	30.123	3702.98	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	CONFID.
142	2007	10	30.119	3701.56	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	CONFID.
143	2007	11	30.095	3693.75	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	CONFID.
144	2007	12	30.043	3678.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
145	2008	1	29.956	3655.65	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
146	2008	2	29.831	3624.95	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
147	2008	3	29.660	3585.30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
148	2008	4	29.434	3535.31	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
149	2008	5	29.146	3474.75	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
150	2008	6	28.788	3403.06	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
151	2008	7	28.355	3319.56	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	CONFID.
152	2008	8	27.846	3223.99	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	CONFID.
153	2008	9	27.287	3122.52	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	CONFID.
154	2008	10	26.690	3016.93	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	CONFID.
155	2008	11	26.069	2910.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	CONFID.
156	2008	12	25.440	2806.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
157	2009	1	24.808	2706.66	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
158	2009	2	24.231	2620.14	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
159	2009	3	23.691	2545.19	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
160	2009	4	23.186	2482.66	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
161	2009	5	22.753	2438.83	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
162	2009	6	22.405	2416.73	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	CONFID.
163	2009	7	22.158	2419.64	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	CONFID.
164	2009	8	22.014	2447.90	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	CONFID.

INDIANA MICHIGAN POWER COMPANY

MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

O b s	y e a r	m o n t h	L	g	d	1	2	3	4	5	6	7	8	9	10	11	12	d	d	d	d	f	P		
			M	r p m																				6	3	5	0	d	b	R
			I	i	4	1	2	3	4	5	6	7	8	9	0	1	1	8	9	q	q	4	0	6	I
			M	m	o	n	1	2	3	4	5	6	7	8	9	0	1	1	8	9	o	o	o	o	C
			M	m	n	1	2	3	4	5	6	7	8	9	0	1	1	2	n	n	n	n	n	E	
165	2009	9	21.963	2497.07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	CONFID.	
166	2009	10	21.992	2563.72	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	CONFID.	
167	2009	11	22.086	2643.84	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	CONFID.		
168	2009	12	22.232	2733.71	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	CONFID.	
169	2010	1	22.419	2831.02	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
170	2010	2	22.622	2925.57	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
171	2010	3	22.837	3018.45	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
172	2010	4	23.059	3109.10	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
173	2010	5	23.269	3190.39	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
174	2010	6	23.452	3258.61	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
175	2010	7	23.596	3309.95	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	CONDID.	
176	2010	8	23.698	3343.98	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	CONFID.	
177	2010	9	23.759	3361.48	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
178	2010	10	23.790	3365.20	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
179	2010	11	23.792	3357.43	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	CONFID.	
180	2010	12	23.773	3340.23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
181	2011	1	23.738	3315.39	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
182	2011	2	23.693	3286.92	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
183	2011	3	23.645	3255.66	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
184	2011	4	23.597	3222.57	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
185	2011	5	23.554	3190.82	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
186	2011	6	23.523	3162.54	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
187	2011	7	23.510	3139.85	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	CONDID.	
188	2011	8	23.516	3123.34	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	CONFID.	
189	2011	9	23.538	3113.09	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
190	2011	10	23.575	3108.22	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
191	2011	11	23.626	3108.09	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	CONFID.	
192	2011	12	23.684	3112.14	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
193	2012	1	23.748	3119.90	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
194	2012	2	23.818	3130.32	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
195	2012	3	23.888	3143.07	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
196	2012	4	23.958	3157.78	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
197	2012	5	24.025	3173.71	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
198	2012	6	24.088	3190.24	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
199	2012	7	24.141	3206.80	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	CONDID.	
200	2012	8	24.187	3223.39	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	CONFID.	
201	2012	9	24.228	3239.53	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
202	2012	10	24.265	3255.58	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	CONFID.	
203	2012	11	24.303	3271.61	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	CONFID.	
204	2012	12	24.344	3287.71	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	
205	2013	1	24.391	3304.22	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	CONFID.	

INDIANA MICHIGAN POWER COMPANY
 MICHIGAN SERVICE AREA
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Year	Month	L	M	g r p m f	d	d												d	d	d	d	d	f	P	
						1	2	3	4	5	6	7	8	9	0	1	1								8	9	q	q	4	0	6	R	I	C	E
206	2013	2	24.444	3320.15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
207	2013	3	24.507	3336.38	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
208	2013	4	24.587	3353.54	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
209	2013	5	24.682	3371.18	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
210	2013	6	24.798	3389.37	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
211	2013	7	24.935	3408.19	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
212	2013	8	25.097	3427.84	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	CONFID.
213	2013	9	25.273	3447.37	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	CONFID.
214	2013	10	25.462	3466.77	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	CONFID.
215	2013	11	25.659	3485.70	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	CONFID.
216	2013	12	25.859	3503.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
217	2014	1	26.063	3521.12	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
218	2014	2	26.253	3536.18	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
219	2014	3	26.433	3549.55	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
220	2014	4	26.606	3561.33	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
221	2014	5	26.762	3570.66	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
222	2014	6	26.893	3577.26	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
223	2014	7	27.000	3580.77	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
224	2014	8	27.079	3581.19	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	CONFID.
225	2014	9	27.134	3578.83	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	CONFID.
226	2014	10	27.166	3574.05	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	CONFID.
227	2014	11	27.179	3567.20	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	CONFID.
228	2014	12	27.179	3558.62	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
229	2015	1	27.166	3548.48	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
230	2015	2	27.144	3537.85	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
231	2015	3	27.118	3526.55	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
232	2015	4	27.087	3514.52	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
233	2015	5	27.060	3502.46	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
234	2015	6	27.033	3490.72	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
235	2015	7	27.015	3479.64	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
236	2015	8	27.004	3469.26	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	CONFID.
237	2015	9	27.001	3459.99	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	CONFID.
238	2015	10	27.004	3451.70	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	CONFID.
239	2015	11	27.011	3444.43	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	CONFID.
240	2015	12	27.026	3438.26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
241	2016	1	27.043	3433.15	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	CONFID.
242	2016	2	27.063	3429.37	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
243	2016	3	27.086	3426.81	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
244	2016	4	27.109	3425.48	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
245	2016	5	27.134	3425.50	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
246	2016	6	27.157	3426.91	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.

Year	Month	Price	Quantity	Group	Variable 1	Variable 2	Variable 3	Variable 4	Variable 5	Variable 6	Variable 7	Variable 8	Variable 9	Variable 10	Variable 11	Variable 12	Variable 13	Variable 14	Variable 15	Variable 16	Variable 17	Variable 18	
247	2016	7	27.180	3429.78	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
248	2016	8	27.203	3434.14	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
249	2016	9	27.223	3439.74	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
250	2016	10	27.242	3446.55	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
251	2016	11	27.262	3454.43	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
252	2016	12	27.281	3463.28	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
253	2017	1	27.303	3473.14	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
254	2017	2	27.324	3483.23	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
255	2017	3	27.348	3493.92	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
256	2017	4	27.374	3505.46	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
257	2017	5	27.402	3517.40	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
258	2017	6	27.434	3529.63	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONFID.
259	2017	7	27.471	3542.03	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
260	2017	8	27.509	3554.74	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
261	2017	9	27.552	3567.32	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
262	2017	10	27.595	3579.94	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
263	2017	11	27.641	3592.58	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.
264	2017	12	27.686	3605.21	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
265	2018	1	27.733	3618.01	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
266	2018	2	27.776	3630.14	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
267	2018	3	27.818	3642.20	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
268	2018	4	27.859	3654.55	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
269	2018	5	27.897	3666.77	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
270	2018	6	27.932	3678.83	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONFID.
271	2018	7	27.962	3690.70	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
272	2018	8	27.989	3702.49	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
273	2018	9	28.010	3713.68	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
274	2018	10	28.025	3724.31	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
275	2018	11	28.038	3734.26	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.
276	2018	12	28.045	3743.36	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
277	2019	1	28.048	3751.62	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
278	2019	2	28.047	3758.41	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
279	2019	3	28.043	3764.01	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
280	2019	4	28.034	3768.43	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
281	2019	5	28.020	3771.32	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
282	2019	6	28.004	3772.53	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONFID.
283	2019	7	27.982	3771.93	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
284	2019	8	27.959	3769.57	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
285	2019	9	27.931	3765.86	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
286	2019	10	27.900	3761.10	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
287	2019	11	27.867	3755.66	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.

O b s	y e a r	m o n t h	L M I M M	g r p m f i m m	d 1 4 o n	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 0	d 1	d 1	d 1	d 2	d n	d n	d n	d n	f e b 1 1 o o o n	P R I C E	
288	2019	12	27.829	3749.87	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.	
289	2020	1	27.790	3744.00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
290	2020	2	27.749	3738.67	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
291	2020	3	27.705	3734.03	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
292	2020	4	27.659	3730.33	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
293	2020	5	27.611	3728.04	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
294	2020	6	27.561	3727.48	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
295	2020	7	27.510	3729.00	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONDID.
296	2020	8	27.457	3732.73	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
297	2020	9	27.403	3738.35	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONFID.
298	2020	10	27.350	3745.71	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
299	2020	11	27.298	3754.57	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
300	2020	12	27.246	3764.71	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
301	2021	1	27.195	3776.12	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
302	2021	2	27.149	3787.78	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
303	2021	3	27.105	3800.04	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
304	2021	4	27.063	3813.13	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
305	2021	5	27.023	3826.41	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
306	2021	6	26.989	3839.68	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
307	2021	7	26.960	3852.72	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONDID.
308	2021	8	26.934	3865.58	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
309	2021	9	26.912	3877.77	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
310	2021	10	26.896	3889.42	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
311	2021	11	26.880	3900.47	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
312	2021	12	26.867	3910.84	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
313	2022	1	26.855	3920.61	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
314	2022	2	26.845	3929.12	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
315	2022	3	26.833	3936.78	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
316	2022	4	26.823	3943.77	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
317	2022	5	26.811	3949.70	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
318	2022	6	26.795	3954.54	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
319	2022	7	26.776	3958.20	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONDID.
320	2022	8	26.757	3960.77	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
321	2022	9	26.733	3962.35	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONFID.
322	2022	10	26.707	3963.16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
323	2022	11	26.679	3963.41	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
324	2022	12	26.652	3963.26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
325	2023	1	26.621	3962.91	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
326	2023	2	26.591	3962.57	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
327	2023	3	26.560	3962.38	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
328	2023	4	26.530	3962.53	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.

INDIANA MICHIGAN POWER COMPANY
 MICHIGAN SERVICE AREA
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 EXOGENOUS VARIABLES

O b s	y e a r	m o n t h	L M I M M	g r p m f i m	d 1 4	d n	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 0	d 1	d 1	d 1	d 1	d 1	d 1	f e b 1 1 6 0 0	P R I C E
575	2043	11	21.293	5080.19	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	CONFID.
576	2043	12	21.273	5083.17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
577	2044	1	21.252	5086.18	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
578	2044	2	21.231	5089.07	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
579	2044	3	21.212	5091.93	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
580	2044	4	21.191	5094.82	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
581	2044	5	21.171	5097.69	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
582	2044	6	21.151	5100.53	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
583	2044	7	21.131	5103.35	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	CONDID.
584	2044	8	21.110	5106.18	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	CONFID.
585	2044	9	21.091	5108.96	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	CONFID.
586	2044	10	21.070	5111.71	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	CONFID.
587	2044	11	21.050	5114.45	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	CONFID.
588	2044	12	21.029	5117.18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
589	2045	1	21.009	5119.94	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
590	2045	2	20.991	5122.56	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
591	2045	3	20.970	5125.18	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
592	2045	4	20.951	5127.89	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
593	2045	5	20.930	5130.61	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
594	2045	6	20.910	5133.32	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
595	2045	7	20.890	5136.05	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	CONDID.
596	2045	8	20.870	5138.83	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	CONFID.
597	2045	9	20.849	5141.57	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	CONFID.
598	2045	10	20.829	5144.31	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	CONFID.
599	2045	11	20.809	5147.04	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	CONFID.
600	2045	12	20.788	5149.75	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
601	2046	1	20.767	5152.49	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
602	2046	2	20.747	5155.08	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
603	2046	3	20.727	5157.63	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
604	2046	4	20.707	5160.24	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
605	2046	5	20.687	5162.81	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
606	2046	6	20.666	5165.34	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
607	2046	7	20.647	5167.81	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	CONDID.
608	2046	8	20.626	5170.27	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	CONFID.
609	2046	9	20.606	5172.63	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	CONFID.
610	2046	10	20.585	5174.95	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	CONFID.
611	2046	11	20.565	5177.23	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	CONFID.
612	2046	12	20.545	5179.46	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
613	2047	1	20.524	5181.69	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
614	2047	2	20.505	5183.77	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.
615	2047	3	20.486	5185.82	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	CONFID.

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Year	Month	L	g	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	f	P		
																							M	r
Obs	Year	Month	M	r	1	2	3	4	5	6	7	8	9	0	1	1	2	n	n	n	n	R		
616	2047	4	20.4660	5187.91	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.	
617	2047	5	20.4470	5189.96	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
618	2047	6	20.4270	5191.99	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
619	2047	7	20.4060	5194.00	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
620	2047	8	20.3860	5196.01	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
621	2047	9	20.3650	5197.96	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
622	2047	10	20.3470	5199.91	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
623	2047	11	20.3260	5201.83	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.
624	2047	12	20.3080	5203.74	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
625	2048	1	20.2870	5205.68	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
626	2048	2	20.2670	5207.54	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
627	2048	3	20.2490	5209.39	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
628	2048	4	20.2290	5211.28	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
629	2048	5	20.2090	5213.16	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
630	2048	6	20.1890	5215.05	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
631	2048	7	20.1700	5216.94	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
632	2048	8	20.1500	5218.87	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
633	2048	9	20.1300	5220.77	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
634	2048	10	20.1100	5222.69	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
635	2048	11	20.0900	5224.62	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.
636	2048	12	20.0700	5226.58	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
637	2049	1	20.0530	5229.86	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
638	2049	2	20.0320	5231.50	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
639	2049	3	20.0150	5233.16	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
640	2049	4	19.9950	5234.84	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
641	2049	5	19.9740	5236.55	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
642	2049	6	19.9541	5238.29	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
643	2049	7	19.9370	5240.07	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
644	2049	8	19.9170	5241.91	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.
645	2049	9	19.8980	5243.77	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	CONFID.
646	2049	10	19.8760	5245.66	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	CONFID.
647	2049	11	19.8570	5247.60	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	CONFID.
648	2049	12	19.8351	5249.59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
649	2050	1	19.8220	5254.25	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
650	2050	2	19.8001	5255.66	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
651	2050	3	19.7841	5257.12	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
652	2050	4	19.7640	5258.60	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
653	2050	5	19.7421	5260.13	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
654	2050	6	19.7221	5261.72	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	CONFID.
655	2050	7	19.7070	5263.39	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	CONDID.
656	2050	8	19.6870	5265.14	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	CONFID.

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model LEI
Dependent Variable LEI

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	22	4.362409	0.198291	106.03	<.0001
Error	254	0.475035	0.001870		
Corrected Total	276	4.837444			

Root MSE	0.04325	R-Square	0.90180
Dependent Mean	4.35341	Adj R-Sq	0.89330
Coeff Var	0.99338		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	3.139655	0.512648	6.12	<.0001	Intercept
lpi36	1	-0.33980	0.066998	-5.07	<.0001	REAL MANUF. ELEC PRICE, 36-MONTH AVE., LOG
lgrpmf	1	0.307708	0.051675	5.95	<.0001	SERVICE AREA GROSS REGIONAL PRODUCT-MANUF., LOG
LM_IMM	1	0.008547	0.002395	3.57	0.0004	SERVICE AREA MANUFACTURING EMPLOYMENT
d1	1	-0.06109	0.012810	-4.77	<.0001	JANUARY
d2	1	-0.04950	0.012810	-3.86	0.0001	FEBRUARY
d3	1	-0.04237	0.012803	-3.31	0.0011	MARCH
d4	1	-0.03163	0.012803	-2.47	0.0141	APRIL
d5	1	-0.03165	0.012809	-2.47	0.0141	MAY
d6	1	0.015009	0.012807	1.17	0.2423	JUNE
d7	1	0.000629	0.012802	0.05	0.9608	JULY
d8	1	0.038512	0.012791	3.01	0.0029	AUGUST
d9	1	0.034970	0.012785	2.74	0.0067	SEPTEMBER
d10	1	0.005623	0.012755	0.44	0.6597	OCTOBER
d11	1	-0.04514	0.012753	-3.54	0.0005	NOVEMBER
feb16on	1	-0.02920	0.011337	-2.58	0.0106	BINARY VARIABLE-FEBRUARY 2016 ON

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
d033qon	1	-0.01808	0.015599	-1.16	0.2476	BINARY VARIABLE-JULY 2003 ON
d981	1	0.074178	0.044863	1.65	0.0995	BINARY VARIABLE-JANUARY 1998
d964992	1	-0.02520	0.010847	-2.32	0.0210	BINARY VARIABLE-APRIL 1996 THROUGH FEBRUARY 1999
d052qon	1	-0.05253	0.013109	-4.01	<.0001	BINARY VARIABLE-APRIL 2005 ON
d074on	1	-0.09540	0.014161	-6.74	<.0001	BINARY VARIABLE-APRIL 2007 ON
d10on	1	-0.00917	0.020183	-0.45	0.6500	BINARY VARIABLE-2010 ON
d14on	1	0.026733	0.013477	1.98	0.0484	BINARY VARIABLE-2014 ON

Durbin-Watson	2.006185
Number of Observations	277
First-Order Autocorrelation	-0.0034

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

time		Residual Values Sum
1996.000000	*	-0.012497
1996.0833333	**	-0.022333
1996.1666667	*****	-0.062654
1996.2500000	*****	-0.045295
1996.3333333	***	0.025145
1996.4166667	*****	-0.073520
1996.5000000	**	-0.016467
1996.5833333	*	0.013229
1996.6666667	*****	-0.062690
1996.7500000	*****	0.068922
1996.8333333	*****	-0.064436
1996.9166667	*****	-0.076359
1997.0000000	*	0.006839
1997.0833333	***	-0.025631
1997.1666667	***	-0.033407
1997.2500000	****	0.037661
1997.3333333	**	-0.016717
1997.4166667	***	-0.029362
1997.5000000		-0.000699
1997.5833333	****	-0.041033
1997.6666667	*	-0.010874
1997.7500000	*****	0.060679
1997.8333333	*****	-0.083923
1997.9166667	*****	0.150405
1998.0000000		0.000000
1998.0833333	*****	-0.246264
1998.1666667	*****	0.064613
1998.2500000	*****	0.053505
1998.3333333	****	0.044037
1998.4166667	***	0.033197
1998.5000000	*****	-0.046275
1998.5833333	*	-0.012790
1998.6666667	****	0.039387
1998.7500000	*	0.011416
1998.8333333	****	0.043961
1998.9166667	***	0.030985
1999.0000000	*	0.007063
1999.0833333	***	0.025837
1999.1666667	**	0.015467
1999.2500000	*	-0.006203
1999.3333333	*****	-0.063228
1999.4166667	****	-0.036814
1999.5000000	**	-0.016995
1999.5833333	*	-0.006338
1999.6666667		-0.001119
1999.7500000	*	-0.012623
1999.8333333		0.001850
1999.9166667	**	0.017715

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

2000.000000		**	0.019449
2000.0833333		**	0.020746
2000.1666667		*	-0.005599
2000.2500000			-0.004637
2000.3333333		***	0.026588
2000.4166667		**	0.016185
2000.5000000		***	-0.034244
2000.5833333		*	-0.008200
2000.6666667		**	0.016425
2000.7500000		***	0.025263
2000.8333333		*****	0.047199
2000.9166667		****	0.042091
2001.0000000		***	0.025494
2001.0833333		*****	0.047259
2001.1666667		*	0.010995
2001.2500000		**	0.024253
2001.3333333		****	0.036638
2001.4166667		*	0.005253
2001.5000000		*	0.011491
2001.5833333		**	0.016266
2001.6666667		*	0.006771
2001.7500000		*****	-0.090706
2001.8333333		*****	0.060813
2001.9166667		****	-0.042511
2002.0000000		***	-0.034502
2002.0833333		*****	0.045854
2002.1666667		**	0.017299
2002.2500000		***	0.030635
2002.3333333		**	-0.021606
2002.4166667			-0.001742
2002.5000000		*	0.008081
2002.5833333		*	-0.014572
2002.6666667		***	0.030139
2002.7500000			-0.001540
2002.8333333		*	0.014200
2002.9166667			-0.002259
2003.0000000		*	0.012882
2003.0833333		*****	0.046615
2003.1666667			0.002350
2003.2500000			-0.001255
2003.3333333			-0.001507
2003.4166667		***	-0.027724
2003.5000000		***	-0.033931
2003.5833333		**	-0.019696
2003.6666667		***	-0.034370
2003.7500000		*	-0.012727
2003.8333333		**	0.024136
2003.9166667		***	0.030998
2004.0000000			-0.003669
2004.0833333		****	0.035980
2004.1666667		***	0.025134

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

2004.2500000	|	|	*	|	0.013875
2004.3333333	|	|	**	|	0.016840
2004.4166667	|	|	**	|	-0.021728
2004.5000000	|	|	*	|	-0.005912
2004.5833333	|	|	*****	|	-0.047653
2004.6666667	|	|	*	|	0.006945
2004.7500000	|	|		|	-0.003742
2004.8333333	|	|	*	|	-0.006903
2004.9166667	|	|	**	|	-0.015081
2005.0000000	|	|	**	|	0.023962
2005.0833333	|	|	*	|	0.008779
2005.1666667	|	|	**	|	0.018764
2005.2500000	|	|	***	|	0.030699
2005.3333333	|	|	***	|	0.028502
2005.4166667	|	|	*****	|	0.047053
2005.5000000	|	|	**	|	0.023936
2005.5833333	|	|	****	|	0.044536
2005.6666667	|	|	*****	|	0.078176
2005.7500000	|	|	*****	|	0.056437
2005.8333333	|	|	****	|	0.039091
2005.9166667	|	|	****	|	0.035868
2006.0000000	|	|	***	|	0.031512
2006.0833333	|	|	***	|	0.025859
2006.1666667	|	|		|	-0.001982
2006.2500000	|	|	***	|	-0.028049
2006.3333333	|	|	***	|	0.034409
2006.4166667	|	|	**	|	0.024824
2006.5000000	|	|	*	|	0.009328
2006.5833333	|	|	*	|	-0.007319
2006.6666667	|	|	*	|	-0.012296
2006.7500000	|	|	*****	|	-0.048815
2006.8333333	|	|	***	|	-0.034677
2006.9166667	|	|	****	|	-0.038642
2007.0000000	|	|	*****	|	-0.049868
2007.0833333	|	|	**	|	-0.024906
2007.1666667	|	|	****	|	-0.042471
2007.2500000	|	|	*****	|	-0.061092
2007.3333333	|	|		|	-0.003604
2007.4166667	|	|	**	|	-0.017131
2007.5000000	|	|	*****	|	-0.054047
2007.5833333	|	|	****	|	-0.043767
2007.6666667	|	|	****	|	-0.041563
2007.7500000	|	|	*	|	0.008598
2007.8333333	|	|	****	|	0.037867
2007.9166667	|	|	***	|	-0.025801
2008.0000000	|	|	**	|	0.020612
2008.0833333	|	|	**	|	0.020376
2008.1666667	|	|	*	|	0.014371
2008.2500000	|	|	*	|	-0.012130
2008.3333333	|	|	**	|	-0.021035
2008.4166667	|	|		|	-0.003073

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

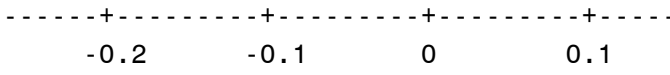
2008.5000000			-0.002011
2008.5833333		*	0.012133
2008.6666667			-0.002141
2008.7500000		**	0.020094
2008.8333333		****	0.044880
2008.9166667		**	-0.021078
2009.0000000	*****		-0.055153
2009.0833333	***		-0.025568
2009.1666667	*****		-0.077200
2009.2500000		**	0.015663
2009.3333333	*****		-0.047206
2009.4166667	*****		-0.054483
2009.5000000	**		-0.021949
2009.5833333		***	0.028158
2009.6666667		****	0.044760
2009.7500000		***	0.032679
2009.8333333			0.001679
2009.9166667		*****	0.066958
2010.0000000		****	0.041239
2010.0833333		*****	0.060670
2010.1666667		****	0.039290
2010.2500000		**	0.022706
2010.3333333		*	-0.009035
2010.4166667		*****	0.061157
2010.5000000		****	0.042174
2010.5833333		*****	0.052289
2010.6666667		**	-0.019842
2010.7500000		*	-0.007648
2010.8333333	*****		-0.180648
2010.9166667		*****	0.059946
2011.0000000	****		-0.038148
2011.0833333	*****		-0.132932
2011.1666667		*****	0.127850
2011.2500000	*****		-0.066079
2011.3333333		**	0.019670
2011.4166667		**	-0.018117
2011.5000000		**	-0.017339
2011.5833333			0.002711
2011.6666667	*****		-0.079822
2011.7500000	***		-0.028067
2011.8333333	**		-0.015164
2011.9166667	*****		-0.073125
2012.0000000			0.000694
2012.0833333		***	0.034794
2012.1666667			0.000873
2012.2500000		**	0.017930
2012.3333333	***		-0.027070
2012.4166667		****	0.040565
2012.5000000			0.003105
2012.5833333		****	0.037433
2012.6666667			-0.004321

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

2012.7500000	*****	-0.103559
2012.8333333	*	0.008796
2012.9166667	****	-0.042313
2013.0000000	*****	-0.055693
2013.0833333	**	0.017095
2013.1666667		0.002383
2013.2500000	***	0.027512
2013.3333333	***	0.030904
2013.4166667	**	0.024263
2013.5000000	*****	0.045682
2013.5833333		0.000256
2013.6666667	****	0.035890
2013.7500000	****	0.043356
2013.8333333	*****	0.045559
2013.9166667	***	-0.027867
2014.0000000	***	0.026747
2014.0833333	**	-0.016652
2014.1666667		-0.002548
2014.2500000	*	-0.010073
2014.3333333		-0.001627
2014.4166667	**	-0.017716
2014.5000000	***	0.028639
2014.5833333	****	-0.040674
2014.6666667	*	0.010159
2014.7500000	****	-0.041158
2014.8333333	*	0.012460
2014.9166667	***	-0.030635
2015.0000000		-0.003722
2015.0833333	*****	0.098789
2015.1666667	*****	-0.136170
2015.2500000	*	-0.005877
2015.3333333	*	-0.009324
2015.4166667	*	0.008319
2015.5000000	***	0.029465
2015.5833333	**	0.019028
2015.6666667	*	-0.006964
2015.7500000	***	0.033596
2015.8333333	*	0.013877
2015.9166667	*	0.010934
2016.0000000	***	0.031129
2016.0833333	*	-0.005189
2016.1666667	*****	0.074515
2016.2500000	**	0.022519
2016.3333333	*	-0.007536
2016.4166667	**	0.021097
2016.5000000	*	0.009698
2016.5833333	****	0.044515
2016.6666667	***	0.028036
2016.7500000		0.001637
2016.8333333	*	-0.009048
2016.9166667	**	-0.015510

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

2017.0000000	|	|	*	|	0.011059
2017.0833333	|	|	|	|	0.003806
2017.1666667	|	|	***	|	-0.030946
2017.2500000	|	|	*****	|	-0.051097
2017.3333333	|	|	**	|	-0.015697
2017.4166667	|	|	|	**	0.020958
2017.5000000	|	|	|	***	0.030388
2017.5833333	|	|	**	|	-0.017682
2017.6666667	|	|	***	|	-0.026027
2017.7500000	|	|	|	|	0.004106
2017.8333333	|	|	|	*	0.006752
2017.9166667	|	|	|	*	0.012556
2018.0000000	|	|	|	*	0.006105
2018.0833333	|	|	|	*	0.007017
2018.1666667	|	|	**	|	-0.020926
2018.2500000	|	|	*	|	-0.005172
2018.3333333	|	|	**	|	-0.017541
2018.4166667	|	|	|	|	-0.001460
2018.5000000	|	|	|	*	0.007881
2018.5833333	|	|	*	|	-0.010831
2018.6666667	|	|	|	*	0.005343
2018.7500000	|	|	**	|	-0.016196
2018.8333333	|	|	*	|	-0.008323
2018.9166667	|	|	*****	|	-0.047273
2019.0000000	|	|	*	|	-0.011533



Residual Values

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

year	ENERGY SALES	GROWTH RATE	BASE ENERGY	ADDITIONS
1996	998.7703	.	998.77	0.0000
1997	1011.697	1.3	1011.70	0.0000
1998	1016.686	0.5	1016.69	0.0000
1999	1066.433	4.9	1066.43	0.0000
2000	1094.604	2.6	1094.60	0.0000
2001	1044.806	-4.5	1044.81	0.0000
2002	1073.039	2.7	1073.04	0.0000
2003	1060.194	-1.2	1060.19	0.0000
2004	1076.753	1.6	1076.75	0.0000
2005	1071.287	-0.5	1071.29	0.0000
2006	1025.613	-4.3	1025.61	0.0000
2007	1003.461	-2.2	1003.46	0.0000
2008	919.2844	-8.4	919.28	0.0000
2009	789.8605	-14.1	789.86	0.0000
2010	853.1934	8.0	853.19	0.0000
2011	796.8127	-6.6	796.81	0.0000
2012	800.0013	0.4	800.00	0.0000
2013	815.2692	1.9	815.27	0.0000
2014	837.7386	2.8	837.74	0.0000
2015	843.4511	0.7	843.45	0.0000
2016	828.7422	-1.7	828.74	0.0000
2017	812.331	-2.0	812.33	0.0000
2018	816.7938	0.5	816.79	0.0000
2019	835.0382	2.2	822.39	12.6500
2020	827.4292	-0.9	809.95	17.4765
2021	830.5525	0.4	802.05	28.5060
2022	826.971	-0.4	798.46	28.5060
2023	824.0813	-0.3	795.58	28.5060
2024	827.769	0.4	799.26	28.5060
2025	829.803	0.2	801.30	28.5060
2026	829.8495	0.0	801.34	28.5060
2027	830.6033	0.1	802.10	28.5060
2028	832.877	0.3	804.37	28.5060
2029	835.0148	0.3	806.51	28.5060
2030	836.5242	0.2	808.02	28.5060
2031	838.3232	0.2	809.82	28.5060
2032	839.9594	0.2	811.45	28.5060
2033	841.5719	0.2	813.07	28.5060
2034	842.8001	0.1	814.29	28.5060
2035	843.9211	0.1	815.42	28.5060
2036	844.7489	0.1	816.24	28.5060
2037	845.2037	0.1	816.70	28.5060
2038	845.4647	0.0	816.96	28.5060
2039	845.9282	0.1	817.42	28.5060
2040	847.2445	0.2	818.74	28.5060
2041	848.129	0.1	819.62	28.5060
2042	848.2523	0.0	819.75	28.5060

INDIANA MICHIGAN POWER COMPANY
MICHIGAN SERVICE AREA
MANUFACTURING ENERGY SALES
MODEL RESIDUALS

year	ENERGY SALES	GROWTH RATE	BASE ENERGY	ADDITIONS
2043	847.3459	-0.1	818.840	28.506
2044	846.0584	-0.2	817.552	28.506
2045	844.4984	-0.2	815.992	28.506
2046	842.4334	-0.2	813.927	28.506
2047	839.7822	-0.3	811.276	28.506
2048	836.6339	-0.4	808.128	28.506
2049	833.175	-0.4	804.669	28.506
2050	829.4955	-0.4	800.989	28.506
2051	825.814	-0.4	797.308	28.506
2052	822.252	-0.4	793.746	28.506
2053	818.766	-0.4	790.260	28.506
2054	815.3182	-0.4	786.812	28.506

LONG-TERM OTHER RETAIL ENERGY

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2019.00
MONTH	MONTH	6.5000000
eu_imi	ENERGY SALES, OTHER ULTIMATE	5.6857528

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
1	1984	1	7.214
2	1984	2	6.142
3	1984	3	6.259
4	1984	4	5.134
5	1984	5	4.815
6	1984	6	4.702
7	1984	7	4.779
8	1984	8	5.305
9	1984	9	5.498
10	1984	10	6.505
11	1984	11	6.779
12	1984	12	7.510
13	1985	1	7.320
14	1985	2	5.965
15	1985	3	5.998
16	1985	4	5.236
17	1985	5	4.825
18	1985	6	4.480
19	1985	7	4.974
20	1985	8	5.191
21	1985	9	5.648
22	1985	10	6.497
23	1985	11	6.964
24	1985	12	7.577
25	1986	1	7.299
26	1986	2	6.217
27	1986	3	6.149
28	1986	4	5.354
29	1986	5	4.927
30	1986	6	4.703
31	1986	7	5.094
32	1986	8	5.175
33	1986	9	5.789
34	1986	10	6.544
35	1986	11	6.842
36	1986	12	7.379
37	1987	1	7.382
38	1987	2	6.125
39	1987	3	6.221
40	1987	4	5.314
41	1987	5	5.169
42	1987	6	4.716
43	1987	7	5.140
44	1987	8	5.266
45	1987	9	5.841
46	1987	10	6.636
47	1987	11	6.778
48	1987	12	7.484
49	1988	1	7.350
50	1988	2	6.175

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
51	1988	3	6.152
52	1988	4	5.307
53	1988	5	4.875
54	1988	6	4.748
55	1988	7	5.115
56	1988	8	5.533
57	1988	9	5.788
58	1988	10	6.739
59	1988	11	6.819
60	1988	12	7.583
61	1989	1	7.167
62	1989	2	6.391
63	1989	3	6.133
64	1989	4	5.446
65	1989	5	5.148
66	1989	6	4.848
67	1989	7	5.239
68	1989	8	5.412
69	1989	9	5.765
70	1989	10	6.657
71	1989	11	6.959
72	1989	12	7.512
73	1990	1	6.931
74	1990	2	6.085
75	1990	3	5.932
76	1990	4	5.270
77	1990	5	4.885
78	1990	6	4.840
79	1990	7	4.997
80	1990	8	5.215
81	1990	9	5.406
82	1990	10	6.493
83	1990	11	6.628
84	1990	12	7.228
85	1991	1	7.173
86	1991	2	5.905
87	1991	3	5.916
88	1991	4	5.250
89	1991	5	5.205
90	1991	6	4.412
91	1991	7	5.014
92	1991	8	5.335
93	1991	9	5.533
94	1991	10	6.461
95	1991	11	6.689
96	1991	12	7.168
97	1992	1	7.212
98	1992	2	6.064
99	1992	3	6.056
100	1992	4	5.203

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
101	1992	5	4.98800
102	1992	6	4.67700
103	1992	7	4.97900
104	1992	8	5.27200
105	1992	9	5.56200
106	1992	10	6.41000
107	1992	11	6.67600
108	1992	12	7.38300
109	1993	1	7.22900
110	1993	2	6.19600
111	1993	3	5.96400
112	1993	4	5.26200
113	1993	5	4.96800
114	1993	6	4.92000
115	1993	7	5.06900
116	1993	8	5.34300
117	1993	9	5.53800
118	1993	10	6.54400
119	1993	11	6.74900
120	1993	12	7.39600
121	1994	1	7.28900
122	1994	2	5.63900
123	1994	3	5.95800
124	1994	4	5.34300
125	1994	5	5.00300
126	1994	6	4.99600
127	1994	7	4.83400
128	1994	8	5.37000
129	1994	9	5.64700
130	1994	10	6.32900
131	1994	11	6.70500
132	1994	12	7.21000
133	1995	1	7.26200
134	1995	2	6.06900
135	1995	3	6.06100
136	1995	4	5.37800
137	1995	5	4.99400
138	1995	6	5.12300
139	1995	7	5.31700
140	1995	8	4.38600
141	1995	9	5.57200
142	1995	10	6.62100
143	1995	11	6.85700
144	1995	12	7.14700
145	1996	1	7.34704
146	1996	2	6.25522
147	1996	3	6.00128
148	1996	4	5.40568
149	1996	5	4.95679
150	1996	6	4.76238

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
151	1996	7	5.05251
152	1996	8	5.31069
153	1996	9	5.63576
154	1996	10	6.35725
155	1996	11	6.64791
156	1996	12	7.30531
157	1997	1	7.36676
158	1997	2	6.26851
159	1997	3	6.23928
160	1997	4	5.50390
161	1997	5	5.00220
162	1997	6	4.78249
163	1997	7	5.15507
164	1997	8	5.36428
165	1997	9	5.62244
166	1997	10	6.32648
167	1997	11	6.77327
168	1997	12	7.39943
169	1998	1	7.59205
170	1998	2	7.00212
171	1998	3	6.48029
172	1998	4	4.71664
173	1998	5	5.31360
174	1998	6	5.02076
175	1998	7	4.97456
176	1998	8	5.34663
177	1998	9	5.83605
178	1998	10	6.48823
179	1998	11	6.82281
180	1998	12	7.56013
181	1999	1	7.47794
182	1999	2	6.30730
183	1999	3	6.18800
184	1999	4	5.54175
185	1999	5	4.99347
186	1999	6	4.75244
187	1999	7	4.98519
188	1999	8	5.36647
189	1999	9	5.77266
190	1999	10	6.48068
191	1999	11	6.73442
192	1999	12	7.42668
193	2000	1	7.53127
194	2000	2	6.29559
195	2000	3	6.22689
196	2000	4	5.39518
197	2000	5	5.03303
198	2000	6	4.72834
199	2000	7	4.85959
200	2000	8	5.28090

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
201	2000	9	5.77466
202	2000	10	6.46666
203	2000	11	6.70160
204	2000	12	7.47538
205	2001	1	7.43633
206	2001	2	6.28535
207	2001	3	6.25123
208	2001	4	5.37829
209	2001	5	5.09162
210	2001	6	4.78761
211	2001	7	5.01011
212	2001	8	5.36509
213	2001	9	5.83132
214	2001	10	6.49943
215	2001	11	6.74895
216	2001	12	7.41472
217	2002	1	7.48962
218	2002	2	6.33649
219	2002	3	6.25963
220	2002	4	5.57336
221	2002	5	5.15404
222	2002	6	4.79931
223	2002	7	4.98710
224	2002	8	5.36729
225	2002	9	5.85476
226	2002	10	6.48510
227	2002	11	6.81571
228	2002	12	7.56402
229	2003	1	7.47969
230	2003	2	6.35803
231	2003	3	6.23659
232	2003	4	5.49933
233	2003	5	5.08656
234	2003	6	4.71863
235	2003	7	4.93025
236	2003	8	5.31170
237	2003	9	5.87781
238	2003	10	6.43092
239	2003	11	6.76855
240	2003	12	7.54633
241	2004	1	7.58558
242	2004	2	6.38438
243	2004	3	6.20264
244	2004	4	5.53067
245	2004	5	5.10162
246	2004	6	4.83566
247	2004	7	4.91626
248	2004	8	5.31175
249	2004	9	5.86469
250	2004	10	6.44770

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
251	2004	11	6.76639
252	2004	12	7.52947
253	2005	1	7.48968
254	2005	2	6.29867
255	2005	3	6.21864
256	2005	4	5.47646
257	2005	5	4.97646
258	2005	6	4.69812
259	2005	7	4.91648
260	2005	8	5.24891
261	2005	9	5.73007
262	2005	10	6.34166
263	2005	11	6.62729
264	2005	12	7.29901
265	2006	1	7.38432
266	2006	2	6.15589
267	2006	3	6.09855
268	2006	4	5.33073
269	2006	5	4.86163
270	2006	6	4.53880
271	2006	7	4.75137
272	2006	8	5.18328
273	2006	9	5.67586
274	2006	10	5.82394
275	2006	11	6.66566
276	2006	12	7.37693
277	2007	1	7.31195
278	2007	2	6.24025
279	2007	3	4.76384
280	2007	4	5.28198
281	2007	5	4.34340
282	2007	6	6.04794
283	2007	7	4.55352
284	2007	8	4.97355
285	2007	9	5.36737
286	2007	10	5.94960
287	2007	11	6.23954
288	2007	12	6.88397
289	2008	1	6.88442
290	2008	2	5.72350
291	2008	3	5.65156
292	2008	4	4.87965
293	2008	5	4.41166
294	2008	6	4.10441
295	2008	7	4.23243
296	2008	8	4.65133
297	2008	9	5.11402
298	2008	10	5.74543
299	2008	11	3.64506
300	2008	12	9.28904

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
301	2009	1	6.80893
302	2009	2	5.63369
303	2009	3	5.54991
304	2009	4	4.80795
305	2009	5	4.33302
306	2009	6	4.01344
307	2009	7	3.85598
308	2009	8	5.03807
309	2009	9	5.13322
310	2009	10	3.44222
311	2009	11	8.57216
312	2009	12	6.74136
313	2010	1	3.97631
314	2010	2	5.95516
315	2010	3	5.53663
316	2010	4	7.01381
317	2010	5	4.26412
318	2010	6	3.96282
319	2010	7	4.18531
320	2010	8	4.59725
321	2010	9	5.01677
322	2010	10	3.27973
323	2010	11	8.41990
324	2010	12	3.86508
325	2011	1	6.62465
326	2011	2	8.17790
327	2011	3	5.42938
328	2011	4	4.65316
329	2011	5	4.23742
330	2011	6	3.92799
331	2011	7	4.11466
332	2011	8	4.54683
333	2011	9	2.96236
334	2011	10	7.62891
335	2011	11	5.89339
336	2011	12	3.78052
337	2012	1	9.24639
338	2012	2	5.45182
339	2012	3	5.05418
340	2012	4	4.98246
341	2012	5	4.19265
342	2012	6	3.85823
343	2012	7	4.07694
344	2012	8	4.49928
345	2012	9	4.90830
346	2012	10	5.57596
347	2012	11	5.92591
348	2012	12	6.48206
349	2013	1	6.43783
350	2013	2	5.43551

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
351	2013	3	5.31009
352	2013	4	4.61608
353	2013	5	4.14042
354	2013	6	3.81221
355	2013	7	4.03780
356	2013	8	4.45668
357	2013	9	4.91675
358	2013	10	5.60582
359	2013	11	5.90553
360	2013	12	6.46215
361	2014	1	6.45451
362	2014	2	5.38522
363	2014	3	5.34517
364	2014	4	4.59135
365	2014	5	4.15344
366	2014	6	3.81238
367	2014	7	3.99950
368	2014	8	4.41689
369	2014	9	4.88027
370	2014	10	5.63450
371	2014	11	5.89465
372	2014	12	6.35281
373	2015	1	6.39506
374	2015	2	5.36820
375	2015	3	5.29550
376	2015	4	4.58447
377	2015	5	4.09286
378	2015	6	3.78621
379	2015	7	3.97503
380	2015	8	4.39142
381	2015	9	4.84361
382	2015	10	5.49109
383	2015	11	5.82333
384	2015	12	6.42043
385	2016	1	3.66515
386	2016	2	8.02291
387	2016	3	5.25741
388	2016	4	4.53009
389	2016	5	4.07440
390	2016	6	3.74277
391	2016	7	3.94803
392	2016	8	4.39985
393	2016	9	4.83556
394	2016	10	5.50445
395	2016	11	5.81644
396	2016	12	6.42962
397	2017	1	6.33105
398	2017	2	5.32488
399	2017	3	5.25288
400	2017	4	4.61182

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Endogenous Variables

Obs	YEAR	MONTH	eu_imi
401	2017	5	3.94838
402	2017	6	3.71130
403	2017	7	3.93881
404	2017	8	4.38332
405	2017	9	4.83007
406	2017	10	5.46695
407	2017	11	7.79034
408	2017	12	3.49609
409	2018	1	7.20174
410	2018	2	5.32741
411	2018	3	4.69830
412	2018	4	5.02161
413	2018	5	4.02207
414	2018	6	3.76957
415	2018	7	3.83162
416	2018	8	4.30755
417	2018	9	4.74568
418	2018	10	5.38058
419	2018	11	5.68860
420	2018	12	6.23658
421	2019	1	6.17877
422	2019	2	.
423	2019	3	.
424	2019	4	.
425	2019	5	.
426	2019	6	.
427	2019	7	.
428	2019	8	.
429	2019	9	.
430	2019	10	.
431	2019	11	.
432	2019	12	.
433	2020	1	.
434	2020	2	.
435	2020	3	.
436	2020	4	.
437	2020	5	.
438	2020	6	.
439	2020	7	.
440	2020	8	.
441	2020	9	.
442	2020	10	.
443	2020	11	.
444	2020	12	.
445	2021	1	.
446	2021	2	.
447	2021	3	.
448	2021	4	.
449	2021	5	.
450	2021	6	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
451	2021	7	.
452	2021	8	.
453	2021	9	.
454	2021	10	.
455	2021	11	.
456	2021	12	.
457	2022	1	.
458	2022	2	.
459	2022	3	.
460	2022	4	.
461	2022	5	.
462	2022	6	.
463	2022	7	.
464	2022	8	.
465	2022	9	.
466	2022	10	.
467	2022	11	.
468	2022	12	.
469	2023	1	.
470	2023	2	.
471	2023	3	.
472	2023	4	.
473	2023	5	.
474	2023	6	.
475	2023	7	.
476	2023	8	.
477	2023	9	.
478	2023	10	.
479	2023	11	.
480	2023	12	.
481	2024	1	.
482	2024	2	.
483	2024	3	.
484	2024	4	.
485	2024	5	.
486	2024	6	.
487	2024	7	.
488	2024	8	.
489	2024	9	.
490	2024	10	.
491	2024	11	.
492	2024	12	.
493	2025	1	.
494	2025	2	.
495	2025	3	.
496	2025	4	.
497	2025	5	.
498	2025	6	.
499	2025	7	.
500	2025	8	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
501	2025	9	.
502	2025	10	.
503	2025	11	.
504	2025	12	.
505	2026	1	.
506	2026	2	.
507	2026	3	.
508	2026	4	.
509	2026	5	.
510	2026	6	.
511	2026	7	.
512	2026	8	.
513	2026	9	.
514	2026	10	.
515	2026	11	.
516	2026	12	.
517	2027	1	.
518	2027	2	.
519	2027	3	.
520	2027	4	.
521	2027	5	.
522	2027	6	.
523	2027	7	.
524	2027	8	.
525	2027	9	.
526	2027	10	.
527	2027	11	.
528	2027	12	.
529	2028	1	.
530	2028	2	.
531	2028	3	.
532	2028	4	.
533	2028	5	.
534	2028	6	.
535	2028	7	.
536	2028	8	.
537	2028	9	.
538	2028	10	.
539	2028	11	.
540	2028	12	.
541	2029	1	.
542	2029	2	.
543	2029	3	.
544	2029	4	.
545	2029	5	.
546	2029	6	.
547	2029	7	.
548	2029	8	.
549	2029	9	.
550	2029	10	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
551	2029	11	.
552	2029	12	.
553	2030	1	.
554	2030	2	.
555	2030	3	.
556	2030	4	.
557	2030	5	.
558	2030	6	.
559	2030	7	.
560	2030	8	.
561	2030	9	.
562	2030	10	.
563	2030	11	.
564	2030	12	.
565	2031	1	.
566	2031	2	.
567	2031	3	.
568	2031	4	.
569	2031	5	.
570	2031	6	.
571	2031	7	.
572	2031	8	.
573	2031	9	.
574	2031	10	.
575	2031	11	.
576	2031	12	.
577	2032	1	.
578	2032	2	.
579	2032	3	.
580	2032	4	.
581	2032	5	.
582	2032	6	.
583	2032	7	.
584	2032	8	.
585	2032	9	.
586	2032	10	.
587	2032	11	.
588	2032	12	.
589	2033	1	.
590	2033	2	.
591	2033	3	.
592	2033	4	.
593	2033	5	.
594	2033	6	.
595	2033	7	.
596	2033	8	.
597	2033	9	.
598	2033	10	.
599	2033	11	.
600	2033	12	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
601	2034	1	.
602	2034	2	.
603	2034	3	.
604	2034	4	.
605	2034	5	.
606	2034	6	.
607	2034	7	.
608	2034	8	.
609	2034	9	.
610	2034	10	.
611	2034	11	.
612	2034	12	.
613	2035	1	.
614	2035	2	.
615	2035	3	.
616	2035	4	.
617	2035	5	.
618	2035	6	.
619	2035	7	.
620	2035	8	.
621	2035	9	.
622	2035	10	.
623	2035	11	.
624	2035	12	.
625	2036	1	.
626	2036	2	.
627	2036	3	.
628	2036	4	.
629	2036	5	.
630	2036	6	.
631	2036	7	.
632	2036	8	.
633	2036	9	.
634	2036	10	.
635	2036	11	.
636	2036	12	.
637	2037	1	.
638	2037	2	.
639	2037	3	.
640	2037	4	.
641	2037	5	.
642	2037	6	.
643	2037	7	.
644	2037	8	.
645	2037	9	.
646	2037	10	.
647	2037	11	.
648	2037	12	.
649	2038	1	.
650	2038	2	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
651	2038	3	.
652	2038	4	.
653	2038	5	.
654	2038	6	.
655	2038	7	.
656	2038	8	.
657	2038	9	.
658	2038	10	.
659	2038	11	.
660	2038	12	.
661	2039	1	.
662	2039	2	.
663	2039	3	.
664	2039	4	.
665	2039	5	.
666	2039	6	.
667	2039	7	.
668	2039	8	.
669	2039	9	.
670	2039	10	.
671	2039	11	.
672	2039	12	.
673	2040	1	.
674	2040	2	.
675	2040	3	.
676	2040	4	.
677	2040	5	.
678	2040	6	.
679	2040	7	.
680	2040	8	.
681	2040	9	.
682	2040	10	.
683	2040	11	.
684	2040	12	.
685	2041	1	.
686	2041	2	.
687	2041	3	.
688	2041	4	.
689	2041	5	.
690	2041	6	.
691	2041	7	.
692	2041	8	.
693	2041	9	.
694	2041	10	.
695	2041	11	.
696	2041	12	.
697	2042	1	.
698	2042	2	.
699	2042	3	.
700	2042	4	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
701	2042	5	.
702	2042	6	.
703	2042	7	.
704	2042	8	.
705	2042	9	.
706	2042	10	.
707	2042	11	.
708	2042	12	.
709	2043	1	.
710	2043	2	.
711	2043	3	.
712	2043	4	.
713	2043	5	.
714	2043	6	.
715	2043	7	.
716	2043	8	.
717	2043	9	.
718	2043	10	.
719	2043	11	.
720	2043	12	.
721	2044	1	.
722	2044	2	.
723	2044	3	.
724	2044	4	.
725	2044	5	.
726	2044	6	.
727	2044	7	.
728	2044	8	.
729	2044	9	.
730	2044	10	.
731	2044	11	.
732	2044	12	.
733	2045	1	.
734	2045	2	.
735	2045	3	.
736	2045	4	.
737	2045	5	.
738	2045	6	.
739	2045	7	.
740	2045	8	.
741	2045	9	.
742	2045	10	.
743	2045	11	.
744	2045	12	.
745	2046	1	.
746	2046	2	.
747	2046	3	.
748	2046	4	.
749	2046	5	.
750	2046	6	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
751	2046	7	.
752	2046	8	.
753	2046	9	.
754	2046	10	.
755	2046	11	.
756	2046	12	.
757	2047	1	.
758	2047	2	.
759	2047	3	.
760	2047	4	.
761	2047	5	.
762	2047	6	.
763	2047	7	.
764	2047	8	.
765	2047	9	.
766	2047	10	.
767	2047	11	.
768	2047	12	.
769	2048	1	.
770	2048	2	.
771	2048	3	.
772	2048	4	.
773	2048	5	.
774	2048	6	.
775	2048	7	.
776	2048	8	.
777	2048	9	.
778	2048	10	.
779	2048	11	.
780	2048	12	.
781	2049	1	.
782	2049	2	.
783	2049	3	.
784	2049	4	.
785	2049	5	.
786	2049	6	.
787	2049	7	.
788	2049	8	.
789	2049	9	.
790	2049	10	.
791	2049	11	.
792	2049	12	.
793	2050	1	.
794	2050	2	.
795	2050	3	.
796	2050	4	.
797	2050	5	.
798	2050	6	.
799	2050	7	.
800	2050	8	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
801	2050	9	.
802	2050	10	.
803	2050	11	.
804	2050	12	.
805	2051	1	.
806	2051	2	.
807	2051	3	.
808	2051	4	.
809	2051	5	.
810	2051	6	.
811	2051	7	.
812	2051	8	.
813	2051	9	.
814	2051	10	.
815	2051	11	.
816	2051	12	.
817	2052	1	.
818	2052	2	.
819	2052	3	.
820	2052	4	.
821	2052	5	.
822	2052	6	.
823	2052	7	.
824	2052	8	.
825	2052	9	.
826	2052	10	.
827	2052	11	.
828	2052	12	.
829	2053	1	.
830	2053	2	.
831	2053	3	.
832	2053	4	.
833	2053	5	.
834	2053	6	.
835	2053	7	.
836	2053	8	.
837	2053	9	.
838	2053	10	.
839	2053	11	.
840	2053	12	.
841	2054	1	.
842	2054	2	.
843	2054	3	.
844	2054	4	.
845	2054	5	.
846	2054	6	.
847	2054	7	.
848	2054	8	.
849	2054	9	.
850	2054	10	.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imi
851	2054	11	.
852	2054	12	.

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2019.00
MONTH	MONTH	6.5000000
D070N	BINARY VARIABLE-2007 ON	0.6760563
d052qon	BINARY VARIABLE-APRIL 2005 ON	0.7007042
d082qon	BINARY VARIABLE-APRIL 2008 ON	0.6584507
d092qon	BINARY VARIABLE-APRIL 2009 ON	0.6443662
d072	BINARY VARIABLE-APRIL THROUGH JUNE 2007	0.0011737
d101	BINARY VARIABLE-JANUARY THROUGH MARCH 2010	0.0011737
d102	BINARY VARIABLE-APRIL THROUGH JUNE 2010	0.0011737
LCOM	SERVICE AREA COMMERCIAL EMPLOYMENT	510.7196037
nov08	BINARY VARIABLE-NOVEMBER 2008	0.0011737
dec08	BINARY VARIABLE-DECEMBER 2008	0.0011737
oct10	BINARY VARIABLE-OCTOBER 2010	0.0011737
nov10	BINARY VARIABLE-NOVEMBER 2010	0.0011737
dec10	BINARY VARIABLE-DECEMBER 2010	0.0011737
feb11	BINARY VARIABLE-FEBRUARY 2011	0.0011737
d1	BINARY VARIABLE-JANUARY	0.0833333
d2	BINARY VARIABLE-FEBRUARY	0.0833333
d3	BINARY VARIABLE-MARCH	0.0833333
d4	BINARY VARIABLE-APRIL	0.0833333
d5	BINARY VARIABLE-MAY	0.0833333
d6	BINARY VARIABLE-JUNE	0.0833333
d7	BINARY VARIABLE-JULY	0.0833333
d8	BINARY VARIABLE-AUGUST	0.0833333
d9	BINARY VARIABLE-SEPTEMBER	0.0833333
d10	BINARY VARIABLE-OCTOBER	0.0833333
d11	BINARY VARIABLE-NOVEMBER	0.0833333
jan16	BINARY VARIABLE-JANUARY 2016	0.0011737
mayd13on	BINARY VARIABLE-2013 ON MAY ONLY	0.0492958
jund13on	BINARY VARIABLE-2013 ON JUNE ONLY	0.0492958
juld13on	BINARY VARIABLE-2013 ON JULY ONLY	0.0492958
feb16	BINARY VARIABLE-FEBRUARY 2016	0.0011737
nov17	BINARY VARIABLE-NOVEMBER 2017	0.0011737
dec17	BINARY VARIABLE-DECEMBER 2017	0.0011737

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Exogenous Variables

```

                d d d                m j j
                0 0 0                a u u
                M D 5 8 9              y n l
    O   Y   N   O   2 2 2 d d d   L   n d o n d f   j d d d f n d   P
    b   A   T   0   0 0 0 7 0 0   C   o e c o e e   a 1 1 1 e o e   R
    s   R   H   N   n n n 2 1 2   M   v c t v c b   d d n 3 3 3 b v c   I
    0 0 1 1 1 1 d d d d d d d d d 1 1 1 o o o 1 1 1   C
    8 8 0 0 0 1 1 2 3 4 5 6 7 8 9 0 1 6 n n n 6 7 7   E
    
```

Year	Month	Day	Hour	Minute	Second	Energy Sales (MWh)	Other Variables	Confidentiality
216	2001	12	0	0	0	470.562	0 0	CONFID.
217	2002	1	0	0	0	470.220	0 0 0 0 0 0 0 0 1 0	CONFID.
218	2002	2	0	0	0	469.934	0 0 0 0 0 0 0 0 1 0	CONFID.
219	2002	3	0	0	0	469.685	0 0 0 0 0 0 0 0 0 1 0	CONFID.
220	2002	4	0	0	0	469.457	0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
221	2002	5	0	0	0	469.248	0 0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
222	2002	6	0	0	0	469.033	0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
223	2002	7	0	0	0	468.823	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONDID.
224	2002	8	0	0	0	468.596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
225	2002	9	0	0	0	468.380	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
226	2002	10	0	0	0	468.172	0 1 0 0 0 0 0 0 0 0 0 0 0	CONFID.
227	2002	11	0	0	0	467.996	0 1 0 0 0 0 0 0 0 0 0	CONFID.
228	2002	12	0	0	0	467.845	0 0	CONFID.
229	2003	1	0	0	0	467.740	0 0 0 0 0 0 0 0 1 0	CONFID.
230	2003	2	0	0	0	467.690	0 0 0 0 0 0 0 0 0 1 0	CONFID.
231	2003	3	0	0	0	467.698	0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
232	2003	4	0	0	0	467.786	0 0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
233	2003	5	0	0	0	467.953	0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
234	2003	6	0	0	0	468.216	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
235	2003	7	0	0	0	468.587	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONDID.
236	2003	8	0	0	0	469.067	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
237	2003	9	0	0	0	469.626	0 1 0 0 0 0 0 0 0 0 0 0 0	CONFID.
238	2003	10	0	0	0	470.258	0 1 0 0 0 0 0 0 0 0 0	CONFID.
239	2003	11	0	0	0	470.946	0 1 0 0 0 0 0 0 0	CONFID.
240	2003	12	0	0	0	471.666	0 0	CONFID.
241	2004	1	0	0	0	472.420	0 0 0 0 0 0 0 0 1 0	CONFID.
242	2004	2	0	0	0	473.161	0 0 0 0 0 0 0 0 0 1 0	CONFID.
243	2004	3	0	0	0	473.897	0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
244	2004	4	0	0	0	474.614	0 0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
245	2004	5	0	0	0	475.300	0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
246	2004	6	0	0	0	475.924	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
247	2004	7	0	0	0	476.466	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONDID.
248	2004	8	0	0	0	476.956	0 1 0 0 0 0 0 0 0 0 0 0 0	CONFID.
249	2004	9	0	0	0	477.368	0 1 0 0 0 0 0 0 0 0 0	CONFID.
250	2004	10	0	0	0	477.730	0 1 0 0 0 0 0 0 0	CONFID.
251	2004	11	0	0	0	478.058	0 1 0 0 0 0 0	CONFID.
252	2004	12	0	0	0	478.368	0 0	CONFID.
253	2005	1	0	0	0	478.658	0 0 0 0 0 0 0 0 1 0	CONFID.
254	2005	2	0	0	0	478.944	0 0 0 0 0 0 0 0 0 1 0	CONFID.
255	2005	3	0	0	0	479.231	0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
256	2005	4	0	1	0	479.555	0 0 0 0 0 0 0 0 0 0 0 1 0	CONFID.
257	2005	5	0	1	0	479.922	0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.
258	2005	6	0	1	0	480.332	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONFID.

Table with columns for ID, Year, and various variables (M, D, N, etc.) including energy sales values and a 'CONFID.' status column.

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Exogenous Variables

										m j j																																		
										a u u																																		
										y n l																																		
d d d										j d d d f n d										P																								
0 0 0										a 1 1 1 e o e										R																								
M D 5 8 9										v c t v c b										I																								
Y	0	0	2	2	2	d	d	d	L	o	e	c	e	e	d	d	n	3	3	3	b	v	c	I																				
O	E	N	7	q	q	q	0	1	1	C	v	c	t	v	c	b	d	d	n	3	3	3	b	v	c	I																		
b	A	T	0	o	o	o	7	0	0	O	0	0	1	1	1	1	d	d	d	d	d	d	d	1	1	1	o	o	o	1	1	1	C											
s	R	H	N	n	n	n	2	1	2	M	8	8	0	0	0	1	1	2	3	4	5	6	7	8	9	0	1	6	n	n	n	6	7	7	E									
689	2041	5	1	1	1	1	0	0	0	588.956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.		
690	2041	6	1	1	1	1	0	0	0	589.301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.		
691	2041	7	1	1	1	1	0	0	0	589.645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONDID.		
692	2041	8	1	1	1	1	0	0	0	589.996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.		
693	2041	9	1	1	1	1	0	0	0	590.327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.		
694	2041	10	1	1	1	1	0	0	0	590.661	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.		
695	2041	11	1	1	1	1	0	0	0	590.993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.		
696	2041	12	1	1	1	1	0	0	0	591.319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.		
697	2042	1	1	1	1	1	0	0	0	591.652	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
698	2042	2	1	1	1	1	0	0	0	591.969	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
699	2042	3	1	1	1	1	0	0	0	592.279	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
700	2042	4	1	1	1	1	0	0	0	592.592	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
701	2042	5	1	1	1	1	0	0	0	592.912	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
702	2042	6	1	1	1	1	0	0	0	593.226	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
703	2042	7	1	1	1	1	0	0	0	593.533	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONDID.	
704	2042	8	1	1	1	1	0	0	0	593.855	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
705	2042	9	1	1	1	1	0	0	0	594.165	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
706	2042	10	1	1	1	1	0	0	0	594.472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
707	2042	11	1	1	1	1	0	0	0	594.780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
708	2042	12	1	1	1	1	0	0	0	595.087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
709	2043	1	1	1	1	1	0	0	0	595.392	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
710	2043	2	1	1	1	1	0	0	0	595.697	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
711	2043	3	1	1	1	1	0	0	0	595.993	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
712	2043	4	1	1	1	1	0	0	0	596.310	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
713	2043	5	1	1	1	1	0	0	0	596.615	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
714	2043	6	1	1	1	1	0	0	0	596.935	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.	
715	2043	7	1	1	1	1	0	0	0	597.251	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONDID.	
716	2043	8	1	1	1	1	0	0	0	597.565	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
717	2043	9	1	1	1	1	0	0	0	597.886	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
718	2043	10	1	1	1	1	0	0	0	598.208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
719	2043	11	1	1	1	1	0	0	0	598.529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
720	2043	12	1	1	1	1	0	0	0	598.856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
721	2044	1	1	1	1	1	0	0	0	599.183	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
722	2044	2	1	1	1	1	0	0	0	599.507	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
723	2044	3	1	1	1	1	0	0	0	599.826	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
724	2044	4	1	1	1	1	0	0	0	600.149	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
725	2044	5	1	1	1	1	0	0	0	600.475	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.	
726	2044	6	1	1	1	1	0	0	0	600.805	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONFID.	
727	2044	7	1	1	1	1	0	0	0	601.127	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONDID.	
728	2044	8	1	1	1	1	0	0	0	601.460	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.	
729	2044	9	1	1	1	1	0	0	0	601.786	0	0	0	0</																														

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model LEU
Dependent Variable LEU
Label ENERGY SALES, Other Ultimate, LOG

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	33	13.12749	0.397803	89.43	<.0001
Error	352	1.565768	0.004448		
Corrected Total	385	14.69326			

Root MSE 0.06669 R-Square 0.89344
Dependent Mean 1.71626 Adj R-Sq 0.88345
Coeff Var 3.88606

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	2.042884	0.125125	16.33	<.0001	Intercept
LCOM	1	0.000094	0.000117	0.80	0.4220	SERVICE AREA COMMERCIAL EMPLOYMENT
d1	1	0.030425	0.017117	1.78	0.0763	BINARY VARIABLE - JANUARY
d2	1	-0.15211	0.017254	-8.82	<.0001	BINARY VARIABLE - FEBRUARY
d3	1	-0.18088	0.016980	-10.65	<.0001	BINARY VARIABLE - MARCH
d4	1	-0.30105	0.017248	-17.45	<.0001	BINARY VARIABLE - APRIL
d5	1	-0.37709	0.017943	-21.02	<.0001	BINARY VARIABLE - MAY
d6	1	-0.41943	0.017962	-23.35	<.0001	BINARY VARIABLE - JUNE
d7	1	-0.38918	0.017985	-21.64	<.0001	BINARY VARIABLE - JULY
d8	1	-0.32658	0.016976	-19.24	<.0001	BINARY VARIABLE - AUGUST
d9	1	-0.26157	0.016987	-15.40	<.0001	BINARY VARIABLE - SEPTEMBER
d10	1	-0.12965	0.017106	-7.58	<.0001	BINARY VARIABLE - OCTOBER
d11	1	-0.06331	0.017382	-3.64	0.0003	BINARY VARIABLE - NOVEMBER

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Exogenous Variables
 Model Estimation

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
nov08	1	-0.51267	0.071172	-7.20	<.0001	BINARY VARIABLE-NOVEMBER 2008
dec08	1	0.358044	0.071125	5.03	<.0001	BINARY VARIABLE-DECEMBER 2008
oct10	1	-0.51806	0.068247	-7.59	<.0001	BINARY VARIABLE-OCTOBER 2010
nov10	1	0.359266	0.068247	5.26	<.0001	BINARY VARIABLE-NOVEMBER 2010
dec10	1	-0.48104	0.068139	-7.06	<.0001	BINARY VARIABLE-DECEMBER 2010
feb11	1	0.420461	0.068160	6.17	<.0001	BINARY VARIABLE-FEBRUARY 2011
d052qon	1	-0.02491	0.016467	-1.51	0.1312	BINARY VARIABLE-APRIL 2005 ON
D070N	1	-0.04951	0.023762	-2.08	0.0379	BINARY VARIABLE-2007 ON
d072	1	0.040164	0.070224	0.57	0.5677	BINARY VARIABLE-APRIL THROUGH JUNE 2007
d082qon	1	-0.05653	0.027807	-2.03	0.0428	BINARY VARIABLE-APRIL 2008 ON
d092qon	1	-0.02827	0.025343	-1.12	0.2655	BINARY VARIABLE-APRIL 2009 ON
d101	1	-0.48698	0.068621	-7.10	<.0001	BINARY VARIABLE-JANUARY THROUGH MARCH 2010
d102	1	0.410374	0.068823	5.96	<.0001	BINARY VARIABLE-APRIL THROUGH JUNE 2010
jan16	1	-0.56001	0.068328	-8.20	<.0001	BINARY VARIABLE-JANUARY 2016

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Exogenous Variables
 Model Estimation

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
PU36	1	-0.01091	0.013550	-0.81	0.4212	REAL OTHER RETAIL ELECTRIC PRICE, 36 MONTH MOVING AVERAGE
mayd13on	1	-0.04998	0.031292	-1.60	0.1111	BINARY VARIABLE-2013 ON MAY ONLY
jund13on	1	-0.08376	0.031370	-2.67	0.0079	BINARY VARIABLE-2013 ON JUNE ONLY
juld13on	1	-0.06682	0.031418	-2.13	0.0341	BINARY VARIABLE-2013 ON JULY ONLY
feb16	1	0.405924	0.068427	5.93	<.0001	BINARY VARIABLE-FEBRUARY 2016
nov17	1	0.286006	0.068406	4.18	<.0001	BINARY VARIABLE-NOVEMBER 2017
dec17	1	-0.57748	0.068456	-8.44	<.0001	BINARY VARIABLE-DECEMBER 2017

Durbin-Watson	2.687315
Number of Observations	386
First-Order Autocorrelation	-0.3442

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

time		Residual Values Sum
1986.9166667	| *	0.019528
1987.0000000	| * |	-0.010655
1987.0833333	| * |	-0.014867
1987.1666667	| * |	0.029725
1987.2500000	| |	-0.007936
1987.3333333	| ** |	0.040204
1987.4166667	| |	-0.009361
1987.5000000	| ** |	0.046015
1987.5833333	| |	0.007946
1987.6666667	| ** |	0.046124
1987.7500000	| ** |	0.041898
1987.8333333	| |	-0.003243
1987.9166667	| ** |	0.032748
1988.0000000	| * |	-0.016016
1988.0833333	| |	-0.007902
1988.1666667	| * |	0.017008
1988.2500000	| * |	-0.011252
1988.3333333	| * |	-0.020391
1988.4166667	| |	-0.005122
1988.5000000	| ** |	0.038456
1988.5833333	| *** |	0.054384
1988.6666667	| ** |	0.033893
1988.7500000	| *** |	0.054261
1988.8333333	| |	-0.000518
1988.9166667	| ** |	0.042486
1989.0000000	| ** |	-0.044715
1989.0833333	| * |	0.023021
1989.1666667	| * |	0.010413
1989.2500000	| * |	0.011277
1989.3333333	| ** |	0.030576
1989.4166667	| * |	0.012208
1989.5000000	| *** |	0.058751
1989.5833333	| * |	0.028578
1989.6666667	| * |	0.026213
1989.7500000	| ** |	0.037794
1989.8333333	| * |	0.015799
1989.9166667	| * |	0.029191
1990.0000000	| **** |	-0.081977
1990.0833333	| ** |	-0.030008
1990.1666667	| * |	-0.026391
1990.2500000	| * |	-0.024874
1990.3333333	| * |	-0.024903
1990.4166667	| |	0.007755
1990.5000000	| |	0.009199
1990.5833333	| * |	-0.010686
1990.6666667	| ** |	-0.039936
1990.7500000	| * |	0.011728
1990.8333333	| ** |	-0.033886
1990.9166667	| |	-0.009846

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

1991.000000	**	-0.047933
1991.0833333	***	-0.059735
1991.1666667	*	-0.028916
1991.2500000	*	-0.028154
1991.3333333	**	0.039198
1991.4166667	****	-0.083996
1991.5000000	*	0.013606
1991.5833333	*	0.013456
1991.6666667	*	-0.015623
1991.7500000		0.007603
1991.8333333	*	-0.023939
1991.9166667	*	-0.017657
1992.0000000	**	-0.042216
1992.0833333	**	-0.032960
1992.1666667		-0.005379
1992.2500000	**	-0.037221
1992.3333333		-0.003420
1992.4166667	*	-0.025781
1992.5000000		0.006273
1992.5833333		0.001177
1992.6666667	*	-0.010575
1992.7500000		-0.000330
1992.8333333	*	-0.026200
1992.9166667	*	0.011811
1993.0000000	**	-0.039956
1993.0833333	*	-0.011751
1993.1666667	*	-0.021109
1993.2500000	*	-0.026501
1993.3333333		-0.008128
1993.4166667	*	0.024125
1993.5000000	*	0.023252
1993.5833333	*	0.013340
1993.6666667	*	-0.016448
1993.7500000	*	0.018499
1993.8333333	*	-0.017139
1993.9166667	*	0.011214
1994.0000000	**	-0.033854
1994.0833333	*****	-0.107894
1994.1666667	*	-0.023987
1994.2500000	*	-0.013070
1994.3333333		-0.002665
1994.4166667	**	0.037838
1994.5000000	*	-0.025654
1994.5833333	*	0.017015
1994.6666667		0.002040
1994.7500000	*	-0.015673
1994.8333333	*	-0.024384
1994.9166667	*	-0.014967
1995.0000000	**	-0.038218
1995.0833333	**	-0.034862
1995.1666667		-0.007329
1995.2500000		-0.006904

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

1995.3333333			-0.004690
1995.4166667		***	0.063033
1995.5000000		***	0.069374
1995.5833333	*****		-0.184627
1995.6666667		*	-0.010678
1995.7500000		**	0.030116
1995.8333333			-0.001023
1995.9166667		*	-0.022627
1996.0000000		*	-0.025186
1996.0833333			-0.003613
1996.1666667		*	-0.016052
1996.2500000			-0.000298
1996.3333333		*	-0.010936
1996.4166667			-0.008852
1996.5000000		*	0.019865
1996.5833333			0.007822
1996.6666667			0.001941
1996.7500000			-0.009249
1996.8333333		**	-0.030821
1996.9166667			0.000444
1997.0000000		*	-0.022306
1997.0833333			-0.000556
1997.1666667		*	0.022951
1997.2500000		*	0.017403
1997.3333333			-0.002254
1997.4166667			-0.005201
1997.5000000		**	0.039041
1997.5833333		*	0.016379
1997.6666667			-0.002006
1997.7500000		*	-0.016121
1997.8333333		*	-0.014191
1997.9166667		*	0.011344
1998.0000000			0.006365
1998.0833333		*****	0.107841
1998.1666667		***	0.058426
1998.2500000	*****		-0.138718
1998.3333333		***	0.055727
1998.4166667		**	0.041106
1998.5000000			0.001426
1998.5833333		*	0.010726
1998.6666667		**	0.032743
1998.7500000			0.006780
1998.8333333			-0.009370
1998.9166667		**	0.030204
1999.0000000		*	-0.011336
1999.0833333			0.000845
1999.1666667		*	0.010459
1999.2500000		*	0.020019
1999.3333333			-0.008319
1999.4166667		*	-0.015525
1999.5000000			0.001413
1999.5833333		*	0.013494

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

1999.666667	|	|	*	|	0.019259
1999.7500000	|	|	|	|	0.004210
1999.8333333	|	|	*	|	-0.024222
1999.9166667	|	|	|	*	0.010299
2000.0000000	|	|	|	|	-0.005989
2000.0833333	|	|	|	|	-0.002909
2000.1666667	|	|	|	*	0.014802
2000.2500000	|	|	|	|	-0.008664
2000.3333333	|	|	|	|	-0.002210
2000.4166667	|	|	*	|	-0.022591
2000.5000000	|	|	*	|	-0.025699
2000.5833333	|	|	|	|	-0.004950
2000.6666667	|	|	|	*	0.019072
2000.7500000	|	|	|	|	0.000328
2000.8333333	|	|	**	|	-0.030432
2000.9166667	|	|	|	*	0.016140
2001.0000000	|	|	*	|	-0.019517
2001.0833333	|	|	|	|	-0.005354
2001.1666667	|	|	|	*	0.018369
2001.2500000	|	|	*	|	-0.012415
2001.3333333	|	|	|	|	0.008951
2001.4166667	|	|	*	|	-0.010377
2001.5000000	|	|	|	|	0.004344
2001.5833333	|	|	|	*	0.010192
2001.6666667	|	|	|	*	0.028271
2001.7500000	|	|	|	|	0.004872
2001.8333333	|	|	*	|	-0.023872
2001.9166667	|	|	|	|	0.007092
2002.0000000	|	|	*	|	-0.012897
2002.0833333	|	|	|	|	0.002569
2002.1666667	|	|	|	*	0.019383
2002.2500000	|	|	|	*	0.023391
2002.3333333	|	|	|	*	0.021364
2002.4166667	|	|	|	|	-0.007787
2002.5000000	|	|	|	|	0.000198
2002.5833333	|	|	|	*	0.011549
2002.6666667	|	|	|	**	0.033398
2002.7500000	|	|	|	|	0.004063
2002.8333333	|	|	*	|	-0.012409
2002.9166667	|	|	|	*	0.028925
2003.0000000	|	|	*	|	-0.012232
2003.0833333	|	|	|	|	0.007321
2003.1666667	|	|	|	*	0.017600
2003.2500000	|	|	|	*	0.011697
2003.3333333	|	|	|	|	0.009820
2003.4166667	|	|	*	|	-0.023306
2003.5000000	|	|	|	|	-0.009581
2003.5833333	|	|	|	|	0.002724
2003.6666667	|	|	|	**	0.038761
2003.7500000	|	|	|	|	-0.003013
2003.8333333	|	|	*	|	-0.018133
2003.9166667	|	|	|	*	0.027725

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

2004.000000	|		0.002672
2004.0833333	|	*	0.012841
2004.1666667	|	*	0.012844
2004.2500000	|	*	0.018245
2004.3333333	|	*	0.013605
2004.4166667	|		0.002262
2004.5000000	|	*	-0.011669
2004.5833333	|		0.003690
2004.6666667	|	**	0.037338
2004.7500000	|		0.000411
2004.8333333	|	*	-0.017593
2004.9166667	|	*	0.026372
2005.0000000	|		-0.009490
2005.0833333	|		-0.000400
2005.1666667	|	*	0.015398
2005.2500000	|	**	0.032920
2005.3333333	|	*	0.013029
2005.4166667	|		-0.002651
2005.5000000	|	*	0.011966
2005.5833333	|	*	0.014796
2005.6666667	|	**	0.036889
2005.7500000	|		0.006210
2005.8333333	|	*	-0.016336
2005.9166667	|	*	0.016862
2006.0000000	|		-0.002047
2006.0833333	|		-0.001776
2006.1666667	|	*	0.017339
2006.2500000	|		0.002580
2006.3333333	|	*	-0.013836
2006.4166667	|	**	-0.040638
2006.5000000	|	*	-0.025702
2006.5833333	|		-0.001322
2006.6666667	|	*	0.023973
2006.7500000	|	****	-0.082469
2006.8333333	|	*	-0.013969
2006.9166667	|	*	0.024184
2007.0000000	|	**	0.034296
2007.0833333	|	***	0.058066
2007.1666667	|	*****	-0.182845
2007.2500000	|		-0.000000
2007.3333333	|	****	-0.079432
2007.4166667	|	*****	0.292980
2007.5000000	|	*	-0.021640
2007.5833333	|		0.004041
2007.6666667	|	*	0.014808
2007.7500000	|	*	-0.014321
2007.8333333	|	**	-0.033234
2007.9166667	|		0.001815
2008.0000000	|	*	-0.028636
2008.0833333	|	**	-0.030975
2008.1666667	|	*	-0.014925
2008.2500000	|	*	0.014715

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

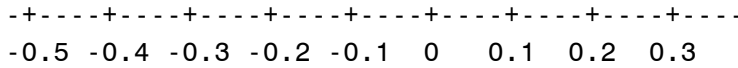
2008.3333333	|	*	|	-0.010096
2008.4166667	|	**	|	-0.040097
2008.5000000	|	**	|	-0.039812
2008.5833333	|		|	-0.008145
2008.6666667	|		|*	0.022379
2008.7500000	|		|	0.006449
2008.8333333	|		|	-0.000000
2008.9166667	|		|	-0.000000
2009.0000000	|		|*	0.017975
2009.0833333	|		|*	0.011170
2009.1666667	|		|*	0.025462
2009.2500000	|		|**	0.030209
2009.3333333	|		|	0.003010
2009.4166667	|		|**	-0.031070
2009.5000000	|		|*****	-0.101644
2009.5833333	|		|*****	0.104056
2009.6666667	|		|***	0.057711
2009.7500000	|	*****	|	-0.472582
2009.8333333	|		|*****	0.373246
2009.9166667	|		|****	0.070193
2010.0000000	|		|	-0.000000
2010.0833333	|		|*****	0.099558
2010.1666667	|		|***	0.055213
2010.2500000	|		|	-0.000000
2010.3333333	|		|	-0.008796
2010.4166667	|		|**	-0.040680
2010.5000000	|		|*	-0.015962
2010.5833333	|		|*	0.015580
2010.6666667	|		|**	0.038396
2010.7500000	|		|	-0.000000
2010.8333333	|		|	-0.000000
2010.9166667	|		|	-0.000000
2011.0000000	|		|*	0.026588
2011.0833333	|		|	-0.000000
2011.1666667	|		|**	0.038576
2011.2500000	|		|	0.006744
2011.3333333	|		|*	-0.012424
2011.4166667	|		|**	-0.046337
2011.5000000	|		|*	-0.028394
2011.5833333	|		|	0.008139
2011.6666667	|	*****	|	-0.485880
2011.7500000	|		|*****	0.327789
2011.8333333	|		|	0.003215
2011.9166667	|	*****	|	-0.502214
2012.0000000	|		|*****	0.361610
2012.0833333	|		|*	0.015942
2012.1666667	|		|**	-0.032048
2012.2500000	|		|****	0.076552
2012.3333333	|		|*	-0.022985
2012.4166667	|		|***	-0.061933
2012.5000000	|		|**	-0.037422
2012.5833333	|		|	-0.002625

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

2012.666667	|	|	*	|	0.019558
2012.750000	|	|	*	|	0.014120
2012.833333	|	|		|	0.008998
2012.916667	|	|	**	|	0.035580
2013.000000	|	|		|	-0.002499
2013.083333	|	|	*	|	0.011722
2013.166667	|	|	*	|	0.014510
2013.250000	|	|		|	-0.002269
2013.333333	|	|	*	|	0.013746
2013.416667	|	|		|	0.009827
2013.500000	|	|	*	|	0.018195
2013.583333	|	|	*	|	-0.011736
2013.666667	|	|	*	|	0.021133
2013.750000	|	|	*	|	0.019785
2013.833333	|	|		|	0.005720
2013.916667	|	|	**	|	0.031997
2014.000000	|	|		|	0.000612
2014.083333	|	|		|	0.002671
2014.166667	|	|	*	|	0.023972
2014.250000	|	|		|	-0.007887
2014.333333	|	|	*	|	0.018050
2014.416667	|	|		|	0.008466
2014.500000	|	|		|	0.009416
2014.583333	|	|	*	|	-0.021421
2014.666667	|	|	*	|	0.015240
2014.750000	|	|	*	|	0.026388
2014.833333	|	|		|	0.005364
2014.916667	|	|	*	|	0.016123
2015.000000	|	|		|	-0.006926
2015.083333	|	|		|	0.000735
2015.166667	|	|	*	|	0.015847
2015.250000	|	|		|	-0.007905
2015.333333	|	|		|	0.005010
2015.416667	|	|		|	0.003510
2015.500000	|	|		|	0.005009
2015.583333	|	|	*	|	-0.024072
2015.666667	|	|		|	0.008625
2015.750000	|	|		|	0.002463
2015.833333	|	|		|	-0.004940
2015.916667	|	|	*	|	0.029905
2016.000000	|	|		|	-0.000000
2016.083333	|	|		|	-0.000000
2016.166667	|	|	*	|	0.011476
2016.250000	|	|	*	|	-0.017354
2016.333333	|	|		|	0.002679
2016.416667	|	|		|	-0.006624
2016.500000	|	|		|	-0.000689
2016.583333	|	|	*	|	-0.021379
2016.666667	|	|		|	0.007523
2016.750000	|	|		|	0.005435
2016.833333	|	|		|	-0.006033
2016.916667	|	|	**	|	0.031495

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Model Residuals

2017.000000	*	-0.014197
2017.0833333		-0.004948
2017.1666667		0.009980
2017.2500000		-0.000114
2017.3333333	*	-0.029482
2017.4166667	*	-0.016444
2017.5000000		-0.001931
2017.5833333	*	-0.026258
2017.6666667		0.005962
2017.7500000		-0.001496
2017.8333333		-0.000000
2017.9166667		-0.000000
2018.0000000	*****	0.115122
2018.0833333		-0.003793
2018.1666667	*****	-0.100769
2018.2500000	*****	0.085784
2018.3333333	*	-0.010004
2018.4166667		0.001265
2018.5000000	*	-0.029999
2018.5833333	**	-0.041863
2018.6666667	*	-0.010102
2018.7500000	*	-0.015951
2018.8333333	*	-0.026454
2018.9166667		0.003633
2019.0000000	**	-0.036444



Residual Values

Indiana Michigan Power Company - Indiana
 Other Ultimate Energy Sales
 Actual and Forecast

YEAR	ENERGY SALES	GROWTH RATE
1984	70.6420	.
1985	70.6750	0.0
1986	71.4720	1.1
1987	72.0720	0.8
1988	72.1840	0.2
1989	72.6770	0.7
1990	69.9100	-3.8
1991	70.0610	0.2
1992	70.4820	0.6
1993	71.1780	1.0
1994	70.3230	-1.2
1995	70.7870	0.7
1996	71.0378	0.4
1997	71.8041	1.1
1998	73.1539	1.9
1999	72.0270	-1.5
2000	71.7691	-0.4
2001	72.1001	0.5
2002	72.6864	0.8
2003	72.2444	-0.6
2004	72.4768	0.3
2005	71.3214	-1.6
2006	69.8470	-2.1
2007	67.9569	-2.7
2008	64.3325	-5.3
2009	63.9299	-0.6
2010	60.0729	-6.0
2011	61.9772	3.2
2012	64.2542	3.7
2013	61.1369	-4.9
2014	60.9207	-0.4
2015	60.4672	-0.7
2016	60.2267	-0.4
2017	59.0859	-1.9
2018	60.2313	1.9
2019	59.6384	-1.0
2020	59.3604	-0.5
2021	58.9138	-0.8
2022	58.7491	-0.3
2023	58.7576	0.0
2024	58.8092	0.1
2025	58.8507	0.1
2026	58.8628	0.0
2027	58.8664	0.0
2028	58.8737	0.0
2029	58.8908	0.0
2030	58.9095	0.0
2031	58.9268	0.0

Indiana Michigan Power Company - Indiana
Other Ultimate Energy Sales
Actual and Forecast

YEAR	ENERGY SALES	GROWTH RATE
2032	58.9394	0.0
2033	58.9487	0.0
2034	58.9481	0.0
2035	58.9465	0.0
2036	58.9535	0.0
2037	58.9615	0.0
2038	58.9673	0.0
2039	58.9756	0.0
2040	59.0074	0.1
2041	59.0372	0.1
2042	59.0472	0.0
2043	59.0363	0.0
2044	59.0261	0.0
2045	59.0146	0.0
2046	58.9932	0.0
2047	58.9613	-0.1
2048	58.9202	-0.1
2049	58.8666	-0.1
2050	58.8010	-0.1
2051	58.7295	-0.1
2052	58.6575	-0.1
2053	58.5859	-0.1
2054	58.5137	-0.1

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
eu_imm	ENERGY SALES, OTHER ULTIMATE	0.9621305

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
1	2000	1	1.20332
2	2000	2	1.04222
3	2000	3	1.02241
4	2000	4	0.92302
5	2000	5	0.85851
6	2000	6	0.80618
7	2000	7	0.83553
8	2000	8	0.89345
9	2000	9	0.96111
10	2000	10	1.05867
11	2000	11	1.10086
12	2000	12	1.19863
13	2001	1	1.20809
14	2001	2	1.04205
15	2001	3	1.02761
16	2001	4	0.92368
17	2001	5	0.86271
18	2001	6	0.81106
19	2001	7	0.83465
20	2001	8	0.90365
21	2001	9	0.94554
22	2001	10	1.08911
23	2001	11	1.11705
24	2001	12	1.20449
25	2002	1	1.21956
26	2002	2	1.04833
27	2002	3	1.05268
28	2002	4	0.93469
29	2002	5	0.85806
30	2002	6	0.81424
31	2002	7	0.84097
32	2002	8	0.91052
33	2002	9	0.97322
34	2002	10	1.07748
35	2002	11	1.10120
36	2002	12	1.20984
37	2003	1	1.20774
38	2003	2	1.05241
39	2003	3	1.02668
40	2003	4	0.92808
41	2003	5	0.86052
42	2003	6	0.78074
43	2003	7	0.83075
44	2003	8	0.91246
45	2003	9	0.97307
46	2003	10	1.06966
47	2003	11	1.20193
48	2003	12	1.21445
49	2004	1	1.20673
50	2004	2	1.05277

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Endogenous Variables

Obs	YEAR	MONTH	eu_imm
51	2004	3	1.03612
52	2004	4	0.93098
53	2004	5	0.87157
54	2004	6	0.82520
55	2004	7	0.84032
56	2004	8	0.91006
57	2004	9	0.97570
58	2004	10	1.06942
59	2004	11	1.11450
60	2004	12	1.21465
61	2005	1	1.22998
62	2005	2	1.06332
63	2005	3	1.05796
64	2005	4	0.94229
65	2005	5	0.87088
66	2005	6	0.80611
67	2005	7	0.84458
68	2005	8	0.91711
69	2005	9	0.98668
70	2005	10	1.07967
71	2005	11	1.12256
72	2005	12	1.22783
73	2006	1	1.21549
74	2006	2	1.06044
75	2006	3	1.04265
76	2006	4	0.94457
77	2006	5	0.87516
78	2006	6	0.82297
79	2006	7	0.85020
80	2006	8	0.90934
81	2006	9	0.97336
82	2006	10	1.07282
83	2006	11	1.12051
84	2006	12	1.22232
85	2007	1	1.20110
86	2007	2	1.05616
87	2007	3	1.04117
88	2007	4	0.94031
89	2007	5	0.86264
90	2007	6	0.81391
91	2007	7	0.86811
92	2007	8	0.90871
93	2007	9	0.97578
94	2007	10	1.06553
95	2007	11	1.12510
96	2007	12	1.22992
97	2008	1	1.23032
98	2008	2	1.06336
99	2008	3	1.04502
100	2008	4	0.93633

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
101	2008	5	0.86101
102	2008	6	0.81431
103	2008	7	0.84197
104	2008	8	0.91163
105	2008	9	0.96660
106	2008	10	1.06838
107	2008	11	1.12077
108	2008	12	1.19474
109	2009	1	1.22852
110	2009	2	1.05162
111	2009	3	1.02760
112	2009	4	0.92623
113	2009	5	0.82592
114	2009	6	0.79233
115	2009	7	0.80808
116	2009	8	0.87817
117	2009	9	0.93668
118	2009	10	1.03685
119	2009	11	1.08063
120	2009	12	1.18007
121	2010	1	1.16854
122	2010	2	1.01135
123	2010	3	0.99798
124	2010	4	0.90021
125	2010	5	0.82302
126	2010	6	0.77191
127	2010	7	0.79744
128	2010	8	0.80399
129	2010	9	0.85518
130	2010	10	1.12372
131	2010	11	1.05364
132	2010	12	1.21564
133	2011	1	1.19449
134	2011	2	0.99796
135	2011	3	0.99544
136	2011	4	0.85831
137	2011	5	0.77085
138	2011	6	0.70132
139	2011	7	0.73607
140	2011	8	0.81749
141	2011	9	0.89141
142	2011	10	1.01915
143	2011	11	1.09635
144	2011	12	1.19762
145	2012	1	1.18416
146	2012	2	0.98885
147	2012	3	0.94942
148	2012	4	0.84329
149	2012	5	0.79131
150	2012	6	0.68794

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
151	2012	7	0.72877
152	2012	8	0.81117
153	2012	9	0.89166
154	2012	10	1.02960
155	2012	11	1.09349
156	2012	12	1.18745
157	2013	1	1.17553
158	2013	2	0.98671
159	2013	3	0.98573
160	2013	4	0.85066
161	2013	5	0.75616
162	2013	6	0.68452
163	2013	7	0.72017
164	2013	8	0.80762
165	2013	9	0.88318
166	2013	10	1.01832
167	2013	11	1.08322
168	2013	12	1.17608
169	2014	1	1.17302
170	2014	2	0.97857
171	2014	3	0.97241
172	2014	4	0.83278
173	2014	5	0.74808
174	2014	6	0.67523
175	2014	7	0.71152
176	2014	8	0.78985
177	2014	9	0.87196
178	2014	10	1.00852
179	2014	11	1.07126
180	2014	12	1.17362
181	2015	1	1.16149
182	2015	2	0.97733
183	2015	3	0.96043
184	2015	4	0.82858
185	2015	5	0.73550
186	2015	6	0.66836
187	2015	7	0.70438
188	2015	8	0.79181
189	2015	9	0.86521
190	2015	10	0.99879
191	2015	11	1.05554
192	2015	12	1.15752
193	2016	1	1.14603
194	2016	2	0.95760
195	2016	3	0.94966
196	2016	4	0.81230
197	2016	5	0.73140
198	2016	6	0.65972
199	2016	7	0.69319
200	2016	8	0.78395

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Endogenous Variables

Obs	YEAR	MONTH	eu_imm
201	2016	9	0.85727
202	2016	10	0.99115
203	2016	11	1.04820
204	2016	12	1.13933
205	2017	1	1.13189
206	2017	2	0.94597
207	2017	3	0.93599
208	2017	4	0.80515
209	2017	5	0.71912
210	2017	6	0.65094
211	2017	7	0.68723
212	2017	8	0.77493
213	2017	9	0.84994
214	2017	10	0.98158
215	2017	11	1.03997
216	2017	12	1.12824
217	2018	1	1.12301
218	2018	2	0.93748
219	2018	3	0.93182
220	2018	4	0.79863
221	2018	5	0.71158
222	2018	6	0.64534
223	2018	7	0.68168
224	2018	8	0.76816
225	2018	9	0.84234
226	2018	10	0.97313
227	2018	11	1.03305
228	2018	12	1.12598
229	2019	1	1.11391
230	2019	2	.
231	2019	3	.
232	2019	4	.
233	2019	5	.
234	2019	6	.
235	2019	7	.
236	2019	8	.
237	2019	9	.
238	2019	10	.
239	2019	11	.
240	2019	12	.
241	2020	1	.
242	2020	2	.
243	2020	3	.
244	2020	4	.
245	2020	5	.
246	2020	6	.
247	2020	7	.
248	2020	8	.
249	2020	9	.
250	2020	10	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
251	2020	11	.
252	2020	12	.
253	2021	1	.
254	2021	2	.
255	2021	3	.
256	2021	4	.
257	2021	5	.
258	2021	6	.
259	2021	7	.
260	2021	8	.
261	2021	9	.
262	2021	10	.
263	2021	11	.
264	2021	12	.
265	2022	1	.
266	2022	2	.
267	2022	3	.
268	2022	4	.
269	2022	5	.
270	2022	6	.
271	2022	7	.
272	2022	8	.
273	2022	9	.
274	2022	10	.
275	2022	11	.
276	2022	12	.
277	2023	1	.
278	2023	2	.
279	2023	3	.
280	2023	4	.
281	2023	5	.
282	2023	6	.
283	2023	7	.
284	2023	8	.
285	2023	9	.
286	2023	10	.
287	2023	11	.
288	2023	12	.
289	2024	1	.
290	2024	2	.
291	2024	3	.
292	2024	4	.
293	2024	5	.
294	2024	6	.
295	2024	7	.
296	2024	8	.
297	2024	9	.
298	2024	10	.
299	2024	11	.
300	2024	12	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
301	2025	1	.
302	2025	2	.
303	2025	3	.
304	2025	4	.
305	2025	5	.
306	2025	6	.
307	2025	7	.
308	2025	8	.
309	2025	9	.
310	2025	10	.
311	2025	11	.
312	2025	12	.
313	2026	1	.
314	2026	2	.
315	2026	3	.
316	2026	4	.
317	2026	5	.
318	2026	6	.
319	2026	7	.
320	2026	8	.
321	2026	9	.
322	2026	10	.
323	2026	11	.
324	2026	12	.
325	2027	1	.
326	2027	2	.
327	2027	3	.
328	2027	4	.
329	2027	5	.
330	2027	6	.
331	2027	7	.
332	2027	8	.
333	2027	9	.
334	2027	10	.
335	2027	11	.
336	2027	12	.
337	2028	1	.
338	2028	2	.
339	2028	3	.
340	2028	4	.
341	2028	5	.
342	2028	6	.
343	2028	7	.
344	2028	8	.
345	2028	9	.
346	2028	10	.
347	2028	11	.
348	2028	12	.
349	2029	1	.
350	2029	2	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
351	2029	3	.
352	2029	4	.
353	2029	5	.
354	2029	6	.
355	2029	7	.
356	2029	8	.
357	2029	9	.
358	2029	10	.
359	2029	11	.
360	2029	12	.
361	2030	1	.
362	2030	2	.
363	2030	3	.
364	2030	4	.
365	2030	5	.
366	2030	6	.
367	2030	7	.
368	2030	8	.
369	2030	9	.
370	2030	10	.
371	2030	11	.
372	2030	12	.
373	2031	1	.
374	2031	2	.
375	2031	3	.
376	2031	4	.
377	2031	5	.
378	2031	6	.
379	2031	7	.
380	2031	8	.
381	2031	9	.
382	2031	10	.
383	2031	11	.
384	2031	12	.
385	2032	1	.
386	2032	2	.
387	2032	3	.
388	2032	4	.
389	2032	5	.
390	2032	6	.
391	2032	7	.
392	2032	8	.
393	2032	9	.
394	2032	10	.
395	2032	11	.
396	2032	12	.
397	2033	1	.
398	2033	2	.
399	2033	3	.
400	2033	4	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
401	2033	5	.
402	2033	6	.
403	2033	7	.
404	2033	8	.
405	2033	9	.
406	2033	10	.
407	2033	11	.
408	2033	12	.
409	2034	1	.
410	2034	2	.
411	2034	3	.
412	2034	4	.
413	2034	5	.
414	2034	6	.
415	2034	7	.
416	2034	8	.
417	2034	9	.
418	2034	10	.
419	2034	11	.
420	2034	12	.
421	2035	1	.
422	2035	2	.
423	2035	3	.
424	2035	4	.
425	2035	5	.
426	2035	6	.
427	2035	7	.
428	2035	8	.
429	2035	9	.
430	2035	10	.
431	2035	11	.
432	2035	12	.
433	2036	1	.
434	2036	2	.
435	2036	3	.
436	2036	4	.
437	2036	5	.
438	2036	6	.
439	2036	7	.
440	2036	8	.
441	2036	9	.
442	2036	10	.
443	2036	11	.
444	2036	12	.
445	2037	1	.
446	2037	2	.
447	2037	3	.
448	2037	4	.
449	2037	5	.
450	2037	6	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
451	2037	7	.
452	2037	8	.
453	2037	9	.
454	2037	10	.
455	2037	11	.
456	2037	12	.
457	2038	1	.
458	2038	2	.
459	2038	3	.
460	2038	4	.
461	2038	5	.
462	2038	6	.
463	2038	7	.
464	2038	8	.
465	2038	9	.
466	2038	10	.
467	2038	11	.
468	2038	12	.
469	2039	1	.
470	2039	2	.
471	2039	3	.
472	2039	4	.
473	2039	5	.
474	2039	6	.
475	2039	7	.
476	2039	8	.
477	2039	9	.
478	2039	10	.
479	2039	11	.
480	2039	12	.
481	2040	1	.
482	2040	2	.
483	2040	3	.
484	2040	4	.
485	2040	5	.
486	2040	6	.
487	2040	7	.
488	2040	8	.
489	2040	9	.
490	2040	10	.
491	2040	11	.
492	2040	12	.
493	2041	1	.
494	2041	2	.
495	2041	3	.
496	2041	4	.
497	2041	5	.
498	2041	6	.
499	2041	7	.
500	2041	8	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
501	2041	9	.
502	2041	10	.
503	2041	11	.
504	2041	12	.
505	2042	1	.
506	2042	2	.
507	2042	3	.
508	2042	4	.
509	2042	5	.
510	2042	6	.
511	2042	7	.
512	2042	8	.
513	2042	9	.
514	2042	10	.
515	2042	11	.
516	2042	12	.
517	2043	1	.
518	2043	2	.
519	2043	3	.
520	2043	4	.
521	2043	5	.
522	2043	6	.
523	2043	7	.
524	2043	8	.
525	2043	9	.
526	2043	10	.
527	2043	11	.
528	2043	12	.
529	2044	1	.
530	2044	2	.
531	2044	3	.
532	2044	4	.
533	2044	5	.
534	2044	6	.
535	2044	7	.
536	2044	8	.
537	2044	9	.
538	2044	10	.
539	2044	11	.
540	2044	12	.
541	2045	1	.
542	2045	2	.
543	2045	3	.
544	2045	4	.
545	2045	5	.
546	2045	6	.
547	2045	7	.
548	2045	8	.
549	2045	9	.
550	2045	10	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
551	2045	11	.
552	2045	12	.
553	2046	1	.
554	2046	2	.
555	2046	3	.
556	2046	4	.
557	2046	5	.
558	2046	6	.
559	2046	7	.
560	2046	8	.
561	2046	9	.
562	2046	10	.
563	2046	11	.
564	2046	12	.
565	2047	1	.
566	2047	2	.
567	2047	3	.
568	2047	4	.
569	2047	5	.
570	2047	6	.
571	2047	7	.
572	2047	8	.
573	2047	9	.
574	2047	10	.
575	2047	11	.
576	2047	12	.
577	2048	1	.
578	2048	2	.
579	2048	3	.
580	2048	4	.
581	2048	5	.
582	2048	6	.
583	2048	7	.
584	2048	8	.
585	2048	9	.
586	2048	10	.
587	2048	11	.
588	2048	12	.
589	2049	1	.
590	2049	2	.
591	2049	3	.
592	2049	4	.
593	2049	5	.
594	2049	6	.
595	2049	7	.
596	2049	8	.
597	2049	9	.
598	2049	10	.
599	2049	11	.
600	2049	12	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
601	2050	1	.
602	2050	2	.
603	2050	3	.
604	2050	4	.
605	2050	5	.
606	2050	6	.
607	2050	7	.
608	2050	8	.
609	2050	9	.
610	2050	10	.
611	2050	11	.
612	2050	12	.
613	2051	1	.
614	2051	2	.
615	2051	3	.
616	2051	4	.
617	2051	5	.
618	2051	6	.
619	2051	7	.
620	2051	8	.
621	2051	9	.
622	2051	10	.
623	2051	11	.
624	2051	12	.
625	2052	1	.
626	2052	2	.
627	2052	3	.
628	2052	4	.
629	2052	5	.
630	2052	6	.
631	2052	7	.
632	2052	8	.
633	2052	9	.
634	2052	10	.
635	2052	11	.
636	2052	12	.
637	2053	1	.
638	2053	2	.
639	2053	3	.
640	2053	4	.
641	2053	5	.
642	2053	6	.
643	2053	7	.
644	2053	8	.
645	2053	9	.
646	2053	10	.
647	2053	11	.
648	2053	12	.
649	2054	1	.
650	2054	2	.

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Endogenous Variables

Obs	YEAR	MONTH	eu_imm
651	2054	3	.
652	2054	4	.
653	2054	5	.
654	2054	6	.
655	2054	7	.
656	2054	8	.
657	2054	9	.
658	2054	10	.
659	2054	11	.
660	2054	12	.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2027.00
MONTH	MONTH	6.5000000
N_IMM	SERVICE AREA POPULATION	326.2454247
d1	BINARY VARIABLE - JANUARY	0.0833333
d2	BINARY VARIABLE - FEBRUARY	0.0833333
d3	BINARY VARIABLE - MARCH	0.0833333
d4	BINARY VARIABLE - APRIL	0.0833333
d5	BINARY VARIABLE - MAY	0.0833333
d6	BINARY VARIABLE - JUNE	0.0833333
d7	BINARY VARIABLE - JULY	0.0833333
d8	BINARY VARIABLE - AUGUST	0.0833333
d9	BINARY VARIABLE - SEPTEMBER	0.0833333
d10	BINARY VARIABLE - OCTOBER	0.0833333
d12	BINARY VARIABLE - DECEMBER	0.0833333
feb14on	BINARY VARIABLE - FEBRUARY 2014 ON	0.7439394
aprsept11on	BINARY VARIABLE - APRIL THROUGH SEPTEMBER 2011 ON	0.4000000
oct16on	BINARY VARIABLE - OCTOBER 2016 ON	0.6954545

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
101	2008	5	348.795	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.
102	2008	6	348.745	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
103	2008	7	348.682	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.
104	2008	8	348.607	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.
105	2008	9	348.521	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.
106	2008	10	348.426	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
107	2008	11	348.323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
108	2008	12	348.211	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
109	2009	1	348.092	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
110	2009	2	347.976	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
111	2009	3	347.855	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
112	2009	4	347.729	0	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.
113	2009	5	347.601	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.
114	2009	6	347.475	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
115	2009	7	347.349	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.
116	2009	8	347.225	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.
117	2009	9	347.106	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.
118	2009	10	346.993	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
119	2009	11	346.884	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
120	2009	12	346.782	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
121	2010	1	346.687	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
122	2010	2	346.602	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
123	2010	3	346.527	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
124	2010	4	346.459	0	0	0	1	0	0	0	0	0	0	0	0	0	0	CONFID.
125	2010	5	346.402	0	0	0	0	1	0	0	0	0	0	0	0	0	0	CONFID.
126	2010	6	346.356	0	0	0	0	0	1	0	0	0	0	0	0	0	0	CONFID.
127	2010	7	346.324	0	0	0	0	0	0	1	0	0	0	0	0	0	0	CONDID.
128	2010	8	346.302	0	0	0	0	0	0	0	1	0	0	0	0	0	0	CONFID.
129	2010	9	346.290	0	0	0	0	0	0	0	0	1	0	0	0	0	0	CONFID.
130	2010	10	346.284	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
131	2010	11	346.279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
132	2010	12	346.276	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
133	2011	1	346.269	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
134	2011	2	346.258	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
135	2011	3	346.238	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
136	2011	4	346.206	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
137	2011	5	346.158	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
138	2011	6	346.095	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
139	2011	7	346.010	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONDID.
140	2011	8	345.904	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
141	2011	9	345.782	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
142	2011	10	345.645	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
143	2011	11	345.497	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
144	2011	12	345.338	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
145	2012	1	345.172	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
146	2012	2	345.010	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
147	2012	3	344.846	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
148	2012	4	344.683	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
149	2012	5	344.526	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
150	2012	6	344.378	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
151	2012	7	344.241	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONCID.
152	2012	8	344.115	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
153	2012	9	344.005	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
154	2012	10	343.906	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
155	2012	11	343.821	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
156	2012	12	343.747	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
157	2013	1	343.683	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
158	2013	2	343.632	0	1	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
159	2013	3	343.592	0	0	1	0	0	0	0	0	0	0	0	0	0	0	CONFID.
160	2013	4	343.561	0	0	0	1	0	0	0	0	0	0	0	0	1	0	CONFID.
161	2013	5	343.540	0	0	0	0	1	0	0	0	0	0	0	0	1	0	CONFID.
162	2013	6	343.529	0	0	0	0	0	1	0	0	0	0	0	0	1	0	CONFID.
163	2013	7	343.527	0	0	0	0	0	0	1	0	0	0	0	0	1	0	CONCID.
164	2013	8	343.533	0	0	0	0	0	0	0	1	0	0	0	0	1	0	CONFID.
165	2013	9	343.544	0	0	0	0	0	0	0	0	1	0	0	0	1	0	CONFID.
166	2013	10	343.558	0	0	0	0	0	0	0	0	0	1	0	0	0	0	CONFID.
167	2013	11	343.573	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
168	2013	12	343.584	0	0	0	0	0	0	0	0	0	0	1	0	0	0	CONFID.
169	2014	1	343.590	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CONFID.
170	2014	2	343.591	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
171	2014	3	343.580	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
172	2014	4	343.558	0	0	0	1	0	0	0	0	0	0	0	1	1	0	CONFID.
173	2014	5	343.520	0	0	0	0	1	0	0	0	0	0	0	1	1	0	CONFID.
174	2014	6	343.465	0	0	0	0	0	1	0	0	0	0	0	1	1	0	CONFID.
175	2014	7	343.389	0	0	0	0	0	0	1	0	0	0	0	1	1	0	CONCID.
176	2014	8	343.293	0	0	0	0	0	0	0	1	0	0	0	1	1	0	CONFID.
177	2014	9	343.179	0	0	0	0	0	0	0	0	1	0	0	1	1	0	CONFID.
178	2014	10	343.052	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.
179	2014	11	342.914	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
180	2014	12	342.767	0	0	0	0	0	0	0	0	0	0	1	1	0	0	CONFID.
181	2015	1	342.613	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
182	2015	2	342.464	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
183	2015	3	342.317	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
184	2015	4	342.168	0	0	0	1	0	0	0	0	0	0	0	1	1	0	CONFID.
185	2015	5	342.026	0	0	0	0	1	0	0	0	0	0	0	1	1	0	CONFID.
186	2015	6	341.891	0	0	0	0	0	1	0	0	0	0	0	1	1	0	CONFID.
187	2015	7	341.771	0	0	0	0	0	0	1	0	0	0	0	1	1	0	CONCID.
188	2015	8	341.663	0	0	0	0	0	0	0	1	0	0	0	1	1	0	CONFID.
189	2015	9	341.571	0	0	0	0	0	0	0	0	1	0	0	1	1	0	CONFID.
190	2015	10	341.493	0	0	0	0	0	0	0	0	0	1	0	1	0	0	CONFID.
191	2015	11	341.427	0	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
192	2015	12	341.375	0	0	0	0	0	0	0	0	0	0	1	1	0	0	CONFID.
193	2016	1	341.337	1	0	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
194	2016	2	341.311	0	1	0	0	0	0	0	0	0	0	0	1	0	0	CONFID.
195	2016	3	341.295	0	0	1	0	0	0	0	0	0	0	0	1	0	0	CONFID.
196	2016	4	341.294	0	0	0	1	0	0	0	0	0	0	0	1	1	0	CONFID.
197	2016	5	341.303	0	0	0	0	1	0	0	0	0	0	0	1	1	0	CONFID.
198	2016	6	341.324	0	0	0	0	0	1	0	0	0	0	0	1	1	0	CONFID.
199	2016	7	341.357	0	0	0	0	0	0	1	0	0	0	0	1	1	0	CONCID.
200	2016	8	341.400	0	0	0	0	0	0	0	1	0	0	0	1	1	0	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
201	2016	9	341.451	0	0	0	0	0	0	0	0	1	0	0	1	1	0	CONFID.
202	2016	10	341.508	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
203	2016	11	341.571	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
204	2016	12	341.635	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
205	2017	1	341.703	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
206	2017	2	341.765	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
207	2017	3	341.825	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
208	2017	4	341.882	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
209	2017	5	341.934	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
210	2017	6	341.976	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
211	2017	7	342.010	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
212	2017	8	342.032	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
213	2017	9	342.043	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
214	2017	10	342.045	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
215	2017	11	342.037	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
216	2017	12	342.019	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
217	2018	1	341.992	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
218	2018	2	341.958	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
219	2018	3	341.918	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
220	2018	4	341.869	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
221	2018	5	341.810	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
222	2018	6	341.747	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
223	2018	7	341.677	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
224	2018	8	341.600	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
225	2018	9	341.520	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
226	2018	10	341.433	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
227	2018	11	341.343	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
228	2018	12	341.250	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
229	2019	1	341.150	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
230	2019	2	341.051	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
231	2019	3	340.951	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
232	2019	4	340.844	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
233	2019	5	340.735	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
234	2019	6	340.625	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
235	2019	7	340.513	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
236	2019	8	340.400	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
237	2019	9	340.286	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
238	2019	10	340.173	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
239	2019	11	340.059	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
240	2019	12	339.946	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
241	2020	1	339.828	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
242	2020	2	339.716	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
243	2020	3	339.604	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
244	2020	4	339.489	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
245	2020	5	339.375	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
246	2020	6	339.261	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
247	2020	7	339.147	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
248	2020	8	339.033	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
249	2020	9	338.922	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
250	2020	10	338.809	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
251	2020	11	338.698	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
252	2020	12	338.587	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
253	2021	1	338.473	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
254	2021	2	338.366	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
255	2021	3	338.258	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
256	2021	4	338.146	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
257	2021	5	338.035	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
258	2021	6	337.921	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
259	2021	7	337.808	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
260	2021	8	337.693	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
261	2021	9	337.580	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
262	2021	10	337.464	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
263	2021	11	337.350	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
264	2021	12	337.235	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
265	2022	1	337.119	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
266	2022	2	337.008	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
267	2022	3	336.896	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
268	2022	4	336.782	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
269	2022	5	336.667	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
270	2022	6	336.553	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
271	2022	7	336.439	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
272	2022	8	336.324	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
273	2022	9	336.210	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
274	2022	10	336.097	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
275	2022	11	335.983	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
276	2022	12	335.869	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
277	2023	1	335.754	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
278	2023	2	335.645	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
279	2023	3	335.533	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
280	2023	4	335.416	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
281	2023	5	335.300	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
282	2023	6	335.183	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
283	2023	7	335.064	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
284	2023	8	334.942	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
285	2023	9	334.820	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
286	2023	10	334.698	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
287	2023	11	334.575	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
288	2023	12	334.452	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
289	2024	1	334.327	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
290	2024	2	334.204	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
291	2024	3	334.084	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
292	2024	4	333.959	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
293	2024	5	333.837	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
294	2024	6	333.712	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
295	2024	7	333.591	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
296	2024	8	333.468	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
297	2024	9	333.347	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
298	2024	10	333.227	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
299	2024	11	333.108	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
300	2024	12	332.989	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
301	2025	1	332.868	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
302	2025	2	332.754	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
303	2025	3	332.639	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
304	2025	4	332.522	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
305	2025	5	332.404	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
306	2025	6	332.286	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
307	2025	7	332.168	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
308	2025	8	332.049	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
309	2025	9	331.931	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
310	2025	10	331.814	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
311	2025	11	331.697	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
312	2025	12	331.579	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
313	2026	1	331.461	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
314	2026	2	331.348	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
315	2026	3	331.236	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
316	2026	4	331.119	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
317	2026	5	331.005	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
318	2026	6	330.889	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
319	2026	7	330.775	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
320	2026	8	330.659	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
321	2026	9	330.545	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
322	2026	10	330.432	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
323	2026	11	330.320	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
324	2026	12	330.208	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
325	2027	1	330.093	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
326	2027	2	329.986	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
327	2027	3	329.877	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
328	2027	4	329.767	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
329	2027	5	329.655	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
330	2027	6	329.544	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
331	2027	7	329.434	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
332	2027	8	329.322	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
333	2027	9	329.211	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
334	2027	10	329.101	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
335	2027	11	328.991	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
336	2027	12	328.880	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
337	2028	1	328.766	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
338	2028	2	328.658	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
339	2028	3	328.548	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
340	2028	4	328.437	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
341	2028	5	328.324	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
342	2028	6	328.211	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
343	2028	7	328.099	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
344	2028	8	327.983	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
345	2028	9	327.869	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
346	2028	10	327.756	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
347	2028	11	327.640	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
348	2028	12	327.525	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
349	2029	1	327.406	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
350	2029	2	327.293	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.

Indiana Michigan Power Company - Michigan
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 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
351	2029	3	327.179	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
352	2029	4	327.062	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
353	2029	5	326.942	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
354	2029	6	326.822	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
355	2029	7	326.702	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
356	2029	8	326.578	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
357	2029	9	326.456	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
358	2029	10	326.334	0	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
359	2029	11	326.211	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
360	2029	12	326.089	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
361	2030	1	325.965	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
362	2030	2	325.847	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
363	2030	3	325.730	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
364	2030	4	325.607	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
365	2030	5	325.488	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
366	2030	6	325.368	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
367	2030	7	325.250	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
368	2030	8	325.132	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
369	2030	9	325.017	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
370	2030	10	324.903	0	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
371	2030	11	324.788	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
372	2030	12	324.674	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
373	2031	1	324.560	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
374	2031	2	324.450	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
375	2031	3	324.342	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
376	2031	4	324.230	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
377	2031	5	324.116	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
378	2031	6	324.003	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
379	2031	7	323.889	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
380	2031	8	323.774	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
381	2031	9	323.659	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
382	2031	10	323.544	0	0	0	0	0	0	0	0	0	0	1	0	0	1	CONFID.
383	2031	11	323.429	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
384	2031	12	323.313	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
385	2032	1	323.196	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
386	2032	2	323.082	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
387	2032	3	322.969	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
388	2032	4	322.856	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
389	2032	5	322.741	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
390	2032	6	322.628	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
391	2032	7	322.514	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
392	2032	8	322.399	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
393	2032	9	322.286	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
394	2032	10	322.174	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
395	2032	11	322.062	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
396	2032	12	321.952	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
397	2033	1	321.839	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
398	2033	2	321.731	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
399	2033	3	321.624	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
400	2033	4	321.513	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
401	2033	5	321.402	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
402	2033	6	321.292	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
403	2033	7	321.180	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
404	2033	8	321.068	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
405	2033	9	320.954	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
406	2033	10	320.843	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
407	2033	11	320.732	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
408	2033	12	320.620	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
409	2034	1	320.505	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
410	2034	2	320.399	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
411	2034	3	320.291	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
412	2034	4	320.179	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
413	2034	5	320.069	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
414	2034	6	319.956	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
415	2034	7	319.846	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
416	2034	8	319.733	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
417	2034	9	319.623	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
418	2034	10	319.513	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
419	2034	11	319.403	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
420	2034	12	319.292	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
421	2035	1	319.180	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
422	2035	2	319.072	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
423	2035	3	318.964	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
424	2035	4	318.852	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
425	2035	5	318.740	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
426	2035	6	318.627	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
427	2035	7	318.512	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
428	2035	8	318.395	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
429	2035	9	318.278	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
430	2035	10	318.161	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
431	2035	11	318.042	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
432	2035	12	317.925	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
433	2036	1	317.802	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
434	2036	2	317.685	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
435	2036	3	317.565	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
436	2036	4	317.442	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
437	2036	5	317.319	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
438	2036	6	317.196	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
439	2036	7	317.073	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
440	2036	8	316.944	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
441	2036	9	316.820	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
442	2036	10	316.695	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
443	2036	11	316.568	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
444	2036	12	316.442	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
445	2037	1	316.313	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
446	2037	2	316.191	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
447	2037	3	316.069	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
448	2037	4	315.942	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
449	2037	5	315.817	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
450	2037	6	315.694	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
451	2037	7	315.568	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
452	2037	8	315.443	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
453	2037	9	315.320	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
454	2037	10	315.198	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
455	2037	11	315.076	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
456	2037	12	314.954	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
457	2038	1	314.830	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
458	2038	2	314.712	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
459	2038	3	314.595	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
460	2038	4	314.473	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
461	2038	5	314.352	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
462	2038	6	314.229	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
463	2038	7	314.107	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
464	2038	8	313.982	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
465	2038	9	313.859	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
466	2038	10	313.736	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
467	2038	11	313.613	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
468	2038	12	313.489	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
469	2039	1	313.363	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
470	2039	2	313.243	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
471	2039	3	313.124	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
472	2039	4	312.999	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
473	2039	5	312.875	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
474	2039	6	312.753	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
475	2039	7	312.628	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
476	2039	8	312.503	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
477	2039	9	312.379	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
478	2039	10	312.254	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
479	2039	11	312.132	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
480	2039	12	312.009	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
481	2040	1	311.882	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
482	2040	2	311.761	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
483	2040	3	311.640	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
484	2040	4	311.517	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
485	2040	5	311.394	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
486	2040	6	311.270	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
487	2040	7	311.146	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
488	2040	8	311.022	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
489	2040	9	310.898	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
490	2040	10	310.775	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
491	2040	11	310.651	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
492	2040	12	310.527	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
493	2041	1	310.402	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
494	2041	2	310.281	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
495	2041	3	310.160	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
496	2041	4	310.034	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
497	2041	5	309.909	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
498	2041	6	309.783	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
499	2041	7	309.656	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
500	2041	8	309.525	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.

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Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
501	2041	9	309.396	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
502	2041	10	309.267	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
503	2041	11	309.138	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
504	2041	12	309.008	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
505	2042	1	308.875	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
506	2042	2	308.748	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
507	2042	3	308.620	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
508	2042	4	308.486	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
509	2042	5	308.352	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
510	2042	6	308.217	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
511	2042	7	308.082	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
512	2042	8	307.943	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
513	2042	9	307.807	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
514	2042	10	307.668	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
515	2042	11	307.530	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
516	2042	12	307.390	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
517	2043	1	307.247	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
518	2043	2	307.111	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
519	2043	3	306.975	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
520	2043	4	306.831	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
521	2043	5	306.689	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
522	2043	6	306.545	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
523	2043	7	306.400	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
524	2043	8	306.254	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
525	2043	9	306.107	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
526	2043	10	305.961	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
527	2043	11	305.815	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
528	2043	12	305.667	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
529	2044	1	305.518	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
530	2044	2	305.372	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
531	2044	3	305.226	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
532	2044	4	305.079	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
533	2044	5	304.930	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
534	2044	6	304.781	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
535	2044	7	304.632	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
536	2044	8	304.480	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
537	2044	9	304.331	0	0	0	0	0	0	0	0	0	1	0	1	1	1	CONFID.
538	2044	10	304.182	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
539	2044	11	304.033	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
540	2044	12	303.884	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
541	2045	1	303.731	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
542	2045	2	303.587	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
543	2045	3	303.443	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
544	2045	4	303.293	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
545	2045	5	303.143	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
546	2045	6	302.993	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
547	2045	7	302.843	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
548	2045	8	302.691	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
549	2045	9	302.541	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
550	2045	10	302.391	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.

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Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
551	2045	11	302.240	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
552	2045	12	302.089	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
553	2046	1	301.936	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
554	2046	2	301.790	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
555	2046	3	301.645	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
556	2046	4	301.494	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
557	2046	5	301.342	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
558	2046	6	301.191	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
559	2046	7	301.041	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
560	2046	8	300.888	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
561	2046	9	300.736	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
562	2046	10	300.584	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
563	2046	11	300.434	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
564	2046	12	300.282	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
565	2047	1	300.128	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
566	2047	2	299.983	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
567	2047	3	299.837	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
568	2047	4	299.686	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
569	2047	5	299.534	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
570	2047	6	299.384	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
571	2047	7	299.233	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
572	2047	8	299.081	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
573	2047	9	298.931	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
574	2047	10	298.781	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
575	2047	11	298.632	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
576	2047	12	298.483	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
577	2048	1	298.331	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
578	2048	2	298.185	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
579	2048	3	298.039	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
580	2048	4	297.892	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
581	2048	5	297.744	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
582	2048	6	297.598	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
583	2048	7	297.450	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
584	2048	8	297.303	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
585	2048	9	297.157	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
586	2048	10	297.012	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
587	2048	11	296.868	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
588	2048	12	296.723	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
589	2049	1	296.545	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
590	2049	2	296.398	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
591	2049	3	296.252	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
592	2049	4	296.109	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
593	2049	5	295.965	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
594	2049	6	295.823	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
595	2049	7	295.678	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
596	2049	8	295.536	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
597	2049	9	295.394	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
598	2049	10	295.254	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
599	2049	11	295.115	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
600	2049	12	294.974	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
601	2050	1	294.771	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
602	2050	2	294.623	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
603	2050	3	294.477	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
604	2050	4	294.338	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
605	2050	5	294.198	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
606	2050	6	294.060	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
607	2050	7	293.918	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
608	2050	8	293.780	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
609	2050	9	293.642	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
610	2050	10	293.507	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
611	2050	11	293.373	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
612	2050	12	293.236	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
613	2051	1	293.008	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
614	2051	2	292.859	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
615	2051	3	292.713	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
616	2051	4	292.578	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
617	2051	5	292.441	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
618	2051	6	292.307	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
619	2051	7	292.168	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
620	2051	8	292.036	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
621	2051	9	291.901	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
622	2051	10	291.771	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
623	2051	11	291.642	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
624	2051	12	291.508	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
625	2052	1	291.256	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
626	2052	2	291.106	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
627	2052	3	290.960	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
628	2052	4	290.828	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
629	2052	5	290.696	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
630	2052	6	290.566	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
631	2052	7	290.429	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
632	2052	8	290.302	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
633	2052	9	290.171	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
634	2052	10	290.046	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
635	2052	11	289.921	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
636	2052	12	289.792	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
637	2053	1	289.515	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
638	2053	2	289.364	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
639	2053	3	289.218	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
640	2053	4	289.090	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
641	2053	5	288.962	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
642	2053	6	288.835	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
643	2053	7	288.701	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
644	2053	8	288.579	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
645	2053	9	288.452	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
646	2053	10	288.331	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
647	2053	11	288.211	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
648	2053	12	288.085	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.
649	2054	1	287.785	1	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
650	2054	2	287.633	0	1	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	N_IMM	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d12	feb14on	aprsept11on	oct16on	PRICE
651	2054	3	287.487	0	0	1	0	0	0	0	0	0	0	0	1	0	1	CONFID.
652	2054	4	287.363	0	0	0	1	0	0	0	0	0	0	0	1	1	1	CONFID.
653	2054	5	287.238	0	0	0	0	1	0	0	0	0	0	0	1	1	1	CONFID.
654	2054	6	287.115	0	0	0	0	0	1	0	0	0	0	0	1	1	1	CONFID.
655	2054	7	286.985	0	0	0	0	0	0	1	0	0	0	0	1	1	1	CONDID.
656	2054	8	286.866	0	0	0	0	0	0	0	1	0	0	0	1	1	1	CONFID.
657	2054	9	286.743	0	0	0	0	0	0	0	0	1	0	0	1	1	1	CONFID.
658	2054	10	286.627	0	0	0	0	0	0	0	0	0	1	0	1	0	1	CONFID.
659	2054	11	286.512	0	0	0	0	0	0	0	0	0	0	0	1	0	1	CONFID.
660	2054	12	286.390	0	0	0	0	0	0	0	0	0	0	1	1	0	1	CONFID.

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables
 Model Estimation

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model LEU
 Dependent Variable LEU
 Label ENERGY SALES, OTHER ULTIMATE, LOG

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	6.000426	0.375027	885.37	<.0001
Error	212	0.089799	0.000424		
Corrected Total	228	6.090226			

Root MSE	0.02058	R-Square	0.98526
Dependent Mean	-0.05168	Adj R-Sq	0.98414
Coeff Var	-39.82739		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-2.19248	0.235675	-9.30	<.0001	Intercept
N_IMM	1	0.007068	0.000732	9.66	<.0001	SERVICE AREA POPULATION
d1	1	0.080965	0.006599	12.27	<.0001	BINARY VARIABLE-JANUARY
d2	1	-0.07577	0.006697	-11.31	<.0001	BINARY VARIABLE-FEBRUARY
d3	1	-0.08882	0.006696	-13.26	<.0001	BINARY VARIABLE-MARCH
d4	1	-0.18072	0.007054	-25.62	<.0001	BINARY VARIABLE-APRIL
d5	1	-0.27240	0.007051	-38.64	<.0001	BINARY VARIABLE-MAY
d6	1	-0.35248	0.007054	-49.97	<.0001	BINARY VARIABLE-JUNE
d7	1	-0.30945	0.007070	-43.77	<.0001	BINARY VARIABLE-JULY
d8	1	-0.22057	0.007054	-31.27	<.0001	BINARY VARIABLE-AUGUST
d9	1	-0.14459	0.007067	-20.46	<.0001	BINARY VARIABLE-SEPTEMBER
d10	1	-0.04713	0.006677	-7.06	<.0001	BINARY VARIABLE-OCTOBER
d12	1	0.085013	0.006679	12.73	<.0001	BINARY VARIABLE-DECEMBER

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Exogenous Variables
 Model Estimation

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
feb14on	1	-0.02818	0.006456	-4.36	<.0001	BINARY VARIABLE - FEBRUARY 2014 ON
aprsept11on	1	-0.07541	0.005343	-14.11	<.0001	BINARY VARIABLE - APRIL THROUGH SEPTEMBER 2011 ON
oct16on	1	-0.02850	0.005670	-5.03	<.0001	BINARY VARIABLE - OCTOBER 2016 ON
PU36	1	-0.01188	0.003352	-3.54	0.0005	REAL OTHER RETAIL ELECTRIC PRICE, 36 MONTH MOVING AVERAGE

Durbin-Watson	1.418458
Number of Observations	229
First-Order Autocorrelation	0.289201

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Model Residuals

time		Residual Values Sum
2000.000000	***	-0.016422
2000.0833333	*	-0.004692
2000.1666667	**	-0.011595
2000.2500000	*****	-0.023557
2000.3333333	*	-0.005312
2000.4166667	**	0.010438
2000.5000000		0.002177
2000.5833333	****	-0.019345
2000.6666667	*****	-0.022795
2000.7500000	*****	-0.022988
2000.8333333	*****	-0.028273
2000.9166667	*****	-0.026380
2001.0000000	***	-0.013575
2001.0833333	*	-0.004104
2001.1666667	*	-0.004092
2001.2500000	****	-0.018484
2001.3333333	*	0.005580
2001.4166667	*****	0.024143
2001.5000000	**	0.009612
2001.5833333		0.000503
2001.6666667	*****	-0.030201
2001.7500000	***	0.013934
2001.8333333	**	-0.007961
2001.9166667	***	-0.017140
2002.0000000		-0.000486
2002.0833333	*	0.004753
2002.1666667	****	0.021867
2002.2500000	*	-0.005681
2002.3333333		0.000208
2002.4166667	*****	0.027202
2002.5000000	***	0.015593
2002.5833333	*	0.006316
2002.6666667	*	-0.003830
2002.7500000		0.000454
2002.8333333	*****	-0.025234
2002.9166667	***	-0.015814
2003.0000000	***	-0.013021
2003.0833333	*	0.004430
2003.1666667	*	-0.006342
2003.2500000	***	-0.016092
2003.3333333		-0.000411
2003.4166667	****	-0.018191
2003.5000000		0.000204
2003.5833333	*	0.005287
2003.6666667	*	-0.007264
2003.7500000	**	-0.010293
2003.8333333	*****	0.058657
2003.9166667	***	-0.015712
2004.0000000	****	-0.018030

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Model Residuals

2004.0833333		0.001953
2004.1666667		-0.000914
2004.2500000	***	-0.016417
2004.3333333	**	0.009522
2004.4166667	*****	0.034691
2004.5000000	**	0.009667
2004.5833333		0.001493
2004.6666667	*	-0.004645
2004.7500000	**	-0.009541
2004.8333333	***	-0.014558
2004.9166667	**	-0.011639
2005.0000000	*	0.005667
2005.0833333	***	0.017239
2005.1666667	*****	0.026016
2005.2500000	*	0.002904
2005.3333333	***	0.015783
2005.4166667	****	0.019196
2005.5000000	*****	0.022943
2005.5833333	***	0.017443
2005.6666667	***	0.014613
2005.7500000	**	0.007706
2005.8333333		-0.000042
2005.9166667	*	0.005365
2006.0000000		-0.000201
2006.0833333	****	0.020333
2006.1666667	***	0.016230
2006.2500000	**	0.009371
2006.3333333	*****	0.025028
2006.4166667	*****	0.042658
2006.5000000	*****	0.031495
2006.5833333	**	0.010214
2006.6666667		0.001661
2006.7500000		0.002028
2006.8333333		-0.001705
2006.9166667		0.000463
2007.0000000	***	-0.012511
2007.0833333	***	0.015144
2007.1666667	***	0.013892
2007.2500000	*	0.003084
2007.3333333	**	0.008496
2007.4166667	*****	0.029731
2007.5000000	*****	0.050208
2007.5833333	**	0.007533
2007.6666667		0.001825
2007.7500000	**	-0.007928
2007.8333333		-0.000667
2007.9166667	*	0.003531
2008.0000000	**	0.007721
2008.0833333	****	0.018565
2008.1666667	***	0.014552
2008.2500000	*	-0.003502
2008.3333333	*	0.004742

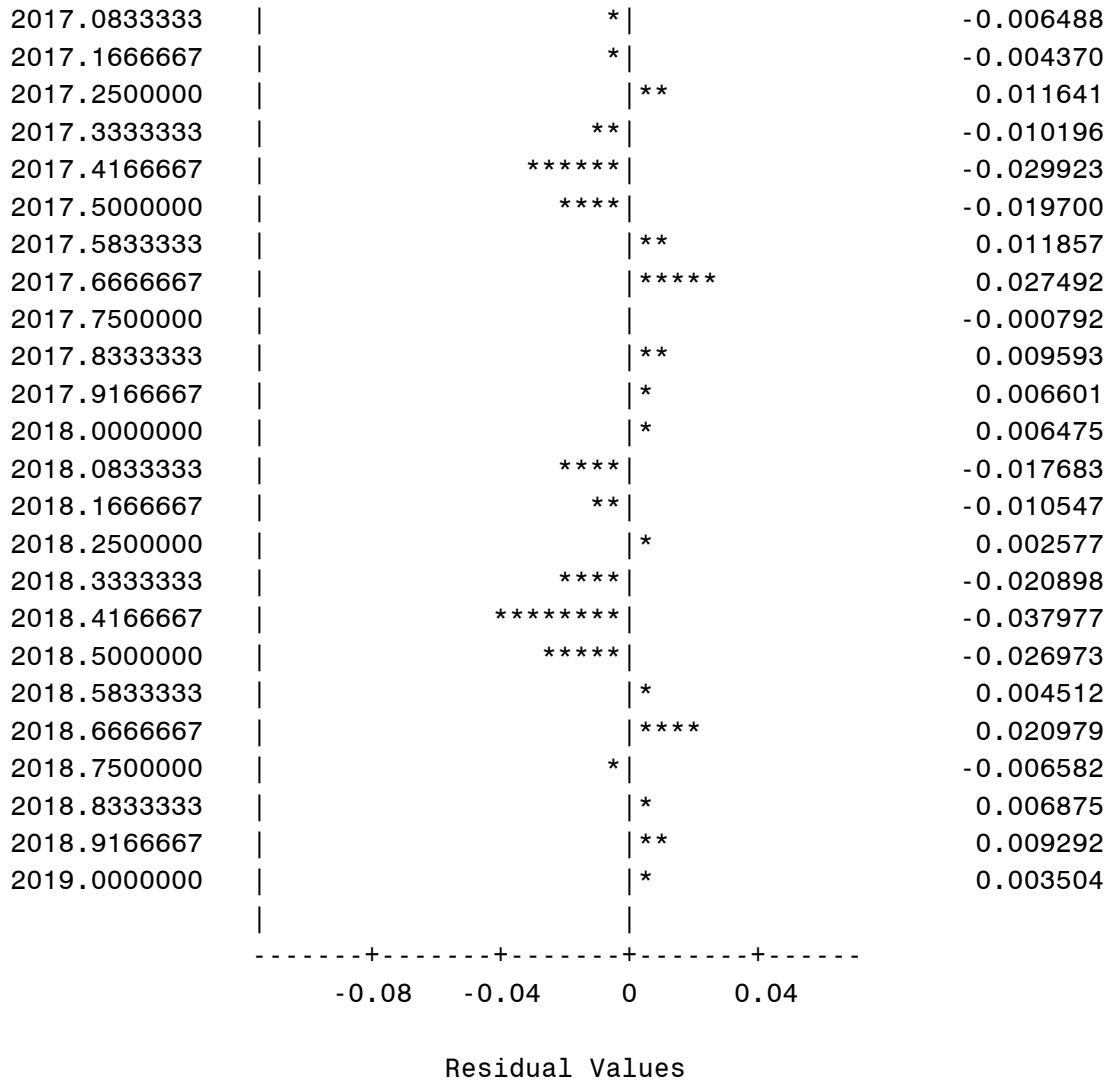
Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Model Residuals

2008.4166667	|	|	*****	0.028956
2008.5000000	|	|	****	0.019011
2008.5833333	|	|	**	0.010469
2008.6666667	|	|	*	-0.006655
2008.7500000	|	|	*	-0.003216
2008.8333333	|	|	|	-0.001089
2008.9166667	|	|	****	-0.020923
2009.0000000	|	|	**	0.012115
2009.0833333	|	|	***	0.014240
2009.1666667	|	|	*	0.005399
2009.2500000	|	|	*	-0.005931
2009.3333333	|	|	*****	-0.027288
2009.4166667	|	|	**	0.011652
2009.5000000	|	|	**	-0.011030
2009.5833333	|	|	***	-0.015236
2009.6666667	|	|	*****	-0.026337
2009.7500000	|	|	****	-0.021044
2009.8333333	|	|	*****	-0.026199
2009.9166667	|	|	****	-0.021206
2010.0000000	|	|	*****	-0.026546
2010.0833333	|	|	***	-0.013688
2010.1666667	|	|	***	-0.012899
2010.2500000	|	|	*****	-0.023464
2010.3333333	|	|	****	-0.020523
2010.4166667	|	|	*	-0.003822
2010.5000000	|	|	***	-0.014324
2010.5833333	|	|	*****	-0.093468
2010.6666667	|	|	*****	-0.107844
2010.7500000	|	|	*****	0.069217
2010.8333333	|	|	*****	-0.041840
2010.9166667	|	|	***	0.017124
2011.0000000	|	|	*	0.004613
2011.0833333	|	|	****	-0.017978
2011.1666667	|	|	*	-0.006709
2011.2500000	|	|	***	0.012888
2011.3333333	|	|	|	-0.001850
2011.4166667	|	|	***	-0.014764
2011.5000000	|	|	**	-0.008939
2011.5833333	|	|	**	0.008960
2011.6666667	|	|	****	0.020891
2011.7500000	|	|	***	-0.016727
2011.8333333	|	|	**	0.010450
2011.9166667	|	|	***	0.015661
2012.0000000	|	|	**	0.009441
2012.0833333	|	|	**	-0.011670
2012.1666667	|	|	*****	-0.037153
2012.2500000	|	|	**	0.012160
2012.3333333	|	|	*****	0.041287
2012.4166667	|	|	****	-0.017797
2012.5000000	|	|	*	-0.003284
2012.5833333	|	|	***	0.015878
2012.6666667	|	|	*****	0.034416

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Model Residuals

2012.7500000	|	|	*	0.005737
2012.8333333	|	|	****	0.018823
2012.9166667	|	|	***	0.017012
2013.0000000	|	|	**	0.010520
2013.0833333	|	|	*	-0.007170
2013.1666667	|	|	*	0.004478
2013.2500000	|	|	*****	0.024090
2013.3333333	|	|		-0.002246
2013.4166667	|	|	****	-0.021739
2013.5000000	|	|	***	-0.015763
2013.5833333	|	|	**	0.009597
2013.6666667	|	|	*****	0.022551
2013.7500000	|	|	**	-0.009595
2013.8333333	|	|	*	0.003760
2013.9166667	|	|		0.000704
2014.0000000	|	|		0.001382
2014.0833333	|	|	*	0.004101
2014.1666667	|	|	**	0.009999
2014.2500000	|	|	****	0.021131
2014.3333333	|	|	*	0.004900
2014.4166667	|	|	****	-0.018391
2014.5000000	|	|	**	-0.010054
2014.5833333	|	|	*	0.005577
2014.6666667	|	|	*****	0.027700
2014.7500000	|	|		0.000575
2014.8333333	|	|	***	0.014150
2014.9166667	|	|	****	0.020833
2015.0000000	|	|	***	0.015304
2015.0833333	|	|		-0.000945
2015.1666667	|	|	*	-0.005821
2015.2500000	|	|	***	0.014722
2015.3333333	|	|	**	-0.011827
2015.4166667	|	|	*****	-0.026800
2015.5000000	|	|	***	-0.016948
2015.5833333	|	|	**	0.012021
2015.6666667	|	|	*****	0.024918
2015.7500000	|	|	*	-0.004040
2015.8333333	|	|	*	0.004349
2015.9166667	|	|	***	0.012582
2016.0000000	|	|	*	0.006971
2016.0833333	|	|	***	-0.016340
2016.1666667	|	|	**	-0.011992
2016.2500000	|	|		-0.001441
2016.3333333	|	|	***	-0.014993
2016.4166667	|	|	*****	-0.039263
2016.5000000	|	|	*****	-0.033896
2016.5833333	|	|		0.000391
2016.6666667	|	|	***	0.012525
2016.7500000	|	|	***	0.013095
2016.8333333	|	|	****	0.020909
2016.9166667	|	|	****	0.019647
2017.0000000	|	|	***	0.017078

Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Model Residuals



Indiana Michigan Power Company - Michigan
 Other Ultimate Energy Sales
 Actual and Forecast

YEAR	ENERGY SALES	GROWTH RATE
2000	11.9039	.
2001	11.9697	0.6
2002	12.0408	0.6
2003	12.0585	0.1
2004	12.0480	-0.1
2005	12.1490	0.8
2006	12.1098	-0.3
2007	12.0884	-0.2
2008	12.0544	-0.3
2009	11.7727	-2.3
2010	11.5226	-2.1
2011	11.2765	-2.1
2012	11.1871	-0.8
2013	11.1279	-0.5
2014	11.0068	-1.1
2015	10.9049	-0.9
2016	10.7698	-1.2
2017	10.6509	-1.1
2018	10.5722	-0.7
2019	10.5193	-0.5
2020	10.3731	-1.4
2021	10.2201	-1.5
2022	10.0787	-1.4
2023	9.9689	-1.1
2024	9.8721	-1.0
2025	9.7768	-1.0
2026	9.6798	-1.0
2027	9.5855	-1.0
2028	9.4932	-1.0
2029	9.3996	-1.0
2030	9.3044	-1.0
2031	9.2146	-1.0
2032	9.1250	-1.0
2033	9.0374	-1.0
2034	8.9492	-1.0
2035	8.8609	-1.0
2036	8.7691	-1.0
2037	8.6746	-1.1
2038	8.5824	-1.1
2039	8.4909	-1.1
2040	8.4037	-1.0
2041	8.3165	-1.0
2042	8.2227	-1.1
2043	8.1206	-1.2
2044	8.0148	-1.3
2045	7.9088	-1.3
2046	7.8018	-1.4
2047	7.6945	-1.4

Indiana Michigan Power Company - Michigan
Other Ultimate Energy Sales
Actual and Forecast

YEAR	ENERGY SALES	GROWTH RATE
2048	7.58832	-1.4
2049	7.48231	-1.4
2050	7.37647	-1.4
2051	7.27178	-1.4
2052	7.16899	-1.4
2053	7.06820	-1.4
2054	6.96921	-1.4

LONG-TERM WHOLESALE ENERGY

Indiana Michigan Power Company-Indiana and Michigan
Wholesale Energy

**SEE CONFIDENTIAL SECTION FOR SHORT-TERM AND LONG-TERM
WHOLESALE ENERGY INPUT DATA, MODELS AND FORECAST**

DEMAND-SIDE MANAGEMENT

**Indiana Michigan and Indiana and Michigan Jurisdictions
DSM/Energy Efficiency Included in Load Forecast
Energy (GWh) and Coincident Peak Demand (MW)**

Year	I&M DSM/EE		I&M - Indiana DSM/EE		I&M - Michigan DSM/EE	
	Energy	Summer* Demand	Energy	Summer* Demand	Energy	Summer* Demand
2019	83.8	18.0	73.1	16.3	10.7	1.7
2020	167.7	37.0	146.5	33.4	21.2	3.6
2021	242.3	53.6	213.1	48.6	29.2	5.0
2022	238.6	50.1	213.3	46.6	25.2	3.6
2023	175.5	30.9	154.4	29.2	21.2	1.7
2024	99.1	12.0	82.8	11.2	16.3	0.8
2025	43.4	3.5	31.0	2.9	12.4	0.6
2026	33.2	1.7	21.6	1.1	11.6	0.6
2027	33.4	1.7	22.0	1.1	11.4	0.6
2028	33.9	1.7	22.6	1.1	11.3	0.6
2029	34.9	1.7	23.5	1.2	11.4	0.6
2030	26.9	1.3	17.5	0.9	9.4	0.5
2031	10.9	0.5	5.4	0.3	5.5	0.3
2032	2.2	0.1	0.0	0.0	2.2	0.1
2033	0.0	0.0	0.0	0.0	0.0	0.0
2034	0.0	0.0	0.0	0.0	0.0	0.0
2035	0.0	0.0	0.0	0.0	0.0	0.0
2036	0.0	0.0	0.0	0.0	0.0	0.0
2037	0.0	0.0	0.0	0.0	0.0	0.0
2038	0.0	0.0	0.0	0.0	0.0	0.0

***Demand coincident with Company's seasonal peak demand.**

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2019	4	21.8	19.9	4,462	3,763
2019	5	20.6	18.9	4,664	3,905
2019	6	15.9	14.3	7,781	6,976
2019	7	11.4	9.6	8,544	7,623
2019	8	11.8	10.6	7,604	6,616
2019	9	18.2	16.8	6,453	5,741
2019	10	19.4	18.0	4,666	3,838
2019	11	18.0	16.3	5,913	5,013
2019	12	20.4	18.9	8,543	7,467
2020	1	9.1	7.7	19,933	17,663
2020	2	11.9	10.6	16,805	14,842
2020	3	19.5	17.7	15,264	13,332
2020	4	46.4	42.3	8,501	7,146
2020	5	43.8	40.0	8,813	7,344
2020	6	33.1	29.9	15,538	13,925
2020	7	22.5	19.0	17,130	15,271
2020	8	22.5	20.1	15,064	13,085
2020	9	37.3	34.5	12,714	11,304
2020	10	40.1	37.0	8,783	7,275
2020	11	37.0	33.4	11,671	9,947
2020	12	42.2	38.9	17,474	15,344
2021	1	19.2	16.5	29,203	26,026
2021	2	27.5	24.7	23,939	21,268
2021	3	41.3	37.6	22,002	19,345
2021	4	68.4	62.4	12,240	10,376
2021	5	64.6	59.0	12,630	10,620
2021	6	46.6	42.3	22,406	20,175
					2,231

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)			
		I&M	Indiana* Michigan*	I&M	Indiana Michigan		
2021	7	32.4	27.6	4.7	24,695	22,121	2,573
2021	8	32.4	29.1	3.3	21,694	18,963	2,732
2021	9	54.1	50.1	4.1	18,320	16,367	1,952
2021	10	58.2	53.8	4.4	12,555	10,542	2,013
2021	11	53.6	48.6	5.0	17,123	14,741	2,382
2021	12	61.2	56.6	4.6	25,503	22,552	2,951
2022	1	28.7	24.9	3.7	28,979	26,160	2,819
2022	2	39.5	35.6	3.9	23,845	21,448	2,398
2022	3	60.8	55.5	5.3	22,013	19,650	2,363
2022	4	67.1	61.8	5.2	12,409	10,664	1,744
2022	5	63.5	58.5	5.0	12,474	10,738	1,736
2022	6	45.9	42.1	3.8	21,600	19,733	1,867
2022	7	32.3	28.1	4.3	23,644	21,565	2,080
2022	8	30.3	28.0	2.3	20,728	18,595	2,134
2022	9	51.1	48.1	3.0	17,944	16,178	1,765
2022	10	54.7	51.5	3.2	12,451	10,771	1,679
2022	11	50.1	46.6	3.6	17,110	15,036	2,074
2022	12	57.9	54.3	3.6	25,391	22,809	2,582
2023	1	28.9	25.8	3.0	21,442	19,057	2,385
2023	2	38.0	34.7	3.3	17,757	15,727	2,030
2023	3	59.8	55.2	4.6	16,743	14,688	2,055
2023	4	46.5	42.7	3.9	10,009	8,390	1,619
2023	5	44.1	40.5	3.6	9,622	8,131	1,491
2023	6	32.6	29.7	2.9	14,727	13,294	1,433
2023	7	24.6	20.9	3.7	15,887	14,403	1,485
2023	8	21.5	20.1	1.4	14,138	12,654	1,484
2023	9	33.9	32.3	1.7	12,791	11,282	1,509

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2023	10	33.8	32.1	9,963	8,371
2023	11	30.9	29.2	13,387	11,514
2023	12	35.8	33.9	19,079	16,852
2024	1	17.1	14.7	12,460	10,644
2024	2	30.7	27.9	10,707	9,104
2024	3	34.4	31.1	10,086	8,488
2024	4	24.6	22.0	6,378	5,061
2024	5	23.4	20.9	5,728	4,526
2024	6	17.9	15.8	7,061	6,020
2024	7	14.4	11.5	7,430	6,393
2024	8	8.6	7.7	6,898	5,825
2024	9	12.4	11.6	6,582	5,454
2024	10	13.1	12.3	6,176	4,878
2024	11	12.0	11.2	8,303	6,819
2024	12	13.8	12.9	11,277	9,559
2025	1	10.4	8.5	4,771	3,443
2025	2	16.3	14.4	4,080	2,939
2025	3	22.3	19.9	4,179	2,987
2025	4	7.0	5.3	3,330	2,301
2025	5	6.7	5.1	3,086	2,135
2025	6	5.7	4.3	3,058	2,241
2025	7	7.5	5.3	3,110	2,301
2025	8	3.0	2.3	3,069	2,230
2025	9	3.6	3.0	3,093	2,209
2025	10	3.7	3.1	3,287	2,265
2025	11	3.5	2.9	3,807	2,678
2025	12	4.0	3.3	4,507	3,235

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2026	1	5.1	3.7	3,368	2,193
2026	2	5.4	4.0	2,916	1,898
2026	3	6.5	4.9	3,089	2,011
2026	4	3.6	2.4	2,810	1,829
2026	5	3.5	2.3	2,636	1,716
2026	6	3.4	2.2	2,282	1,486
2026	7	6.4	4.1	2,258	1,470
2026	8	1.9	1.2	2,341	1,524
2026	9	1.7	1.1	2,457	1,600
2026	10	1.6	1.1	2,810	1,830
2026	11	1.7	1.1	2,995	1,950
2026	12	1.8	1.2	3,272	2,130
2027	1	4.2	2.7	3,378	2,227
2027	2	3.4	2.2	2,926	1,929
2027	3	3.5	2.3	3,102	2,045
2027	4	3.7	2.4	2,820	1,859
2027	5	3.6	2.3	2,646	1,744
2027	6	3.4	2.3	2,290	1,510
2027	7	6.4	4.2	2,264	1,493
2027	8	1.9	1.2	2,352	1,550
2027	9	1.7	1.1	2,466	1,626
2027	10	1.6	1.1	2,819	1,858
2027	11	1.7	1.1	3,008	1,983
2027	12	1.8	1.2	3,284	2,165
2028	1	4.2	2.8	3,425	2,284
2028	2	3.4	2.2	3,073	2,050
2028	3	3.6	2.3	3,145	2,098

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2028	4	3.7	2.5	2,856	1,905
2028	5	3.6	2.4	2,686	1,792
2028	6	3.5	2.3	2,322	1,549
2028	7	6.5	4.3	2,294	1,530
2028	8	1.9	1.3	2,386	1,591
2028	9	1.7	1.2	2,498	1,666
2028	10	1.7	1.1	2,859	1,907
2028	11	1.7	1.1	3,049	2,034
2028	12	1.8	1.2	3,325	2,218
2029	1	4.2	2.8	3,534	2,380
2029	2	3.4	2.3	3,058	2,059
2029	3	3.6	2.4	3,239	2,182
2029	4	3.8	2.6	2,945	1,984
2029	5	3.7	2.5	2,768	1,865
2029	6	3.6	2.4	2,391	1,610
2029	7	6.7	4.5	2,366	1,593
2029	8	1.9	1.3	2,459	1,656
2029	9	1.8	1.2	2,573	1,733
2029	10	1.7	1.1	2,949	1,986
2029	11	1.7	1.2	3,143	2,117
2029	12	1.9	1.3	3,427	2,308
2030	1	4.4	2.9	2,726	1,775
2030	2	3.5	2.4	2,359	1,536
2030	3	4.1	2.8	2,498	1,626
2030	4	2.9	1.9	2,274	1,480
2030	5	2.9	1.9	2,136	1,391
2030	6	2.8	1.8	1,843	1,200

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)		
		I&M	Indiana* Michigan*	I&M	Indiana Michigan	
2030	7	5.2	3.4	1,827	1,189	638
2030	8	1.5	1.0	1,896	1,234	662
2030	9	1.4	0.9	1,987	1,293	693
2030	10	1.3	0.9	2,275	1,481	794
2030	11	1.3	0.9	2,423	1,578	846
2030	12	1.4	0.9	2,646	1,722	923
2031	1	3.4	2.2	1,105	547	558
2031	2	2.7	1.8	957	473	483
2031	3	2.9	1.9	1,013	501	512
2031	4	1.2	0.6	922	456	466
2031	5	1.2	0.6	865	428	437
2031	6	1.1	0.6	748	370	378
2031	7	2.1	1.0	741	366	374
2031	8	0.6	0.3	768	380	388
2031	9	0.6	0.3	806	399	407
2031	10	0.5	0.3	922	456	466
2031	11	0.5	0.3	982	486	496
2031	12	0.6	0.3	1,073	531	542
2032	1	1.4	0.7	218	0	218
2032	2	1.1	0.5	196	0	196
2032	3	1.2	0.6	200	0	200
2032	4	0.2	0.0	182	0	182
2032	5	0.2	0.0	171	0	171
2032	6	0.2	0.0	148	0	148
2032	7	0.4	0.0	146	0	146
2032	8	0.1	0.0	152	0	152
2032	9	0.1	0.0	159	0	159

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2032	10	0.1	0.0	182	0
2032	11	0.1	0.0	194	0
2032	12	0.1	0.0	212	0
2033	1	0.3	0.0	0	0
2033	2	0.2	0.0	0	0
2033	3	0.2	0.0	0	0
2033	4	0.0	0.0	0	0
2033	5	0.0	0.0	0	0
2033	6	0.0	0.0	0	0
2033	7	0.0	0.0	0	0
2033	8	0.0	0.0	0	0
2033	9	0.0	0.0	0	0
2033	10	0.0	0.0	0	0
2033	11	0.0	0.0	0	0
2033	12	0.0	0.0	0	0
2034	1	0.0	0.0	0	0
2034	2	0.0	0.0	0	0
2034	3	0.0	0.0	0	0
2034	4	0.0	0.0	0	0
2034	5	0.0	0.0	0	0
2034	6	0.0	0.0	0	0
2034	7	0.0	0.0	0	0
2034	8	0.0	0.0	0	0
2034	9	0.0	0.0	0	0
2034	10	0.0	0.0	0	0
2034	11	0.0	0.0	0	0
2034	12	0.0	0.0	0	0

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2035	1	0.0	0.0	0	0
2035	2	0.0	0.0	0	0
2035	3	0.0	0.0	0	0
2035	4	0.0	0.0	0	0
2035	5	0.0	0.0	0	0
2035	6	0.0	0.0	0	0
2035	7	0.0	0.0	0	0
2035	8	0.0	0.0	0	0
2035	9	0.0	0.0	0	0
2035	10	0.0	0.0	0	0
2035	11	0.0	0.0	0	0
2035	12	0.0	0.0	0	0
2036	1	0.0	0.0	0	0
2036	2	0.0	0.0	0	0
2036	3	0.0	0.0	0	0
2036	4	0.0	0.0	0	0
2036	5	0.0	0.0	0	0
2036	6	0.0	0.0	0	0
2036	7	0.0	0.0	0	0
2036	8	0.0	0.0	0	0
2036	9	0.0	0.0	0	0
2036	10	0.0	0.0	0	0
2036	11	0.0	0.0	0	0
2036	12	0.0	0.0	0	0
2037	1	0.0	0.0	0	0
2037	2	0.0	0.0	0	0
2037	3	0.0	0.0	0	0

Indiana Michigan Power Company
Monthly DSM Included in Load Forecast Peak Demand (MW) and Energy (MWh)

Year	Month	Peak Demand (MW)		Energy (MWh)	
		I&M	Indiana* Michigan*	I&M	Indiana Michigan
2037	4	0.0	0.0	0	0
2037	5	0.0	0.0	0	0
2037	6	0.0	0.0	0	0
2037	7	0.0	0.0	0	0
2037	8	0.0	0.0	0	0
2037	9	0.0	0.0	0	0
2037	10	0.0	0.0	0	0
2037	11	0.0	0.0	0	0
2037	12	0.0	0.0	0	0
2038	1	0.0	0.0	0	0
2038	2	0.0	0.0	0	0
2038	3	0.0	0.0	0	0
2038	4	0.0	0.0	0	0
2038	5	0.0	0.0	0	0
2038	6	0.0	0.0	0	0
2038	7	0.0	0.0	0	0
2038	8	0.0	0.0	0	0
2038	9	0.0	0.0	0	0
2038	10	0.0	0.0	0	0
2038	11	0.0	0.0	0	0
2038	12	0.0	0.0	0	0

*Demand coincident with Company's monthly peak demand.

Indiana Michigan Power Company - Michigan
DSM/EE Included in Load Forecast

Incremental Energy (kWh)	current filed programs														Total			
	R&C - Home Energy Products	Res - Appliance Recycling	Res - Low Income EE Assistance	Res - HVAC Rebates	Res - Education	Res - Online Energy Audit	Res - Multi- Family	Res - New Construction / Education	Res - Other / Weatherpool EECO	Res - Pilot / Weatherpool g	C&I - Prescriptive	C&I - Custom	C&I - Education	C&I Direct Install (Audit)		ROC/I - IWVC Pilot	Home Energy Management / Other	Res - Home Energy Engagement	C&I Pilot / EECO
2008	690	3,623	190,000	288,000	70,000	460,000	4,000	340,000	80,000	7,660,000	4,440,000	260,000	60,000	542,064	13,000	546,377		13,000
2009	9,670,000	590,000	1,040,000	578,415	17,303,847	19,328,191	617,119	477,637	8,432,371	11,619,760	276,295	276,295	808,741	12,138,924	25,324,410	12,572,861	60,296	546,377
2010	5,797,473	615,560	687,609	661,790	2,940,075	1,732,040	1,290,029	44,479	7,360,903	8,867,487	27,570	456,603	808,741	12,572,861	16,751,789	1,303,551	525,460	16,751,789
2011	13,028,283	666,484	882,678	733,131	5,542,425	1,205,729	366,016	32,544	10,665,391	7,462,637	358,649	1,571,641	1,358,671	6,950,823	30,947,700	2,591,507	102,529	30,947,700
2012	14,553,201	666,484	882,678	733,131	5,542,425	1,205,729	366,016	32,544	10,665,391	7,462,637	358,649	1,571,641	1,358,671	6,950,823	34,570,000	2,591,507	102,529	34,570,000
2013	2,782,700	666,484	882,678	733,131	5,542,425	1,205,729	366,016	32,544	10,665,391	7,462,637	358,649	1,571,641	1,358,671	6,950,823	31,574,906	2,591,507	102,529	31,574,906
2014	4,049,765	666,484	882,678	733,131	5,542,425	1,205,729	366,016	32,544	10,665,391	7,462,637	358,649	1,571,641	1,358,671	6,950,823	35,644,013	2,591,507	102,529	35,644,013
2015	6,392,047	666,484	882,678	733,131	5,542,425	1,205,729	366,016	32,544	10,665,391	7,462,637	358,649	1,571,641	1,358,671	6,950,823	38,893,905	2,591,507	102,529	38,893,905
2016	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	31,625,495	1,405,691	1,405,691	31,625,495
2017	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	35,335,241	1,405,691	1,405,691	35,335,241
2018	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	35,335,241	1,405,691	1,405,691	35,335,241
2019	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	35,335,241	1,405,691	1,405,691	35,335,241
2020	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	35,335,241	1,405,691	1,405,691	35,335,241
2021	5,311,934	557,840	196,778	2,245,000	399,935	2,245,000	2,245,000	437,962	6,770,827	10,321,143	498,547	498,547	3,361,432	3,828,153	35,335,241	1,405,691	1,405,691	35,335,241

Peak (kW)	current filed programs														Total			
	R&C - Home Energy Products	Res - Appliance Recycling	Res - Low Income EE Assistance	Res - HVAC Rebates	Res - Education	Res - Online Energy Audit	Res - Multi- Family	Res - New Construction / Education	Res - Other / Weatherpool EECO	Res - Pilot / Weatherpool g	C&I - Prescriptive	C&I - Custom	C&I - Education	C&I Direct Install (Audit)		ROC/I - IWVC Pilot	Home Energy Management / Other	Res - Home Energy Engagement	C&I Pilot / EECO
2008	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2009	2,760	170	300	85	170	130	1	100	20	2,190	1,270	70	20	20	20	-	-	1
2010	1,656	165	176	106	137	130	1	100	20	2,965	1,270	70	20	20	20	-	-	7,336
2011	3,722	196	189	106	137	130	1	100	20	4,944	1,270	70	20	20	20	-	-	4,786
2012	4,158	189	189	106	137	130	1	100	20	5,523	1,270	70	20	20	20	-	-	8,842
2013	353	61	16	240	239	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2014	554	91	19	243	137	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2015	747	107	19	62	137	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2016	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2017	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2018	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2019	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2020	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877
2021	640	65	23	192	91	113	1536	176	113	4,970	909	94	114	114	114	430	3,468	9,877

PEAK DEMAND

**Indiana Michigan Power Company
Summer Peak Demand (MW) Forecast by Sector**

Summer	I&M				Other		
	Total	Residential	Commercial	Industrial	Retail	Wholesale	
2019	4,293	1,391	977	1,149	12	763	
2020	3,919	1,372	958	1,138	12	439	
2021	3,911	1,361	945	1,153	12	440	
2022	3,931	1,358	946	1,174	12	441	
2023	3,934	1,364	951	1,168	12	439	
2024	3,957	1,375	965	1,163	12	441	
2025	3,960	1,379	963	1,164	12	441	
2026	3,962	1,381	959	1,167	12	443	
2027	3,961	1,382	956	1,167	12	444	
2028	3,983	1,387	958	1,179	12	446	
2029	3,987	1,391	953	1,184	12	447	
2030	3,996	1,396	949	1,190	12	448	
2031	4,008	1,402	946	1,197	12	450	
2032	4,031	1,413	946	1,207	12	452	
2033	4,034	1,414	942	1,214	12	453	
2034	4,053	1,425	940	1,222	12	454	
2035	4,067	1,430	939	1,229	12	456	
2036	4,090	1,441	941	1,237	12	459	
2037	4,091	1,442	938	1,239	12	459	
2038	4,105	1,449	938	1,244	12	461	

**Indiana Michigan Power Company
Winter Peak Demand (MW) Forecast by Sector**

Winter	I&M					Other	
	Total	Residential	Commercial	Industrial	Retail	Wholesale	
2019/20	3,582	1,079	734	1,109	13	648	
2020/21	3,362	1,072	730	1,131	13	416	
2021/22	3,378	1,069	730	1,149	13	416	
2022/23	3,381	1,066	734	1,150	13	417	
2023/24	3,395	1,076	743	1,145	13	419	
2024/25	3,412	1,086	747	1,147	13	419	
2025/26	3,413	1,087	743	1,149	13	420	
2026/27	3,410	1,087	740	1,149	13	421	
2027/28	3,418	1,087	738	1,157	13	423	
2028/29	3,412	1,077	732	1,166	13	424	
2029/30	3,415	1,078	728	1,172	13	425	
2030/31	3,423	1,081	725	1,178	13	427	
2031/32	3,430	1,082	722	1,185	13	428	
2032/33	3,437	1,085	719	1,192	13	429	
2033/34	3,433	1,074	713	1,202	13	431	
2034/35	3,442	1,077	712	1,208	13	433	
2035/36	3,450	1,080	710	1,213	13	434	
2036/37	3,455	1,083	708	1,216	13	435	
2037/38	3,463	1,087	707	1,220	13	436	
2038/39	3,471	1,089	706	1,225	13	438	

Indiana Michigan Power Company
Peak Demand Models by Sector
Model Input Glossary

Variable-Hourly Load

CDD65-Cooling Degree Days based on 65 Degrees F

CDD70-Cooling Degree Days based on 70 Degrees F

CDD65WkEnd-Cooling Degree Days based on 65 Degrees F, Weekends

CDD70WkEnd-Cooling Degree Days based on 75 Degrees F, Weekends

Summer Fuzzy-Summer Days Variable

Winter Fuzzy-Winter Days Variable

HLight-Hours of Sunlight

DST-Daylight Savings Time

HDD50-Heating Degree Days based on 50 Degrees F

HDD55-Heating Degree Days based on 55 Degrees F

HDD65-Heating Degree Days based on 65 Degrees F

HDD65WkEnd-Heating Degree Days based on 65 Degrees F

Weekend-Binary Variable for Weekends

January-Binary Variable January

February-Binary Variable February

March-Binary Variable March

April-Binary Variable April

May-Binary Variable May

June-Binary Variable June

July-Binary Variable July

August-Binary Variable August

September-Binary Variable September

October-Binary Variable October

November-Binary Variable November

WkDay-Week Day Binary Variable

WkEnd- Week End Binary Variable

MajorHolidays-Binary Variable for Major Holidays

Constant-Intercept

TWT-Tuesday, Wednesday and Thursday Binary Variable

Monday-Binary Variable Monday

Indiana Michigan Power Company - Indiana
Residential Cooling Peak Demand Model Coefficients

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	6.861	0.816	-1.943	1.922	53.079	-12.769	1.321	-3.701
Hour2	5.237	1.205	-0.427	0.750	48.829	-10.290	1.081	-3.712
Hour3	4.577	1.398	-0.885	1.054	41.980	-7.722	0.824	-3.297
Hour4	4.000	1.449	-0.837	0.913	36.996	-6.450	0.695	-3.015
Hour5	3.488	1.471	-0.677	0.777	33.337	-5.520	0.608	-2.964
Hour6	3.075	1.450	-0.802	0.824	29.308	-4.347	0.483	-2.492
Hour7	2.572	1.450	-0.520	0.603	25.613	-3.597	0.408	-2.288
Hour8	2.563	1.157	-0.581	0.670	24.686	-3.630	0.397	-1.920
Hour9	3.201	0.255	-1.465	1.277	23.288	-6.158	0.642	-2.045
Hour10	3.206	0.545	-0.039	0.235	26.108	-7.931	0.814	-2.143
Hour11	3.603	1.050	1.225	-0.627	35.214	-9.841	1.012	-2.606
Hour12	4.687	1.245	1.368	-0.652	44.278	-13.080	1.352	-3.577
Hour13	5.929	1.303	1.764	-0.714	54.785	-17.802	1.849	-4.939
Hour14	7.221	1.256	2.125	-0.870	65.476	-23.110	2.417	-6.825
Hour15	8.377	0.816	2.912	-1.362	73.936	-29.098	3.046	-8.286
Hour16	9.629	0.293	3.311	-1.661	83.743	-33.602	3.497	-8.721
Hour17	10.971	-0.349	3.800	-2.113	94.821	-36.397	3.762	-7.469
Hour18	12.194	-1.072	3.282	-1.923	101.424	-36.233	3.724	-4.026
Hour19	13.054	-1.481	1.196	-0.256	100.024	-33.184	3.390	-0.753
Hour20	12.810	-1.233	-0.558	1.086	91.800	-32.065	3.272	-2.895
Hour21	11.496	-0.374	-0.925	1.468	82.863	-28.622	2.919	-5.086
Hour22	10.322	0.178	-1.296	1.556	76.430	-23.594	2.416	-5.300
Hour23	9.184	0.555	-1.349	1.624	69.113	-20.103	2.061	-4.769
Hour24	7.885	0.845	-1.425	1.664	61.486	-16.519	1.708	-4.551

Indiana Michigan Power Company - Indiana
Residential Cooling Peak Demand Model Standard Errors

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.117	0.183	0.159	0.287	0.443	0.455	0.046	0.512
Hour2	0.101	0.158	0.137	0.248	0.383	0.394	0.040	0.442
Hour3	0.087	0.136	0.118	0.213	0.329	0.338	0.034	0.380
Hour4	0.077	0.120	0.104	0.188	0.290	0.298	0.030	0.335
Hour5	0.069	0.108	0.093	0.169	0.260	0.267	0.027	0.300
Hour6	0.060	0.094	0.082	0.148	0.228	0.234	0.024	0.263
Hour7	0.053	0.082	0.071	0.129	0.199	0.205	0.021	0.230
Hour8	0.050	0.079	0.068	0.123	0.190	0.196	0.020	0.220
Hour9	0.052	0.082	0.071	0.128	0.197	0.203	0.021	0.228
Hour10	0.060	0.094	0.082	0.148	0.228	0.234	0.024	0.263
Hour11	0.078	0.122	0.106	0.191	0.295	0.303	0.031	0.340
Hour12	0.099	0.155	0.135	0.244	0.376	0.386	0.039	0.434
Hour13	0.125	0.196	0.170	0.308	0.474	0.487	0.050	0.548
Hour14	0.152	0.238	0.206	0.373	0.575	0.591	0.060	0.664
Hour15	0.176	0.275	0.238	0.431	0.665	0.684	0.070	0.768
Hour16	0.199	0.312	0.270	0.489	0.754	0.775	0.079	0.871
Hour17	0.223	0.350	0.303	0.548	0.845	0.869	0.089	0.976
Hour18	0.238	0.373	0.323	0.585	0.902	0.927	0.094	1.042
Hour19	0.237	0.372	0.322	0.583	0.899	0.924	0.094	1.038
Hour20	0.222	0.348	0.301	0.546	0.841	0.865	0.088	0.972
Hour21	0.199	0.312	0.270	0.489	0.754	0.775	0.079	0.871
Hour22	0.178	0.278	0.241	0.436	0.673	0.692	0.070	0.777
Hour23	0.159	0.249	0.216	0.390	0.602	0.619	0.063	0.695
Hour24	0.138	0.216	0.187	0.339	0.523	0.538	0.055	0.604

Indiana Michigan Power Company - Indiana
Residential Cooling Peak Demand Model t-Statistics

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	58.676	4.454	-12.241	6.689	119.805	-28.041	28.486	-7.234
Hour2	51.806	7.612	-3.114	3.018	127.492	-26.138	26.969	-8.391
Hour3	52.756	10.288	-7.514	4.947	127.721	-22.858	23.940	-8.686
Hour4	52.277	12.093	-8.062	4.859	127.627	-21.647	22.902	-9.005
Hour5	50.806	13.676	-7.269	4.606	128.163	-20.646	22.315	-9.866
Hour6	51.138	15.400	-9.828	5.580	128.650	-18.563	20.258	-9.473
Hour7	48.937	17.619	-7.293	4.674	128.642	-17.576	19.554	-9.952
Hour8	51.007	14.706	-8.514	5.424	129.695	-18.552	19.902	-8.733
Hour9	61.408	3.118	-20.712	9.970	117.934	-30.339	31.036	-8.966
Hour10	53.320	5.786	-0.478	1.593	114.607	-33.873	34.114	-8.144
Hour11	46.347	8.625	11.612	-3.281	119.570	-32.509	32.834	-7.660
Hour12	47.241	8.012	10.161	-2.677	117.791	-33.855	34.357	-8.240
Hour13	47.365	6.646	10.382	-2.320	115.518	-36.521	37.241	-9.017
Hour14	47.605	5.285	10.321	-2.333	113.935	-39.125	40.175	-10.283
Hour15	47.703	2.967	12.218	-3.157	111.121	-42.547	43.728	-10.783
Hour16	48.371	0.940	12.253	-3.396	111.034	-43.346	44.291	-10.012
Hour17	49.168	-0.999	12.548	-3.854	112.163	-41.887	42.500	-7.650
Hour18	51.222	-2.876	10.158	-3.288	112.455	-39.085	39.439	-3.865
Hour19	55.017	-3.984	3.712	-0.440	111.265	-35.914	36.013	-0.725
Hour20	57.677	-3.544	-1.849	1.990	109.099	-37.075	37.145	-2.979
Hour21	57.776	-1.199	-3.425	3.003	109.921	-36.940	36.982	-5.841
Hour22	58.103	0.639	-5.377	3.565	113.555	-34.105	34.281	-6.818
Hour23	57.784	2.230	-6.255	4.160	114.780	-32.481	32.694	-6.858
Hour24	57.106	3.907	-7.601	4.906	117.532	-30.722	31.179	-7.533

Indiana Michigan Power Company - Indiana
Residential Cooling Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.992	0.097	5.027	2.993	14.34%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.992	0.094	4.346	2.626	19.43%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.992	0.103	3.729	2.278	38.52%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.992	0.108	3.289	2.033	45.03%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.992	0.111	2.951	1.867	533.05%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.992	0.115	2.585	1.636	48.74%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.992	0.117	2.259	1.451	64.40%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.992	0.112	2.160	1.347	80.37%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.992	0.103	2.241	1.362	19.88%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.992	0.091	2.585	1.578	32.16%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.992	0.089	3.342	2.017	17.14%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.992	0.089	4.265	2.573	63.55%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.992	0.087	5.381	3.254	25.00%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.992	0.086	6.520	3.965	20.91%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.991	0.082	7.549	4.607	29.93%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.991	0.079	8.557	5.237	27.23%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.991	0.077	9.592	5.890	40.07%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.991	0.075	10.233	6.324	22.14%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.991	0.076	10.200	6.327	25.49%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.991	0.080	9.547	5.919	14.87%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.992	0.083	8.553	5.268	23.34%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.992	0.087	7.637	4.625	49.73%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.992	0.090	6.832	4.112	14.81%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.992	0.093	5.936	3.548	19.56%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Residential Heating Peak Demand Coefficients

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	3.840	-1.818	2.770	0.016	-10.901	76.726	0.173	9.675
Hour2	3.240	-1.284	2.932	-0.146	-18.555	80.412	0.773	9.246
Hour3	3.133	-1.246	3.092	-0.113	-22.180	80.459	0.898	11.283
Hour4	3.092	-1.105	3.198	-0.125	-26.200	82.151	1.111	12.532
Hour5	3.135	-1.177	3.483	-0.157	-29.079	85.321	1.242	13.921
Hour6	2.895	-1.138	3.780	-0.223	-31.102	86.842	1.267	15.956
Hour7	2.103	-0.547	4.047	-0.466	-34.577	94.164	1.274	19.746
Hour8	1.598	-0.201	3.800	0.114	-32.981	93.797	0.850	24.212
Hour9	1.632	-0.310	3.490	0.755	-25.430	90.898	0.180	25.451
Hour10	2.478	-0.896	3.076	0.815	-15.525	86.621	0.133	15.394
Hour11	3.517	-1.526	2.651	0.259	-9.034	80.104	0.077	8.868
Hour12	4.308	-2.094	2.267	-0.115	-4.385	72.066	-0.065	5.803
Hour13	4.920	-2.549	1.967	-0.242	-2.408	65.732	-0.199	5.530
Hour14	5.022	-2.632	1.698	-0.150	-1.475	60.736	-0.250	5.241
Hour15	5.074	-2.744	1.575	-0.135	-0.423	56.511	-0.281	4.603
Hour16	5.325	-2.997	1.540	-0.115	0.325	54.678	-0.296	4.084
Hour17	5.525	-3.158	1.760	-0.357	1.038	58.963	-0.359	4.391
Hour18	5.718	-3.266	2.075	-0.504	1.415	67.072	-0.416	4.988
Hour19	4.971	-2.847	2.244	-0.480	0.699	66.466	-0.393	5.441
Hour20	4.390	-2.454	2.241	-0.376	-1.815	64.861	-0.352	7.438
Hour21	3.888	-2.180	2.427	-0.294	-2.652	66.743	-0.532	10.816
Hour22	3.780	-2.062	2.579	-0.195	-4.360	71.439	-0.564	13.094
Hour23	3.489	-1.757	2.609	-0.073	-6.195	73.321	-0.324	11.708
Hour24	3.367	-1.544	2.651	-0.031	-8.052	75.391	-0.180	11.675

Indiana Michigan Power Company - Indiana
Residential Heating Peak Demand Standard Errors

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.185	0.239	0.086	0.016	0.701	0.811	0.076	0.764
Hour2	0.199	0.257	0.093	0.018	0.755	0.873	0.081	0.823
Hour3	0.205	0.265	0.096	0.018	0.778	0.900	0.084	0.848
Hour4	0.215	0.278	0.100	0.019	0.815	0.942	0.088	0.888
Hour5	0.227	0.294	0.106	0.020	0.862	0.996	0.093	0.939
Hour6	0.235	0.304	0.109	0.021	0.891	1.030	0.096	0.971
Hour7	0.247	0.320	0.115	0.022	0.940	1.086	0.101	1.024
Hour8	0.240	0.311	0.112	0.021	0.913	1.056	0.098	0.995
Hour9	0.226	0.293	0.105	0.020	0.858	0.992	0.093	0.935
Hour10	0.208	0.270	0.097	0.018	0.792	0.915	0.085	0.863
Hour11	0.186	0.240	0.087	0.016	0.706	0.816	0.076	0.769
Hour12	0.162	0.210	0.076	0.014	0.616	0.712	0.066	0.672
Hour13	0.146	0.188	0.068	0.013	0.553	0.639	0.060	0.602
Hour14	0.133	0.172	0.062	0.012	0.505	0.584	0.054	0.551
Hour15	0.124	0.160	0.058	0.011	0.470	0.543	0.051	0.512
Hour16	0.120	0.155	0.056	0.011	0.455	0.526	0.049	0.496
Hour17	0.128	0.165	0.060	0.011	0.485	0.560	0.052	0.528
Hour18	0.144	0.186	0.067	0.013	0.546	0.631	0.059	0.595
Hour19	0.145	0.188	0.068	0.013	0.551	0.637	0.059	0.601
Hour20	0.144	0.186	0.067	0.013	0.546	0.631	0.059	0.595
Hour21	0.148	0.192	0.069	0.013	0.563	0.651	0.061	0.613
Hour22	0.159	0.206	0.074	0.014	0.603	0.697	0.065	0.658
Hour23	0.166	0.215	0.078	0.015	0.632	0.730	0.068	0.689
Hour24	0.174	0.225	0.081	0.015	0.661	0.763	0.071	0.720

Indiana Michigan Power Company - Indiana
Residential Heating Peak Demand t-Statistics

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	20.795	-7.605	32.192	1.009	-15.546	94.664	2.281	12.659
Hour2	16.295	-4.989	31.646	-8.315	-24.578	92.146	9.493	11.236
Hour3	15.281	-4.698	32.365	-6.225	-28.491	89.414	10.693	13.297
Hour4	14.405	-3.976	31.966	-6.609	-32.145	87.196	12.638	14.107
Hour5	13.810	-4.007	32.922	-7.811	-33.738	85.639	13.362	14.819
Hour6	12.340	-3.750	34.572	-10.780	-34.915	84.340	13.189	16.435
Hour7	8.495	-1.709	35.085	-21.298	-36.792	86.682	12.566	19.277
Hour8	6.646	-0.647	33.907	5.382	-36.117	88.861	8.627	24.327
Hour9	7.222	-1.058	33.134	37.800	-29.629	91.623	1.941	27.207
Hour10	11.885	-3.323	31.659	44.262	-19.612	94.665	1.558	17.842
Hour11	18.928	-6.344	30.616	15.761	-12.803	98.212	1.017	11.531
Hour12	26.541	-9.967	29.969	-8.016	-7.114	101.150	-0.984	8.638
Hour13	33.801	-13.531	29.000	-18.798	-4.357	102.888	-3.338	9.180
Hour14	37.743	-15.283	27.381	-12.765	-2.920	104.001	-4.595	9.518
Hour15	41.006	-17.134	27.309	-12.313	-0.901	104.051	-5.539	8.987
Hour16	44.431	-19.325	27.572	-10.866	0.714	103.949	-6.030	8.234
Hour17	43.275	-19.111	29.572	-31.634	2.141	105.220	-6.871	8.309
Hour18	39.765	-17.552	30.967	-39.690	2.592	106.277	-7.061	8.382
Hour19	34.253	-15.158	33.175	-37.411	1.268	104.337	-6.604	9.058
Hour20	30.517	-13.182	33.429	-29.574	-3.323	102.734	-5.984	12.495
Hour21	26.231	-11.366	35.133	-22.457	-4.712	102.582	-8.768	17.631
Hour22	23.795	-10.031	34.828	-13.929	-7.227	102.449	-8.664	19.915
Hour23	20.969	-8.160	33.651	-4.993	-9.806	100.407	-4.760	17.004
Hour24	19.359	-6.857	32.707	-2.016	-12.190	98.747	-2.527	16.218

Indiana Michigan Power Company - Indiana
Residential Heating Peak Demand Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.994	0.064	7.367	4.107	6.12%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.994	0.059	7.932	4.486	12.30%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.994	0.059	8.179	4.656	10.37%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.994	0.058	8.563	4.899	18.55%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.994	0.058	9.055	5.201	8.14%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.994	0.057	9.359	5.401	8.86%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.994	0.054	9.873	5.735	22.41%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.994	0.055	9.594	5.585	5.51%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.994	0.063	9.017	5.203	5.25%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.994	0.067	8.317	4.709	5.57%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.994	0.064	7.413	4.119	6.57%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.995	0.066	6.476	3.534	7.36%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.995	0.071	5.807	3.127	8.34%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.995	0.074	5.308	2.836	12.89%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.995	0.076	4.936	2.621	38.40%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.995	0.078	4.781	2.529	17.76%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.995	0.078	5.093	2.722	35.74%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.995	0.075	5.736	3.084	10.75%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.995	0.071	5.790	3.113	6.51%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.995	0.068	5.738	3.118	5.93%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.995	0.066	5.914	3.243	6.45%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.995	0.065	6.338	3.498	5.96%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.994	0.063	6.637	3.681	5.55%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.994	0.063	6.939	3.862	5.54%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model Coefficients

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August
Hour1	64.969	0.135	1.907	1.433	0.727	1.020	2.993	-2.054	-4.770	-4.619
Hour2	43.647	-2.972	1.333	1.222	0.893	1.329	4.185	1.113	-1.053	-1.351
Hour3	30.296	-3.605	0.952	0.463	-0.151	-0.622	0.454	-1.669	-3.155	-3.186
Hour4	22.394	-1.659	0.685	0.492	0.177	0.238	1.393	-0.210	-1.377	-1.415
Hour5	18.016	-0.252	0.533	0.241	-0.112	-0.291	-0.150	-1.572	-2.327	-2.181
Hour6	21.545	1.831	0.601	0.559	0.439	0.841	1.413	-0.376	-1.208	-1.085
Hour7	32.705	4.485	0.883	0.712	0.432	0.997	1.128	-1.762	-2.925	-2.498
Hour8	45.898	4.776	1.264	-0.032	-1.407	-2.435	-5.178	-9.414	-10.873	-9.602
Hour9	50.343	1.916	1.446	-0.353	-2.197	-4.234	-7.689	-12.169	-13.765	-12.407
Hour10	43.985	-6.326	1.406	-0.515	-2.413	-5.507	-7.899	-11.250	-12.734	-12.071
Hour11	37.585	-4.707	1.188	-0.491	-2.158	-4.775	-7.059	-9.992	-11.264	-10.591
Hour12	31.217	-3.765	0.983	-0.471	-1.937	-4.116	-6.136	-8.599	-9.733	-9.088
Hour13	26.698	-3.253	0.841	-0.213	-1.295	-2.838	-3.947	-5.996	-7.029	-6.621
Hour14	26.210	-2.563	0.815	-0.179	-1.201	-2.610	-3.731	-5.783	-6.770	-6.345
Hour15	25.663	-2.590	0.799	-0.264	-1.357	-2.855	-4.172	-6.200	-7.189	-6.701
Hour16	25.965	-3.192	0.818	-0.524	-1.880	-3.867	-5.893	-7.975	-8.942	-8.295
Hour17	30.961	-3.764	0.976	-1.080	-3.080	-6.303	-10.290	-12.911	-13.814	-12.728
Hour18	43.749	-3.325	1.344	-2.603	-6.374	-12.529	-21.955	-26.130	-27.004	-24.503
Hour19	79.681	-0.842	2.356	-5.862	-13.675	-26.163	-47.773	-56.111	-57.234	-51.405
Hour20	122.814	-1.244	3.632	-9.661	-22.246	-42.618	-78.025	-91.066	-92.511	-83.079
Hour21	144.650	0.639	4.245	-7.094	-17.907	-34.778	-63.564	-77.842	-80.420	-72.444
Hour22	146.702	1.972	4.283	-0.157	-4.673	-9.960	-17.132	-29.660	-34.201	-31.319
Hour23	130.727	2.838	3.800	2.815	1.534	1.747	4.392	-5.996	-10.721	-10.327
Hour24	97.390	2.416	2.824	2.668	2.217	3.433	7.248	-0.345	-4.106	-4.195

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model Coefficients

Variable	September	October	November	December	WinterFuzzy	HLight
Hour1	-2.203	-1.061	0.814	0.000	0.077	0.068
Hour2	0.622	0.491	1.636	0.000	-0.078	0.244
Hour3	-1.358	-0.906	0.674	0.000	-0.143	0.244
Hour4	-0.205	-0.059	0.658	0.000	0.004	0.183
Hour5	-1.339	-0.768	-0.004	0.000	0.023	0.051
Hour6	-0.569	-0.134	0.122	0.000	0.138	-0.056
Hour7	-1.817	-0.698	-0.354	0.000	0.335	-0.142
Hour8	-7.743	-4.405	-2.178	0.000	0.405	-0.105
Hour9	-9.830	-5.939	-2.474	0.000	0.184	-0.020
Hour10	-8.946	-6.036	-1.338	0.000	-0.504	0.173
Hour11	-7.918	-5.267	-1.327	0.000	-0.353	0.150
Hour12	-6.733	-4.425	-1.186	0.000	-0.222	0.180
Hour13	-4.717	-3.113	-0.641	0.000	-0.189	0.159
Hour14	-4.580	-2.984	-0.683	0.000	-0.148	0.127
Hour15	-4.857	-3.150	-0.797	0.000	-0.123	0.154
Hour16	-6.180	-4.034	-1.193	0.000	-0.153	0.188
Hour17	-10.050	-6.583	-2.370	0.000	-0.248	0.153
Hour18	-20.279	-13.088	-5.746	0.000	-0.214	0.136
Hour19	-43.536	-27.710	-13.432	0.000	0.019	0.097
Hour20	-70.671	-45.047	-21.969	0.000	-0.025	0.087
Hour21	-61.101	-38.757	-18.200	0.000	-0.062	-0.143
Hour22	-24.502	-15.088	-5.253	0.000	-0.024	-0.231
Hour23	-6.399	-3.476	0.709	0.000	-0.034	-0.326
Hour24	-1.570	-0.473	1.622	0.000	0.047	-0.202

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model Standard Errors

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August	September
Hour1	5.925	0.334	0.755	1.052	1.620	2.133	2.680	2.957	2.816	2.355	1.837
Hour2	4.225	0.238	0.538	0.750	1.155	1.521	1.911	2.108	2.008	1.679	1.310
Hour3	2.856	0.161	0.364	0.507	0.781	1.028	1.292	1.425	1.358	1.135	0.885
Hour4	2.192	0.124	0.279	0.389	0.599	0.789	0.992	1.094	1.042	0.871	0.680
Hour5	1.624	0.092	0.207	0.288	0.444	0.585	0.734	0.810	0.772	0.645	0.503
Hour6	1.949	0.110	0.248	0.346	0.533	0.702	0.882	0.973	0.927	0.775	0.604
Hour7	2.898	0.164	0.369	0.514	0.792	1.043	1.311	1.446	1.378	1.152	0.898
Hour8	3.811	0.215	0.485	0.676	1.042	1.372	1.724	1.902	1.811	1.515	1.181
Hour9	4.094	0.231	0.521	0.727	1.119	1.474	1.852	2.043	1.946	1.627	1.269
Hour10	3.513	0.198	0.447	0.624	0.960	1.265	1.589	1.753	1.670	1.396	1.089
Hour11	3.009	0.170	0.383	0.534	0.822	1.083	1.361	1.502	1.430	1.196	0.933
Hour12	2.552	0.144	0.325	0.453	0.698	0.919	1.154	1.273	1.213	1.014	0.791
Hour13	2.247	0.127	0.286	0.399	0.614	0.809	1.016	1.121	1.068	0.893	0.696
Hour14	2.196	0.124	0.280	0.390	0.600	0.791	0.993	1.096	1.044	0.873	0.681
Hour15	2.158	0.122	0.275	0.383	0.590	0.777	0.976	1.077	1.025	0.858	0.669
Hour16	2.128	0.120	0.271	0.378	0.582	0.766	0.962	1.062	1.011	0.846	0.660
Hour17	2.319	0.131	0.295	0.412	0.634	0.835	1.049	1.157	1.102	0.922	0.719
Hour18	2.954	0.167	0.376	0.524	0.807	1.063	1.336	1.474	1.404	1.174	0.916
Hour19	5.097	0.288	0.649	0.905	1.393	1.835	2.305	2.543	2.423	2.026	1.580
Hour20	7.655	0.432	0.975	1.359	2.093	2.756	3.463	3.820	3.639	3.043	2.373
Hour21	9.801	0.553	1.248	1.739	2.679	3.529	4.433	4.891	4.659	3.895	3.038
Hour22	11.872	0.670	1.512	2.107	3.245	4.274	5.370	5.924	5.643	4.718	3.680
Hour23	11.396	0.643	1.451	2.023	3.115	4.103	5.155	5.687	5.417	4.530	3.532
Hour24	8.737	0.493	1.113	1.551	2.388	3.146	3.952	4.360	4.153	3.473	2.708

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model Standard Errors

Variable	October	November	December	WinterFuzzy	HLight
Hour1	1.467	0.822	0.000	1.293	0.561
Hour2	1.046	0.586	0.000	0.922	0.400
Hour3	0.707	0.396	0.000	0.623	0.270
Hour4	0.543	0.304	0.000	0.478	0.207
Hour5	0.402	0.225	0.000	0.354	0.154
Hour6	0.483	0.270	0.000	0.425	0.184
Hour7	0.717	0.402	0.000	0.632	0.274
Hour8	0.943	0.529	0.000	0.832	0.361
Hour9	1.013	0.568	0.000	0.893	0.387
Hour10	0.870	0.487	0.000	0.767	0.332
Hour11	0.745	0.417	0.000	0.657	0.285
Hour12	0.632	0.354	0.000	0.557	0.241
Hour13	0.556	0.312	0.000	0.490	0.213
Hour14	0.544	0.305	0.000	0.479	0.208
Hour15	0.534	0.299	0.000	0.471	0.204
Hour16	0.527	0.295	0.000	0.464	0.201
Hour17	0.574	0.322	0.000	0.506	0.219
Hour18	0.731	0.410	0.000	0.644	0.279
Hour19	1.262	0.707	0.000	1.112	0.482
Hour20	1.895	1.062	0.000	1.670	0.724
Hour21	2.426	1.360	0.000	2.139	0.927
Hour22	2.939	1.647	0.000	2.590	1.123
Hour23	2.821	1.581	0.000	2.487	1.078
Hour24	2.163	1.212	0.000	1.906	0.827

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model t-Statistics

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August
Hour1	10.965	0.404	2.527	1.362	0.449	0.478	1.117	-0.695	-1.694	-1.961
Hour2	10.330	-12.467	2.477	1.629	0.773	0.874	2.190	0.528	-0.524	-0.804
Hour3	10.607	-22.369	2.616	0.913	-0.193	-0.605	0.351	-1.171	-2.324	-2.806
Hour4	10.215	-13.410	2.453	1.265	0.295	0.301	1.405	-0.192	-1.321	-1.624
Hour5	11.095	-2.748	2.579	0.835	-0.252	-0.497	-0.204	-1.940	-3.015	-3.379
Hour6	11.052	16.645	2.422	1.616	0.823	1.198	1.603	-0.386	-1.303	-1.401
Hour7	11.285	27.428	2.391	1.384	0.545	0.955	0.861	-1.218	-2.123	-2.169
Hour8	12.044	22.212	2.605	-0.048	-1.351	-1.775	-3.004	-4.950	-6.003	-6.339
Hour9	12.297	8.294	2.773	-0.486	-1.964	-2.873	-4.153	-5.957	-7.074	-7.625
Hour10	12.519	-31.913	3.142	-0.826	-2.512	-4.353	-4.971	-6.417	-7.626	-8.644
Hour11	12.490	-27.724	3.101	-0.920	-2.624	-4.408	-5.187	-6.654	-7.875	-8.855
Hour12	12.232	-26.152	3.025	-1.041	-2.777	-4.479	-5.315	-6.752	-8.024	-8.959
Hour13	11.883	-25.664	2.940	-0.533	-2.109	-3.508	-3.885	-5.348	-6.582	-7.415
Hour14	11.935	-20.684	2.914	-0.459	-2.000	-3.301	-3.756	-5.277	-6.486	-7.270
Hour15	11.895	-21.277	2.907	-0.689	-2.302	-3.675	-4.275	-5.759	-7.010	-7.814
Hour16	12.202	-26.592	3.018	-1.388	-3.232	-5.048	-6.123	-7.510	-8.841	-9.808
Hour17	13.349	-28.764	3.305	-2.623	-4.859	-7.548	-9.809	-11.155	-12.530	-13.807
Hour18	14.812	-19.954	3.574	-4.966	-7.895	-11.781	-16.434	-17.728	-19.234	-20.872
Hour19	15.634	-2.930	3.630	-6.481	-9.816	-14.258	-20.724	-22.062	-23.625	-25.376
Hour20	16.043	-2.879	3.726	-7.111	-10.631	-15.462	-22.534	-23.838	-25.424	-27.305
Hour21	14.759	1.155	3.401	-4.079	-6.684	-9.856	-14.339	-15.916	-17.263	-18.597
Hour22	12.357	2.944	2.833	-0.074	-1.440	-2.330	-3.191	-5.007	-6.061	-6.638
Hour23	11.471	4.413	2.618	1.392	0.493	0.426	0.852	-1.054	-1.979	-2.280
Hour24	11.147	4.902	2.538	1.720	0.928	1.091	1.834	-0.079	-0.989	-1.208

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model t-Statistics

Variable	September	October	November	December	WinterFuzzy	HLight
Hour1	-1.200	-0.723	0.991	0.000	0.060	0.121
Hour2	0.475	0.470	2.792	0.000	-0.084	0.609
Hour3	-1.534	-1.281	1.701	0.000	-0.229	0.904
Hour4	-0.302	-0.109	2.165	0.000	0.009	0.881
Hour5	-2.660	-1.912	-0.018	0.000	0.065	0.331
Hour6	-0.942	-0.278	0.452	0.000	0.325	-0.303
Hour7	-2.022	-0.973	-0.880	0.000	0.530	-0.518
Hour8	-6.555	-4.670	-4.120	0.000	0.487	-0.291
Hour9	-7.747	-5.861	-4.356	0.000	0.206	-0.053
Hour10	-8.215	-6.940	-2.745	0.000	-0.658	0.519
Hour11	-8.490	-7.072	-3.180	0.000	-0.538	0.527
Hour12	-8.512	-7.005	-3.351	0.000	-0.399	0.745
Hour13	-6.774	-5.597	-2.055	0.000	-0.385	0.748
Hour14	-6.728	-5.489	-2.242	0.000	-0.308	0.609
Hour15	-7.263	-5.897	-2.664	0.000	-0.261	0.754
Hour16	-9.370	-7.659	-4.042	0.000	-0.329	0.932
Hour17	-13.980	-11.466	-7.366	0.000	-0.490	0.695
Hour18	-22.151	-17.901	-14.023	0.000	-0.332	0.488
Hour19	-27.559	-21.964	-18.998	0.000	0.017	0.200
Hour20	-29.783	-23.771	-20.688	0.000	-0.015	0.120
Hour21	-20.113	-15.975	-13.386	0.000	-0.029	-0.154
Hour22	-6.659	-5.134	-3.190	0.000	-0.009	-0.206
Hour23	-1.812	-1.232	0.448	0.000	-0.014	-0.302
Hour24	-0.580	-0.219	1.339	0.000	0.024	-0.244

Indiana Michigan Power Company - Indiana
Residential Lighting Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1810	0.112	0.002	6.454	5.045	7.75%	0	0.000	0.00%	0.000
Hour2	1826	1810	0.149	0.003	4.602	3.596	7.75%	0	0.000	0.00%	0.000
Hour3	1826	1810	0.277	0.006	3.111	2.429	7.75%	0	0.000	0.00%	0.000
Hour4	1826	1810	0.155	0.003	2.388	1.866	7.75%	0	0.000	0.00%	0.000
Hour5	1826	1810	0.190	0.002	1.769	1.382	7.75%	0	0.000	0.00%	0.000
Hour6	1826	1810	0.226	0.004	2.123	1.658	7.75%	0	0.000	0.00%	0.000
Hour7	1826	1810	0.402	0.007	3.157	2.461	7.75%	0	0.000	0.00%	0.000
Hour8	1826	1810	0.577	0.006	4.151	3.225	7.75%	0	0.000	0.00%	0.000
Hour9	1826	1810	0.581	0.003	4.459	3.464	7.75%	0	0.000	0.00%	0.000
Hour10	1826	1810	0.644	0.010	3.827	2.966	7.75%	0	0.000	0.00%	0.000
Hour11	1826	1810	0.639	0.008	3.278	2.541	7.75%	0	0.000	0.00%	0.000
Hour12	1826	1810	0.630	0.008	2.780	2.156	7.75%	0	0.000	0.00%	0.000
Hour13	1826	1810	0.549	0.007	2.447	1.903	7.75%	0	0.000	0.00%	0.000
Hour14	1826	1810	0.526	0.006	2.392	1.861	7.75%	0	0.000	0.00%	0.000
Hour15	1826	1810	0.554	0.006	2.350	1.827	7.75%	0	0.000	0.00%	0.000
Hour16	1826	1810	0.662	0.008	2.318	1.795	7.75%	0	0.000	0.00%	0.000
Hour17	1826	1810	0.800	0.009	2.526	1.937	7.75%	0	0.000	0.00%	0.000
Hour18	1826	1810	0.904	0.007	3.217	2.399	7.75%	0	0.000	0.00%	0.000
Hour19	1826	1810	0.936	0.005	5.552	4.023	7.75%	0	0.000	0.00%	0.000
Hour20	1826	1810	0.944	0.005	8.339	5.959	7.75%	0	0.000	0.00%	0.000
Hour21	1826	1810	0.889	0.004	10.676	8.019	7.75%	0	0.000	0.00%	0.000
Hour22	1826	1810	0.510	0.002	12.931	10.062	7.75%	0	0.000	0.00%	0.000
Hour23	1826	1810	0.166	0.002	12.413	9.699	7.75%	0	0.000	0.00%	0.000
Hour24	1826	1810	0.108	0.002	9.517	7.439	7.75%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	-3.452	13.007	-5.635	7.827	1.981	8.542	0.854	-11.649	453.215
Hour2	-0.149	7.486	-4.085	6.190	1.461	-0.535	1.106	-0.329	438.752
Hour3	0.152	6.611	-3.353	4.747	2.594	1.487	0.966	-3.534	397.137
Hour4	0.327	5.503	-2.452	4.444	1.943	1.314	0.920	-3.001	413.384
Hour5	-0.016	5.742	-2.519	3.632	2.026	3.128	1.069	-5.212	398.994
Hour6	-0.223	5.846	-2.423	2.739	2.551	3.508	0.960	-5.233	442.160
Hour7	-0.066	5.643	-2.279	2.922	2.381	3.687	1.190	-6.086	472.636
Hour8	-2.543	7.886	-2.256	1.380	4.134	5.669	0.756	-6.593	596.666
Hour9	-2.656	7.774	-1.833	1.054	4.598	5.267	0.363	-4.428	602.227
Hour10	-1.980	6.367	-0.674	3.192	3.930	-1.203	0.085	3.038	485.661
Hour11	-2.645	7.885	-1.603	3.355	7.271	-2.031	0.712	1.170	466.790
Hour12	-3.205	8.386	-1.785	6.836	6.705	-3.572	1.062	2.427	455.882
Hour13	-2.898	8.196	-2.062	8.525	8.410	-2.535	1.128	-0.395	450.374
Hour14	-4.440	11.042	-3.716	10.383	8.170	1.552	1.427	-6.356	395.330
Hour15	-5.389	13.577	-5.240	11.410	8.975	0.795	1.112	-5.644	385.578
Hour16	-3.854	12.479	-5.443	14.701	5.602	-1.036	0.823	-2.531	381.082
Hour17	-5.768	16.240	-7.603	17.107	1.833	-3.510	0.836	1.550	466.043
Hour18	-5.816	17.163	-8.730	18.831	-1.688	-1.817	1.012	0.489	566.747
Hour19	-3.127	14.821	-8.570	19.375	-3.092	-1.048	1.179	-1.307	603.802
Hour20	-3.611	16.041	-8.985	16.893	-0.163	4.304	1.093	-10.612	599.315
Hour21	-0.984	13.313	-8.196	15.417	1.061	4.363	1.005	-10.048	540.061
Hour22	-0.851	12.980	-7.827	13.132	1.512	4.570	0.970	-7.216	557.753
Hour23	-1.436	12.602	-6.690	12.271	0.164	6.818	0.894	-10.207	460.990
Hour24	-2.576	12.916	-6.289	9.166	2.634	7.498	0.869	-11.628	473.478

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July
Hour1	436.678	26.171	83.556	31.865	58.473	54.175	66.884	121.696	143.578
Hour2	438.934	13.211	109.783	48.080	78.015	66.451	72.157	120.265	145.612
Hour3	396.273	2.873	118.437	52.053	79.688	69.643	70.194	108.016	135.926
Hour4	407.105	5.245	130.699	61.446	101.142	85.847	81.058	110.025	134.503
Hour5	384.100	2.391	134.702	66.428	104.011	93.807	79.331	104.353	131.459
Hour6	411.406	8.331	142.442	74.013	122.008	107.088	88.398	107.007	125.887
Hour7	415.746	11.438	151.326	82.280	136.002	117.863	95.546	116.926	127.007
Hour8	491.619	14.140	165.594	106.580	172.551	160.197	140.152	142.622	146.533
Hour9	528.391	5.130	164.501	107.175	166.827	160.235	134.814	140.929	137.211
Hour10	498.854	2.251	148.761	89.339	126.006	128.652	105.133	127.765	131.474
Hour11	507.364	22.052	134.298	72.866	96.455	100.785	79.044	124.841	133.043
Hour12	506.257	43.798	117.210	53.171	70.256	71.423	67.761	124.148	133.125
Hour13	507.450	37.609	95.708	33.535	46.711	55.077	63.528	124.119	143.882
Hour14	448.397	27.229	91.638	21.570	22.920	36.597	54.915	126.861	159.818
Hour15	443.539	17.336	82.164	14.856	7.302	30.166	50.120	133.933	168.513
Hour16	443.933	25.764	72.078	6.304	-0.234	12.993	39.382	123.404	172.130
Hour17	523.462	22.192	74.398	4.715	16.457	41.373	76.152	165.876	214.632
Hour18	594.869	12.630	75.786	0.258	19.034	46.069	89.670	176.614	231.651
Hour19	598.800	7.963	81.645	-10.266	17.491	51.162	112.023	205.943	256.359
Hour20	578.821	1.155	81.029	15.239	25.431	52.646	121.268	225.138	273.375
Hour21	518.050	15.394	83.959	30.529	43.342	42.216	95.595	196.802	246.198
Hour22	533.769	22.273	87.186	31.956	61.073	63.386	82.316	155.410	199.131
Hour23	431.196	21.718	85.447	26.221	48.556	54.621	65.710	119.822	155.138
Hour24	452.615	26.308	82.408	23.726	51.252	44.931	61.874	116.074	144.424

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Coefficients

Variable	August	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight
Hour1	105.274	32.137	-7.947	-19.946	0.000	-37.415	-64.377	-18.873
Hour2	107.003	41.851	1.152	-14.982	0.000	-18.909	-62.862	-20.659
Hour3	100.406	46.401	7.249	-7.512	0.000	-8.701	-61.377	-18.593
Hour4	102.513	47.505	13.670	-2.613	0.000	4.559	-73.411	-21.132
Hour5	101.032	51.171	16.279	-1.897	0.000	5.771	-75.332	-19.918
Hour6	96.236	43.988	13.613	0.881	0.000	10.519	-86.536	-22.619
Hour7	102.750	57.438	17.840	7.748	0.000	15.613	-100.831	-24.046
Hour8	134.407	79.740	23.217	6.634	0.000	7.148	-115.246	-29.788
Hour9	122.417	58.991	16.793	6.217	0.000	-5.161	-111.061	-29.301
Hour10	103.818	37.783	11.892	4.880	0.000	-13.447	-71.889	-23.626
Hour11	104.618	34.512	3.532	-1.333	0.000	-36.571	-58.496	-21.146
Hour12	106.930	30.815	1.650	-7.209	0.000	-49.531	-39.078	-19.645
Hour13	115.122	30.863	0.509	-11.172	0.000	-60.159	-14.516	-18.757
Hour14	139.363	45.217	7.485	-14.649	0.000	-85.689	8.932	-13.255
Hour15	149.887	51.860	5.909	-20.419	0.000	-94.566	19.619	-12.444
Hour16	148.222	53.493	-7.591	-24.340	0.000	-108.419	12.797	-11.118
Hour17	184.897	86.385	8.704	-22.390	0.000	-114.096	3.648	-17.389
Hour18	197.720	95.509	-0.105	-25.326	0.000	-113.821	-14.968	-22.097
Hour19	220.039	107.719	4.606	-23.541	0.000	-104.143	-12.906	-22.642
Hour20	230.094	110.603	4.034	-9.620	0.000	-93.706	-26.889	-21.154
Hour21	201.136	92.410	24.044	-8.354	0.000	-89.545	-43.556	-17.860
Hour22	170.342	83.957	15.733	-18.291	0.000	-78.816	-46.273	-22.422
Hour23	135.994	52.684	-13.177	-26.203	0.000	-76.549	-46.242	-15.608
Hour24	113.279	27.502	-18.019	-32.411	0.000	-57.045	-57.167	-17.412

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Coefficients

Variable	DST
Hour1	-7.153
Hour2	-8.968
Hour3	-8.531
Hour4	-11.776
Hour5	-11.234
Hour6	-18.142
Hour7	-19.652
Hour8	-36.014
Hour9	-29.134
Hour10	2.163
Hour11	20.676
Hour12	25.992
Hour13	31.845
Hour14	26.745
Hour15	26.304
Hour16	20.039
Hour17	2.441
Hour18	-11.547
Hour19	-29.671
Hour20	-45.045
Hour21	-35.504
Hour22	-14.578
Hour23	3.594
Hour24	-7.583

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	0.433	0.600	0.260	0.475	0.681	0.684	0.067	1.062	17.660
Hour2	0.430	0.596	0.258	0.472	0.677	0.679	0.066	1.055	17.546
Hour3	0.432	0.599	0.260	0.475	0.680	0.682	0.067	1.060	17.626
Hour4	0.438	0.607	0.263	0.481	0.689	0.691	0.067	1.073	17.849
Hour5	0.451	0.625	0.271	0.495	0.709	0.712	0.069	1.106	18.389
Hour6	0.455	0.630	0.273	0.499	0.715	0.718	0.070	1.115	18.538
Hour7	0.466	0.646	0.280	0.512	0.733	0.735	0.072	1.143	18.999
Hour8	0.475	0.659	0.285	0.522	0.747	0.750	0.073	1.165	19.373
Hour9	0.467	0.648	0.281	0.513	0.735	0.738	0.072	1.146	19.062
Hour10	0.457	0.634	0.275	0.502	0.719	0.722	0.070	1.121	18.648
Hour11	0.455	0.630	0.273	0.499	0.715	0.718	0.070	1.115	18.546
Hour12	0.458	0.634	0.275	0.502	0.720	0.722	0.070	1.122	18.660
Hour13	0.476	0.660	0.286	0.523	0.749	0.751	0.073	1.167	19.410
Hour14	0.497	0.689	0.298	0.546	0.782	0.784	0.076	1.219	20.265
Hour15	0.517	0.716	0.310	0.567	0.813	0.815	0.079	1.267	21.065
Hour16	0.541	0.750	0.325	0.594	0.851	0.854	0.083	1.326	22.050
Hour17	0.577	0.800	0.347	0.634	0.908	0.911	0.089	1.415	23.536
Hour18	0.615	0.852	0.369	0.675	0.967	0.970	0.095	1.507	25.063
Hour19	0.617	0.855	0.370	0.677	0.970	0.974	0.095	1.512	25.149
Hour20	0.591	0.819	0.355	0.648	0.929	0.932	0.091	1.448	24.083
Hour21	0.535	0.742	0.321	0.587	0.842	0.844	0.082	1.312	21.813
Hour22	0.483	0.670	0.290	0.531	0.760	0.763	0.074	1.185	19.710
Hour23	0.461	0.639	0.277	0.506	0.725	0.727	0.071	1.130	18.786
Hour24	0.442	0.613	0.266	0.486	0.696	0.698	0.068	1.085	18.037

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	17.775	3.139	2.001	2.965	4.553	5.907	7.109	7.545	7.182	6.094
Hour2	17.660	3.118	1.988	2.946	4.524	5.869	7.063	7.497	7.136	6.055
Hour3	17.740	3.132	1.997	2.959	4.544	5.896	7.095	7.531	7.168	6.082
Hour4	17.965	3.172	2.023	2.997	4.602	5.971	7.185	7.626	7.259	6.159
Hour5	18.508	3.268	2.084	3.087	4.741	6.151	7.402	7.857	7.478	6.346
Hour6	18.658	3.294	2.101	3.112	4.779	6.201	7.462	7.920	7.539	6.397
Hour7	19.122	3.376	2.153	3.190	4.898	6.355	7.648	8.117	7.726	6.556
Hour8	19.498	3.443	2.196	3.252	4.995	6.480	7.798	8.277	7.878	6.685
Hour9	19.185	3.388	2.160	3.200	4.915	6.376	7.673	8.144	7.752	6.578
Hour10	18.769	3.314	2.113	3.131	4.808	6.238	7.506	7.967	7.584	6.435
Hour11	18.666	3.296	2.102	3.114	4.782	6.203	7.465	7.924	7.542	6.400
Hour12	18.781	3.316	2.115	3.133	4.811	6.242	7.511	7.972	7.588	6.439
Hour13	19.536	3.450	2.200	3.259	5.004	6.493	7.813	8.293	7.894	6.698
Hour14	20.396	3.601	2.297	3.402	5.225	6.779	8.157	8.658	8.241	6.993
Hour15	21.202	3.744	2.387	3.537	5.431	7.046	8.480	9.000	8.567	7.269
Hour16	22.193	3.919	2.499	3.702	5.685	7.376	8.876	9.421	8.967	7.609
Hour17	23.689	4.183	2.667	3.951	6.068	7.873	9.474	10.056	9.571	8.122
Hour18	25.225	4.454	2.840	4.208	6.462	8.383	10.089	10.708	10.192	8.649
Hour19	25.312	4.469	2.850	4.222	6.484	8.412	10.123	10.745	10.227	8.678
Hour20	24.239	4.280	2.729	4.043	6.209	8.056	9.694	10.289	9.794	8.311
Hour21	21.954	3.877	2.472	3.662	5.624	7.296	8.781	9.320	8.871	7.527
Hour22	19.838	3.503	2.234	3.309	5.082	6.593	7.934	8.421	8.016	6.802
Hour23	18.907	3.339	2.129	3.154	4.843	6.284	7.562	8.026	7.640	6.482
Hour24	18.154	3.206	2.044	3.028	4.650	6.033	7.261	7.706	7.335	6.224

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Standard Errors

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	5.138	4.068	2.114	0.000	3.363	3.408	1.684	2.627
Hour2	5.105	4.042	2.100	0.000	3.342	3.386	1.673	2.610
Hour3	5.128	4.060	2.110	0.000	3.357	3.401	1.681	2.622
Hour4	5.193	4.111	2.136	0.000	3.399	3.444	1.702	2.655
Hour5	5.351	4.236	2.201	0.000	3.502	3.548	1.753	2.735
Hour6	5.394	4.270	2.219	0.000	3.530	3.577	1.768	2.757
Hour7	5.528	4.376	2.274	0.000	3.618	3.666	1.812	2.826
Hour8	5.637	4.462	2.319	0.000	3.690	3.738	1.847	2.882
Hour9	5.546	4.391	2.281	0.000	3.630	3.678	1.818	2.835
Hour10	5.426	4.295	2.232	0.000	3.551	3.598	1.778	2.774
Hour11	5.396	4.272	2.220	0.000	3.532	3.579	1.768	2.759
Hour12	5.429	4.298	2.233	0.000	3.554	3.601	1.779	2.776
Hour13	5.648	4.471	2.323	0.000	3.697	3.745	1.851	2.887
Hour14	5.896	4.668	2.425	0.000	3.859	3.910	1.932	3.014
Hour15	6.129	4.852	2.521	0.000	4.012	4.065	2.009	3.133
Hour16	6.416	5.079	2.639	0.000	4.199	4.255	2.103	3.280
Hour17	6.848	5.421	2.817	0.000	4.482	4.541	2.244	3.501
Hour18	7.292	5.773	3.000	0.000	4.773	4.836	2.390	3.728
Hour19	7.317	5.793	3.010	0.000	4.790	4.853	2.398	3.741
Hour20	7.007	5.547	2.882	0.000	4.587	4.647	2.296	3.582
Hour21	6.347	5.024	2.611	0.000	4.154	4.209	2.080	3.245
Hour22	5.735	4.540	2.359	0.000	3.754	3.803	1.879	2.932
Hour23	5.466	4.327	2.248	0.000	3.578	3.625	1.791	2.794
Hour24	5.248	4.155	2.159	0.000	3.435	3.480	1.720	2.683

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	-7.973	21.665	-21.664	16.462	2.907	12.495	12.820	-10.969	25.663
Hour2	-0.346	12.550	-15.807	13.102	2.158	-0.787	16.711	-0.311	25.005
Hour3	0.353	11.033	-12.916	10.004	3.814	2.179	14.531	-3.334	22.532
Hour4	0.746	9.069	-9.328	9.247	2.822	1.901	13.667	-2.796	23.160
Hour5	-0.035	9.186	-9.299	7.337	2.855	4.394	15.402	-4.713	21.697
Hour6	-0.491	9.277	-8.874	5.488	3.566	4.889	13.733	-4.694	23.852
Hour7	-0.141	8.737	-8.142	5.711	3.249	5.013	16.602	-5.327	24.877
Hour8	-5.354	11.974	-7.906	2.646	5.531	7.559	10.344	-5.659	30.799
Hour9	-5.682	11.997	-6.529	2.054	6.252	7.137	5.042	-3.863	31.593
Hour10	-4.330	10.043	-2.454	6.358	5.463	-1.667	1.202	2.709	26.044
Hour11	-5.817	12.507	-5.867	6.719	10.162	-2.828	10.177	1.049	25.170
Hour12	-7.004	13.220	-6.495	13.607	9.314	-4.945	15.086	2.163	24.431
Hour13	-6.089	12.421	-7.211	16.312	11.230	-3.373	15.404	-0.338	23.203
Hour14	-8.936	16.028	-12.449	19.030	10.450	1.979	18.658	-5.215	19.508
Hour15	-10.432	18.959	-16.889	20.118	11.043	0.975	13.992	-4.456	18.304
Hour16	-7.128	16.648	-16.760	24.763	6.586	-1.214	9.893	-1.909	17.283
Hour17	-9.995	20.297	-21.933	26.995	2.018	-3.852	9.416	1.095	19.801
Hour18	-9.464	20.145	-23.649	27.907	-1.746	-1.873	10.702	0.325	22.613
Hour19	-5.071	17.335	-23.136	28.614	-3.187	-1.077	12.426	-0.864	24.009
Hour20	-6.115	19.594	-25.328	26.053	-0.176	4.616	12.032	-7.327	24.885
Hour21	-1.840	17.953	-25.511	26.251	1.261	5.167	12.210	-7.660	24.759
Hour22	-1.761	19.371	-26.961	24.746	1.988	5.990	13.041	-6.088	28.297
Hour23	-3.117	19.733	-24.177	24.260	0.226	9.375	12.620	-9.035	24.539
Hour24	-5.825	21.063	-23.673	18.875	3.786	10.739	12.774	-10.720	26.250

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	24.568	8.339	41.749	10.747	12.842	9.171	9.409	16.129	19.992	17.275
Hour2	24.855	4.237	55.210	16.322	17.245	11.322	10.216	16.043	20.407	17.672
Hour3	22.338	0.917	59.293	17.591	17.535	11.812	9.893	14.344	18.963	16.508
Hour4	22.661	1.653	64.612	20.505	21.978	14.378	11.282	14.428	18.530	16.644
Hour5	20.753	0.732	64.636	21.517	21.938	15.251	10.717	13.282	17.579	15.921
Hour6	22.050	2.529	67.803	23.782	25.528	17.270	11.846	13.511	16.699	15.044
Hour7	21.742	3.388	70.283	25.796	27.765	18.546	12.493	14.405	16.438	15.673
Hour8	25.213	4.107	75.424	32.769	34.546	24.721	17.972	17.231	18.599	20.105
Hour9	27.542	1.514	76.149	33.490	33.945	25.131	17.570	17.305	17.700	18.611
Hour10	26.579	0.679	70.392	28.536	26.208	20.625	14.006	16.036	17.337	16.133
Hour11	27.182	6.691	63.898	23.403	20.172	16.247	10.588	15.756	17.640	16.347
Hour12	26.956	13.208	55.427	16.973	14.603	11.443	9.021	15.573	17.543	16.607
Hour13	25.975	10.903	43.509	10.291	9.334	8.483	8.131	14.967	18.228	17.188
Hour14	21.984	7.561	39.902	6.340	4.387	5.399	6.732	14.652	19.393	19.929
Hour15	20.920	4.631	34.417	4.201	1.344	4.281	5.911	14.881	19.671	20.620
Hour16	20.003	6.575	28.844	1.703	-0.041	1.762	4.437	13.099	19.196	19.480
Hour17	22.098	5.306	27.892	1.193	2.712	5.255	8.038	16.496	22.424	22.766
Hour18	23.583	2.836	26.682	0.061	2.946	5.495	8.888	16.494	22.728	22.862
Hour19	23.657	1.782	28.646	-2.431	2.698	6.082	11.066	19.167	25.066	25.355
Hour20	23.880	0.270	29.689	3.769	4.096	6.535	12.509	21.881	27.913	27.687
Hour21	23.597	3.971	33.963	8.336	7.707	5.786	10.887	21.117	27.754	26.721
Hour22	26.906	6.358	39.031	9.657	12.018	9.614	10.375	18.455	24.843	25.044
Hour23	22.806	6.505	40.136	8.314	10.025	8.692	8.690	14.929	20.307	20.979
Hour24	24.932	8.207	40.315	7.835	11.021	7.447	8.522	15.062	19.689	18.200

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model t-Statistics

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	6.254	-1.954	-9.437	0.000	-11.124	-18.892	-11.208	-2.723
Hour2	8.198	0.285	-7.134	0.000	-5.659	-18.567	-12.348	-3.436
Hour3	9.048	1.786	-3.561	0.000	-2.592	-18.047	-11.062	-3.254
Hour4	9.147	3.325	-1.223	0.000	1.341	-21.315	-12.416	-4.435
Hour5	9.564	3.843	-0.862	0.000	1.648	-21.231	-11.359	-4.107
Hour6	8.155	3.188	0.397	0.000	2.980	-24.193	-12.796	-6.579
Hour7	10.390	4.077	3.407	0.000	4.315	-27.505	-13.273	-6.954
Hour8	14.146	5.203	2.861	0.000	1.937	-30.830	-16.125	-12.497
Hour9	10.636	3.825	2.725	0.000	-1.422	-30.195	-16.121	-10.275
Hour10	6.964	2.769	2.187	0.000	-3.786	-19.979	-13.287	0.780
Hour11	6.396	0.827	-0.600	0.000	-10.354	-16.347	-11.958	7.495
Hour12	5.676	0.384	-3.228	0.000	-13.938	-10.854	-11.041	9.364
Hour13	5.465	0.114	-4.809	0.000	-16.274	-3.876	-10.134	11.030
Hour14	7.669	1.604	-6.040	0.000	-22.203	2.284	-6.860	8.872
Hour15	8.461	1.218	-8.099	0.000	-23.572	4.827	-6.195	8.394
Hour16	8.338	-1.495	-9.223	0.000	-25.818	3.008	-5.288	6.109
Hour17	12.614	1.606	-7.948	0.000	-25.454	0.803	-7.748	0.697
Hour18	13.097	-0.018	-8.443	0.000	-23.846	-3.095	-9.246	-3.097
Hour19	14.721	0.795	-7.821	0.000	-21.744	-2.660	-9.442	-7.931
Hour20	15.784	0.727	-3.337	0.000	-20.431	-5.786	-9.212	-12.574
Hour21	14.560	4.786	-3.200	0.000	-21.555	-10.348	-8.586	-10.942
Hour22	14.639	3.465	-7.753	0.000	-20.996	-12.167	-11.930	-4.972
Hour23	9.639	-3.045	-11.654	0.000	-21.396	-12.757	-8.713	1.286
Hour24	5.240	-4.337	-15.013	0.000	-16.606	-16.425	-10.124	-2.826

Indiana Michigan Power Company - Indiana
Residential Other Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1799	0.949	0.080	16.362	12.188	4.50%	0	0.000	0.00%	0.000
Hour2	1826	1799	0.937	0.072	16.256	11.861	4.97%	0	0.000	0.00%	0.000
Hour3	1826	1799	0.933	0.069	16.330	11.769	5.17%	0	0.000	0.00%	0.000
Hour4	1826	1799	0.928	0.066	16.537	11.772	5.41%	0	0.000	0.00%	0.000
Hour5	1826	1799	0.919	0.063	17.037	12.027	5.67%	0	0.000	0.00%	0.000
Hour6	1826	1799	0.918	0.062	17.174	11.904	5.56%	0	0.000	0.00%	0.000
Hour7	1826	1799	0.922	0.061	17.602	12.005	5.42%	0	0.000	0.00%	0.000
Hour8	1826	1799	0.942	0.061	17.948	12.317	4.64%	0	0.000	0.00%	0.000
Hour9	1826	1799	0.940	0.061	17.660	12.198	4.17%	0	0.000	0.00%	0.000
Hour10	1826	1799	0.937	0.067	17.277	12.099	3.98%	0	0.000	0.00%	0.000
Hour11	1826	1799	0.944	0.071	17.182	12.449	3.87%	0	0.000	0.00%	0.000
Hour12	1826	1799	0.950	0.074	17.288	12.883	3.83%	0	0.000	0.00%	0.000
Hour13	1826	1799	0.952	0.078	17.983	13.625	3.90%	0	0.000	0.00%	0.000
Hour14	1826	1799	0.955	0.082	18.775	14.273	4.02%	0	0.000	0.00%	0.000
Hour15	1826	1799	0.957	0.084	19.516	14.797	4.21%	0	0.000	0.00%	0.000
Hour16	1826	1799	0.957	0.086	20.429	15.396	4.44%	0	0.000	0.00%	0.000
Hour17	1826	1799	0.953	0.083	21.805	16.353	4.68%	0	0.000	0.00%	0.000
Hour18	1826	1799	0.949	0.079	23.220	17.381	4.73%	0	0.000	0.00%	0.000
Hour19	1826	1799	0.954	0.079	23.300	17.400	4.41%	0	0.000	0.00%	0.000
Hour20	1826	1799	0.961	0.081	22.312	16.958	4.20%	0	0.000	0.00%	0.000
Hour21	1826	1799	0.964	0.086	20.209	15.744	4.16%	0	0.000	0.00%	0.000
Hour22	1826	1799	0.959	0.088	18.261	14.498	4.24%	0	0.000	0.00%	0.000
Hour23	1826	1799	0.957	0.085	17.404	13.802	4.26%	0	0.000	0.00%	0.000
Hour24	1826	1799	0.955	0.082	16.711	12.892	4.30%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Commercial Cooling Peak Demand Model Coefficients

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	2.434	0.399	-0.727	0.802	17.511	-6.611	0.683	-1.688
Hour2	1.796	0.796	-0.607	0.619	13.279	-3.890	0.400	-1.129
Hour3	1.757	0.781	-0.628	0.628	12.812	-3.634	0.373	-1.022
Hour4	1.752	0.764	-0.782	0.707	12.211	-3.318	0.339	-0.930
Hour5	1.922	0.661	-1.182	0.962	12.247	-3.412	0.349	-0.948
Hour6	2.127	0.636	-1.389	1.098	13.330	-3.945	0.406	-1.142
Hour7	2.247	0.570	-1.342	1.091	14.313	-4.558	0.471	-1.335
Hour8	2.206	0.731	-1.100	0.938	14.974	-4.754	0.498	-1.592
Hour9	2.530	0.711	-0.927	0.883	18.222	-6.450	0.679	-2.143
Hour10	2.946	0.613	-0.780	0.841	22.049	-8.499	0.893	-2.664
Hour11	3.262	0.532	-0.780	0.874	24.638	-9.874	1.038	-3.029
Hour12	3.251	0.579	-0.563	0.739	25.499	-10.343	1.089	-3.189
Hour13	3.437	0.544	-0.597	0.803	26.650	-10.838	1.140	-3.301
Hour14	3.381	0.540	-0.407	0.685	26.818	-10.994	1.157	-3.339
Hour15	3.470	0.515	-0.455	0.725	27.330	-11.235	1.181	-3.363
Hour16	3.406	0.563	-0.440	0.702	26.903	-10.974	1.155	-3.355
Hour17	3.352	0.544	-0.616	0.814	25.784	-10.424	1.096	-3.182
Hour18	3.348	0.408	-0.597	0.816	25.626	-10.527	1.102	-3.010
Hour19	3.255	0.374	-0.534	0.780	24.959	-10.257	1.070	-2.832
Hour20	2.975	0.461	-0.206	0.547	23.840	-9.703	1.013	-2.694
Hour21	2.984	0.340	-0.760	0.886	21.945	-8.847	0.921	-2.408
Hour22	2.772	0.415	-0.719	0.828	20.364	-7.990	0.832	-2.223
Hour23	2.555	0.501	-0.421	0.635	19.573	-7.511	0.782	-2.099
Hour24	2.368	0.569	-0.543	0.670	17.747	-6.497	0.675	-1.819

Indiana Michigan Power Company - Indiana
Commercial Cooling Peak Demand Model Standard Errors

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.062	0.097	0.084	0.152	0.234	0.240	0.024	0.270
Hour2	0.047	0.073	0.063	0.114	0.176	0.181	0.018	0.204
Hour3	0.045	0.070	0.061	0.110	0.170	0.175	0.018	0.197
Hour4	0.043	0.068	0.059	0.106	0.163	0.168	0.017	0.189
Hour5	0.044	0.069	0.060	0.108	0.166	0.171	0.017	0.192
Hour6	0.048	0.075	0.065	0.118	0.181	0.186	0.019	0.209
Hour7	0.051	0.080	0.070	0.126	0.194	0.199	0.020	0.224
Hour8	0.053	0.083	0.072	0.131	0.201	0.207	0.021	0.233
Hour9	0.064	0.100	0.087	0.158	0.243	0.250	0.025	0.281
Hour10	0.077	0.121	0.105	0.189	0.292	0.300	0.031	0.337
Hour11	0.086	0.135	0.117	0.211	0.326	0.335	0.034	0.376
Hour12	0.089	0.139	0.120	0.218	0.335	0.345	0.035	0.387
Hour13	0.093	0.145	0.126	0.228	0.351	0.361	0.037	0.406
Hour14	0.093	0.146	0.126	0.229	0.353	0.362	0.037	0.407
Hour15	0.095	0.149	0.129	0.233	0.360	0.370	0.038	0.415
Hour16	0.093	0.146	0.127	0.230	0.354	0.364	0.037	0.409
Hour17	0.090	0.141	0.122	0.221	0.341	0.350	0.036	0.393
Hour18	0.089	0.140	0.121	0.220	0.339	0.348	0.035	0.391
Hour19	0.087	0.136	0.118	0.214	0.330	0.339	0.035	0.381
Hour20	0.083	0.130	0.112	0.203	0.314	0.322	0.033	0.362
Hour21	0.077	0.121	0.105	0.189	0.292	0.300	0.031	0.337
Hour22	0.072	0.112	0.097	0.176	0.271	0.279	0.028	0.313
Hour23	0.068	0.107	0.093	0.168	0.259	0.266	0.027	0.299
Hour24	0.062	0.097	0.084	0.153	0.236	0.242	0.025	0.272

Indiana Michigan Power Company - Indiana
Commercial Cooling Peak Demand Model t-Statistics

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	39.432	4.124	-8.677	5.288	74.881	-27.506	27.884	-6.249
Hour2	38.600	10.924	-9.614	5.419	75.340	-21.474	21.700	-5.547
Hour3	39.087	11.088	-10.286	5.689	75.225	-20.761	20.894	-5.195
Hour4	40.611	11.298	-13.355	6.674	74.709	-19.747	19.831	-4.929
Hour5	43.816	9.616	-19.857	8.925	73.708	-19.980	20.063	-4.939
Hour6	44.468	8.492	-21.395	9.339	73.555	-21.179	21.396	-5.454
Hour7	43.872	7.109	-19.311	8.674	73.763	-22.853	23.197	-5.957
Hour8	41.492	8.780	-15.246	7.183	74.345	-22.965	23.605	-6.844
Hour9	39.453	7.079	-10.647	5.606	75.013	-25.834	26.682	-7.639
Hour10	38.197	5.072	-7.448	4.441	75.468	-28.302	29.207	-7.895
Hour11	37.935	3.953	-6.685	4.136	75.614	-29.484	30.436	-8.049
Hour12	36.718	4.171	-4.682	3.396	76.011	-29.996	30.998	-8.230
Hour13	37.059	3.742	-4.743	3.524	75.841	-30.007	30.984	-8.134
Hour14	36.330	3.707	-3.225	2.998	76.054	-30.335	31.332	-8.199
Hour15	36.552	3.462	-3.532	3.108	75.991	-30.392	31.356	-8.098
Hour16	36.459	3.847	-3.467	3.057	76.001	-30.161	31.166	-8.207
Hour17	37.272	3.864	-5.046	3.685	75.682	-29.769	30.734	-8.087
Hour18	37.454	2.916	-4.922	3.717	75.657	-30.237	31.065	-7.695
Hour19	37.371	2.739	-4.520	3.644	75.627	-30.237	30.979	-7.429
Hour20	35.943	3.556	-1.837	2.689	76.011	-30.098	30.840	-7.436
Hour21	38.738	2.813	-7.268	4.680	75.183	-29.486	30.136	-7.142
Hour22	38.744	3.705	-7.407	4.712	75.130	-28.681	29.323	-7.101
Hour23	37.353	4.679	-4.531	3.779	75.524	-28.197	28.810	-7.012
Hour24	38.065	5.838	-6.425	4.385	75.291	-26.815	27.332	-6.680

Indiana Michigan Power Company - Indiana
Commercial Cooling Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.983	0.095	2.653	1.613	26.84%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.984	0.113	2.000	1.192	42.70%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.984	0.115	1.932	1.149	26.38%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.984	0.121	1.855	1.098	22.97%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.984	0.128	1.885	1.114	34.03%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.984	0.128	2.056	1.219	24.83%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.984	0.120	2.202	1.313	53.55%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.984	0.117	2.285	1.370	24.11%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.984	0.105	2.756	1.669	40.24%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.983	0.096	3.315	2.019	56.93%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.983	0.092	3.697	2.259	20.79%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.983	0.090	3.806	2.330	20.51%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.983	0.089	3.987	2.440	20.88%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.983	0.088	4.001	2.451	21.33%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.983	0.088	4.081	2.499	70.23%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.983	0.089	4.016	2.459	21.13%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.983	0.090	3.865	2.363	24.87%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.983	0.088	3.843	2.352	17.36%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.983	0.087	3.745	2.292	20.59%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.983	0.087	3.559	2.178	24.82%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.983	0.090	3.312	2.023	33.28%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.983	0.093	3.075	1.873	26.55%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.983	0.092	2.941	1.789	90.72%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.983	0.097	2.674	1.620	20.02%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Commercial Heating Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	2.108	-1.026	0.187	0.087	0.718	12.972	-0.349	4.372
Hour2	1.851	-0.956	0.161	0.038	0.610	9.552	-0.215	2.539
Hour3	1.808	-0.976	0.217	0.024	0.502	9.991	-0.161	1.842
Hour4	1.831	-1.016	0.269	-0.002	0.408	10.667	-0.137	1.578
Hour5	1.865	-1.027	0.273	-0.001	0.421	11.000	-0.150	1.760
Hour6	1.769	-0.938	0.342	0.005	0.228	12.908	-0.195	2.578
Hour7	1.694	-0.862	0.354	0.009	0.140	13.590	-0.245	3.371
Hour8	1.710	-0.793	0.365	0.043	0.149	15.548	-0.373	5.220
Hour9	1.864	-0.768	0.318	0.080	0.451	17.673	-0.531	7.226
Hour10	2.104	-0.825	0.215	0.087	0.839	18.168	-0.660	8.743
Hour11	2.197	-0.926	0.115	0.078	0.900	15.293	-0.551	7.142
Hour12	2.097	-0.955	0.076	0.111	0.704	11.268	-0.408	5.276
Hour13	1.843	-0.883	0.066	0.124	0.481	7.993	-0.313	4.090
Hour14	1.612	-0.806	0.066	0.113	0.378	6.126	-0.253	3.320
Hour15	1.399	-0.725	0.063	0.102	0.296	4.675	-0.204	2.678
Hour16	1.243	-0.664	0.061	0.097	0.255	3.783	-0.172	2.257
Hour17	1.174	-0.636	0.055	0.115	0.221	3.341	-0.154	2.034
Hour18	1.159	-0.623	0.053	0.104	0.206	3.377	-0.153	2.023
Hour19	1.268	-0.664	0.053	0.103	0.227	4.072	-0.174	2.314
Hour20	1.570	-0.796	0.065	0.104	0.346	6.090	-0.243	3.201
Hour21	1.788	-0.907	0.076	0.118	0.417	7.330	-0.277	3.625
Hour22	1.974	-0.993	0.092	0.102	0.507	8.603	-0.298	3.848
Hour23	2.093	-1.027	0.105	0.098	0.644	10.359	-0.317	3.991
Hour24	2.200	-1.071	0.132	0.080	0.733	11.622	-0.333	4.143

Indiana Michigan Power Company - Indiana
Commercial Heating Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.034	0.043	0.016	0.003	0.127	0.147	0.014	0.139
Hour2	0.027	0.035	0.013	0.002	0.104	0.120	0.011	0.113
Hour3	0.027	0.036	0.013	0.002	0.104	0.121	0.011	0.114
Hour4	0.029	0.037	0.013	0.003	0.110	0.127	0.012	0.119
Hour5	0.030	0.038	0.014	0.003	0.112	0.130	0.012	0.122
Hour6	0.033	0.043	0.016	0.003	0.127	0.147	0.014	0.138
Hour7	0.035	0.045	0.016	0.003	0.131	0.152	0.014	0.143
Hour8	0.038	0.049	0.018	0.003	0.145	0.167	0.016	0.158
Hour9	0.041	0.053	0.019	0.004	0.157	0.181	0.017	0.171
Hour10	0.041	0.053	0.019	0.004	0.156	0.181	0.017	0.170
Hour11	0.037	0.048	0.017	0.003	0.140	0.162	0.015	0.153
Hour12	0.033	0.042	0.015	0.003	0.123	0.143	0.013	0.135
Hour13	0.027	0.035	0.013	0.002	0.103	0.119	0.011	0.112
Hour14	0.023	0.029	0.011	0.002	0.087	0.100	0.009	0.094
Hour15	0.019	0.025	0.009	0.002	0.073	0.084	0.008	0.080
Hour16	0.017	0.022	0.008	0.001	0.064	0.074	0.007	0.069
Hour17	0.016	0.021	0.007	0.001	0.061	0.070	0.007	0.066
Hour18	0.016	0.020	0.007	0.001	0.060	0.069	0.006	0.065
Hour19	0.017	0.023	0.008	0.002	0.066	0.076	0.007	0.072
Hour20	0.022	0.029	0.010	0.002	0.084	0.097	0.009	0.092
Hour21	0.025	0.033	0.012	0.002	0.097	0.112	0.010	0.105
Hour22	0.028	0.037	0.013	0.002	0.107	0.124	0.012	0.117
Hour23	0.031	0.040	0.014	0.003	0.118	0.136	0.013	0.129
Hour24	0.033	0.043	0.015	0.003	0.126	0.145	0.014	0.137

Indiana Michigan Power Company - Indiana
Commercial Heating Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	62.899	-23.651	11.979	29.328	5.642	88.196	-25.464	31.527
Hour2	67.780	-27.050	12.623	15.685	5.885	79.695	-19.245	22.471
Hour3	65.792	-27.445	16.920	10.058	4.813	82.831	-14.283	16.197
Hour4	63.445	-27.186	19.989	-0.828	3.727	84.198	-11.578	13.208
Hour5	63.019	-26.815	19.819	-0.404	3.751	84.694	-12.411	14.373
Hour6	52.901	-21.678	21.970	1.545	1.795	87.946	-14.265	18.630
Hour7	49.060	-19.286	22.005	3.023	1.067	89.676	-17.305	23.593
Hour8	44.914	-16.094	20.592	12.677	1.030	93.044	-23.942	33.126
Hour9	45.160	-14.377	16.539	22.081	2.880	97.554	-31.438	42.300
Hour10	51.113	-15.489	11.213	23.816	5.368	100.576	-39.161	51.330
Hour11	59.405	-19.347	6.696	23.925	6.410	94.220	-36.355	46.664
Hour12	64.529	-22.712	4.988	38.641	5.708	78.989	-30.684	39.228
Hour13	68.254	-25.267	5.249	52.068	4.694	67.427	-28.259	36.591
Hour14	70.711	-27.321	6.179	56.276	4.370	61.234	-27.103	35.192
Hour15	72.767	-29.143	7.039	60.173	4.059	55.418	-25.860	33.666
Hour16	74.081	-30.593	7.846	65.442	4.009	51.376	-25.022	32.509
Hour17	73.658	-30.852	7.429	81.609	3.650	47.764	-23.640	30.841
Hour18	73.770	-30.654	7.276	75.206	3.461	48.977	-23.731	31.115
Hour19	72.834	-29.459	6.591	67.316	3.429	53.311	-24.428	32.128
Hour20	70.978	-27.819	6.332	53.487	4.123	62.733	-26.826	34.974
Hour21	70.323	-27.566	6.378	52.573	4.323	65.687	-26.592	34.455
Hour22	69.783	-27.119	6.985	40.940	4.723	69.287	-25.725	32.864
Hour23	67.404	-25.554	7.272	35.657	5.463	75.998	-24.897	31.054
Hour24	66.500	-25.005	8.556	27.456	5.832	80.021	-24.588	30.254

Indiana Michigan Power Company - Indiana
Commercial Heating Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.995	0.228	1.337	0.820	67.81%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.994	0.320	1.089	0.677	35.94%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.995	0.199	1.096	0.652	90.91%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.995	0.142	1.151	0.665	75.17%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.995	0.140	1.180	0.683	37.13%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.995	0.102	1.334	0.764	40.41%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.994	0.099	1.377	0.796	33.67%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.994	0.100	1.519	0.893	26.56%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.994	0.109	1.647	0.986	25.07%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.995	0.143	1.642	1.012	35.38%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.994	0.275	1.475	0.940	31.58%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.994	0.432	1.297	0.830	65.02%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.994	0.515	1.077	0.679	79.38%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.993	0.563	0.909	0.569	46.57%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.993	0.612	0.767	0.478	235.13%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.993	0.654	0.669	0.415	55.87%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.993	0.701	0.636	0.392	49.52%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.993	0.688	0.627	0.387	46.20%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.993	0.646	0.694	0.430	47.91%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.993	0.573	0.882	0.554	36.94%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.993	0.558	1.014	0.639	52.82%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.994	0.518	1.129	0.715	87.37%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.994	0.448	1.239	0.787	40.52%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.994	0.384	1.320	0.836	51.87%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	2.946	0.648	-1.712	1.445	1.915	4.953	0.373	-6.712	347.805
Hour2	2.756	-0.044	-0.967	2.587	1.445	5.079	0.427	-7.456	353.750
Hour3	2.457	0.357	-1.015	2.349	1.994	5.259	0.413	-7.800	358.669
Hour4	2.343	0.410	-0.931	2.074	2.286	5.370	0.420	-7.964	353.053
Hour5	2.652	0.015	-0.779	1.890	2.375	5.321	0.412	-7.942	363.548
Hour6	2.615	0.025	-0.786	2.046	1.398	5.068	0.492	-7.312	387.323
Hour7	2.865	-0.410	-0.571	2.006	1.372	3.943	0.476	-5.413	408.090
Hour8	2.926	-0.590	-0.501	2.075	1.531	3.020	0.546	-4.318	475.468
Hour9	2.502	-0.449	-0.436	1.969	1.480	2.998	0.635	-4.277	569.616
Hour10	1.388	0.910	-1.007	3.207	0.139	1.564	0.555	-2.005	550.836
Hour11	2.062	0.694	-1.356	4.107	-0.633	1.103	0.542	-1.078	518.514
Hour12	2.991	0.490	-1.931	4.882	-0.841	0.666	0.415	-0.493	507.868
Hour13	3.895	0.447	-2.690	4.856	-0.546	0.077	0.304	-0.026	512.687
Hour14	4.412	0.470	-3.213	5.303	-0.552	0.101	0.423	-1.347	494.181
Hour15	4.662	0.871	-3.804	5.598	-0.619	-0.298	0.553	-1.512	488.294
Hour16	5.050	0.878	-4.143	6.290	-1.661	-0.906	0.511	-0.630	482.972
Hour17	5.372	0.850	-4.449	6.581	-2.254	-0.192	0.413	-0.879	486.518
Hour18	5.609	0.805	-4.697	6.149	-1.643	0.112	0.432	-1.061	501.793
Hour19	5.288	1.033	-4.582	5.204	-1.133	1.804	0.446	-2.454	529.652
Hour20	5.141	0.737	-4.060	4.882	-0.608	2.352	0.358	-3.306	521.159
Hour21	4.595	0.700	-3.513	3.737	0.704	4.216	0.379	-5.761	487.215
Hour22	4.024	0.438	-2.792	3.171	1.061	4.477	0.548	-6.273	460.545
Hour23	3.394	0.495	-2.143	3.169	0.628	3.572	0.493	-6.024	376.744
Hour24	2.968	0.671	-1.827	2.214	1.410	4.717	0.405	-6.713	343.358

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	324.975	-7.522	5.980	-19.445	-11.700	-15.570	-12.712	10.959	28.364	34.768
Hour2	340.716	-12.850	18.008	-8.485	-1.375	-8.043	-5.192	19.421	34.773	44.807
Hour3	345.121	-10.164	20.131	-5.659	2.638	-4.230	-1.525	22.926	37.548	46.195
Hour4	338.648	-7.966	20.068	-7.688	2.178	-6.686	-3.811	18.175	32.899	41.030
Hour5	346.289	-4.235	20.188	-8.189	3.667	-5.358	-3.137	17.457	30.806	37.164
Hour6	358.432	-1.149	19.079	-9.584	5.576	-1.825	-0.181	21.362	36.009	38.284
Hour7	365.517	1.648	19.023	-10.799	5.111	-4.534	-2.826	20.048	37.110	38.645
Hour8	404.720	-2.663	21.086	-5.720	11.474	6.079	0.281	21.256	45.022	52.531
Hour9	466.153	-10.263	19.667	-5.927	4.644	-9.547	-10.379	19.155	35.604	29.391
Hour10	431.530	-27.768	21.300	-10.233	-2.398	-16.534	-15.228	11.411	27.638	22.627
Hour11	399.056	-48.915	15.890	-10.704	-5.873	-18.860	-17.019	5.649	23.692	26.102
Hour12	391.422	-57.811	14.502	-9.497	-11.007	-21.972	-21.060	1.919	19.226	28.288
Hour13	401.191	-57.870	15.090	-5.982	-7.808	-14.067	-12.430	10.278	26.912	38.226
Hour14	375.851	-46.972	14.918	-7.373	-11.197	-14.338	-13.467	7.004	23.240	37.660
Hour15	356.957	-35.428	14.512	-6.569	-14.817	-16.639	-14.543	5.332	20.970	38.365
Hour16	355.391	-28.159	13.643	-5.928	-16.188	-15.546	-14.111	6.774	23.003	40.566
Hour17	370.835	-27.092	14.091	-7.317	-16.995	-13.599	-13.171	11.763	28.366	41.630
Hour18	403.292	-26.754	10.982	-12.162	-19.446	-13.351	-11.448	14.354	29.448	40.286
Hour19	460.576	-25.534	4.348	-30.436	-34.668	-24.332	-17.219	9.511	21.674	28.256
Hour20	465.423	-28.730	16.929	-8.129	-17.291	-6.491	0.490	25.948	39.659	44.121
Hour21	433.747	-26.126	16.688	-3.222	-0.633	-3.292	2.923	27.439	41.633	48.669
Hour22	406.562	-20.003	14.204	-6.270	0.913	0.676	-3.858	13.803	28.713	44.638
Hour23	332.742	-10.983	9.253	-16.719	-13.555	-10.370	-5.987	9.796	26.934	45.463
Hour24	314.945	-11.292	5.391	-21.847	-17.431	-19.598	-16.484	6.469	24.889	33.851

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Coefficients

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	13.072	-5.019	-8.959	0.000	-18.572	-5.496	2.366	-3.097
Hour2	18.651	-5.214	-8.732	0.000	-13.680	-4.782	-0.149	-2.734
Hour3	21.250	-5.212	-6.287	0.000	-13.216	-5.596	-1.420	-1.515
Hour4	16.843	-5.500	-6.666	0.000	-12.616	-6.658	-1.057	-3.010
Hour5	16.138	-5.822	-6.810	0.000	-12.738	-6.911	-1.822	-3.316
Hour6	18.110	-4.614	-6.368	0.000	-13.718	-8.173	-2.911	-3.590
Hour7	17.366	-4.235	-5.790	0.000	-14.647	-8.152	-2.438	-5.925
Hour8	26.399	0.645	-1.996	0.000	-15.364	-9.773	-5.055	-4.089
Hour9	10.190	-9.707	-6.651	0.000	-19.130	-9.978	-10.025	14.325
Hour10	1.797	-13.672	-8.446	0.000	-23.560	-8.084	-5.108	8.561
Hour11	9.882	-11.011	-5.060	0.000	-26.221	-3.601	-0.150	4.649
Hour12	15.558	-10.451	-3.598	0.000	-26.758	0.999	1.778	7.796
Hour13	27.227	-2.596	-1.058	0.000	-27.658	4.814	1.528	7.832
Hour14	31.765	2.072	-0.770	0.000	-27.742	6.812	3.242	7.324
Hour15	35.310	4.878	0.997	0.000	-28.222	8.493	3.995	9.883
Hour16	40.123	9.038	1.020	0.000	-27.723	9.134	3.978	9.506
Hour17	41.694	10.268	0.684	0.000	-26.533	8.990	3.094	8.356
Hour18	38.712	6.703	-0.473	0.000	-26.380	8.945	1.023	5.998
Hour19	23.888	-10.443	-2.604	0.000	-25.644	7.884	-1.867	-2.956
Hour20	37.200	13.614	5.105	0.000	-24.544	5.295	-2.553	-20.924
Hour21	43.761	37.116	4.569	0.000	-22.659	3.110	-1.055	-21.428
Hour22	46.313	16.539	1.213	0.000	-21.026	0.911	-0.798	0.444
Hour23	30.550	4.903	-3.921	0.000	-20.333	-1.527	4.398	2.176
Hour24	16.285	-2.637	-7.730	0.000	-18.616	-4.006	4.742	-0.695

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	0.211	0.293	0.127	0.232	0.332	0.333	0.032	0.518	8.608
Hour2	0.223	0.309	0.134	0.245	0.351	0.352	0.034	0.547	9.088
Hour3	0.206	0.286	0.124	0.226	0.324	0.325	0.032	0.505	8.400
Hour4	0.193	0.268	0.116	0.212	0.304	0.305	0.030	0.474	7.876
Hour5	0.189	0.262	0.114	0.208	0.297	0.298	0.029	0.464	7.709
Hour6	0.195	0.271	0.117	0.214	0.307	0.308	0.030	0.479	7.961
Hour7	0.206	0.285	0.124	0.226	0.324	0.325	0.032	0.505	8.398
Hour8	0.221	0.307	0.133	0.243	0.348	0.349	0.034	0.542	9.018
Hour9	0.244	0.338	0.146	0.268	0.384	0.385	0.038	0.598	9.946
Hour10	0.275	0.381	0.165	0.302	0.432	0.434	0.042	0.674	11.205
Hour11	0.290	0.403	0.174	0.319	0.457	0.459	0.045	0.712	11.844
Hour12	0.294	0.408	0.177	0.323	0.463	0.464	0.045	0.721	11.988
Hour13	0.301	0.417	0.181	0.330	0.473	0.475	0.046	0.738	12.272
Hour14	0.304	0.422	0.183	0.334	0.479	0.481	0.047	0.746	12.413
Hour15	0.313	0.434	0.188	0.344	0.493	0.495	0.048	0.768	12.775
Hour16	0.314	0.435	0.189	0.345	0.494	0.496	0.048	0.770	12.807
Hour17	0.315	0.437	0.190	0.346	0.496	0.498	0.049	0.774	12.866
Hour18	0.330	0.457	0.198	0.362	0.519	0.521	0.051	0.809	13.452
Hour19	0.315	0.437	0.189	0.346	0.496	0.498	0.049	0.773	12.861
Hour20	0.314	0.435	0.189	0.345	0.494	0.496	0.048	0.770	12.810
Hour21	0.298	0.413	0.179	0.327	0.469	0.471	0.046	0.731	12.162
Hour22	0.267	0.371	0.161	0.294	0.421	0.422	0.041	0.656	10.906
Hour23	0.238	0.330	0.143	0.261	0.375	0.376	0.037	0.584	9.711
Hour24	0.221	0.307	0.133	0.243	0.348	0.349	0.034	0.542	9.017

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	8.663	1.530	0.975	1.445	2.219	2.879	3.465	3.678	3.500	2.970
Hour2	9.147	1.615	1.030	1.526	2.343	3.040	3.658	3.883	3.696	3.136
Hour3	8.454	1.493	0.952	1.410	2.166	2.810	3.381	3.589	3.416	2.899
Hour4	7.927	1.400	0.893	1.322	2.031	2.635	3.170	3.365	3.203	2.718
Hour5	7.759	1.370	0.874	1.294	1.988	2.579	3.103	3.294	3.135	2.660
Hour6	8.013	1.415	0.902	1.337	2.053	2.663	3.205	3.401	3.238	2.747
Hour7	8.452	1.492	0.952	1.410	2.165	2.809	3.380	3.588	3.415	2.898
Hour8	9.076	1.603	1.022	1.514	2.325	3.016	3.630	3.853	3.667	3.112
Hour9	10.010	1.768	1.127	1.670	2.564	3.327	4.003	4.249	4.045	3.432
Hour10	11.278	1.991	1.270	1.881	2.889	3.748	4.511	4.787	4.557	3.867
Hour11	11.921	2.105	1.342	1.988	3.054	3.962	4.768	5.060	4.817	4.087
Hour12	12.066	2.130	1.359	2.013	3.091	4.010	4.826	5.122	4.875	4.137
Hour13	12.352	2.181	1.391	2.060	3.164	4.105	4.940	5.243	4.991	4.235
Hour14	12.494	2.206	1.407	2.084	3.200	4.152	4.997	5.303	5.048	4.283
Hour15	12.858	2.270	1.448	2.145	3.294	4.273	5.142	5.458	5.195	4.408
Hour16	12.890	2.276	1.451	2.150	3.302	4.284	5.155	5.472	5.208	4.419
Hour17	12.949	2.286	1.458	2.160	3.317	4.303	5.179	5.497	5.232	4.440
Hour18	13.539	2.391	1.524	2.258	3.468	4.500	5.415	5.747	5.471	4.642
Hour19	12.944	2.286	1.457	2.159	3.316	4.302	5.177	5.495	5.230	4.438
Hour20	12.893	2.277	1.452	2.151	3.303	4.285	5.156	5.473	5.209	4.420
Hour21	12.241	2.161	1.378	2.042	3.136	4.068	4.896	5.196	4.946	4.197
Hour22	10.976	1.938	1.236	1.831	2.812	3.648	4.390	4.659	4.435	3.763
Hour23	9.774	1.726	1.101	1.630	2.504	3.248	3.909	4.149	3.949	3.351
Hour24	9.076	1.603	1.022	1.514	2.325	3.016	3.630	3.853	3.667	3.112

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Standard Errors

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	2.504	1.983	1.030	0.000	1.639	1.661	0.821	1.280
Hour2	2.644	2.093	1.088	0.000	1.731	1.754	0.867	1.352
Hour3	2.444	1.935	1.005	0.000	1.600	1.621	0.801	1.249
Hour4	2.292	1.814	0.943	0.000	1.500	1.520	0.751	1.172
Hour5	2.243	1.776	0.923	0.000	1.468	1.488	0.735	1.147
Hour6	2.316	1.834	0.953	0.000	1.516	1.536	0.759	1.184
Hour7	2.443	1.934	1.005	0.000	1.599	1.620	0.801	1.249
Hour8	2.624	2.077	1.079	0.000	1.717	1.740	0.860	1.341
Hour9	2.894	2.291	1.190	0.000	1.894	1.919	0.948	1.479
Hour10	3.260	2.581	1.341	0.000	2.134	2.162	1.068	1.667
Hour11	3.446	2.728	1.418	0.000	2.256	2.285	1.129	1.762
Hour12	3.488	2.761	1.435	0.000	2.283	2.313	1.143	1.783
Hour13	3.571	2.827	1.469	0.000	2.337	2.368	1.170	1.826
Hour14	3.612	2.859	1.486	0.000	2.364	2.395	1.184	1.846
Hour15	3.717	2.943	1.529	0.000	2.433	2.465	1.218	1.900
Hour16	3.726	2.950	1.533	0.000	2.439	2.471	1.221	1.905
Hour17	3.743	2.963	1.540	0.000	2.450	2.482	1.227	1.914
Hour18	3.914	3.098	1.610	0.000	2.562	2.596	1.283	2.001
Hour19	3.742	2.962	1.539	0.000	2.449	2.482	1.226	1.913
Hour20	3.727	2.951	1.533	0.000	2.440	2.472	1.221	1.905
Hour21	3.539	2.801	1.456	0.000	2.316	2.347	1.160	1.809
Hour22	3.173	2.512	1.305	0.000	2.077	2.104	1.040	1.622
Hour23	2.826	2.237	1.162	0.000	1.849	1.874	0.926	1.445
Hour24	2.624	2.077	1.079	0.000	1.717	1.740	0.860	1.341

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	13.956	2.215	-13.505	6.237	5.767	14.863	11.491	-12.966	40.407
Hour2	12.367	-0.143	-7.221	10.573	4.122	14.437	12.447	-13.642	38.924
Hour3	11.931	1.251	-8.207	10.387	6.154	16.173	13.035	-15.442	42.699
Hour4	12.132	1.531	-8.024	9.778	7.524	17.612	14.125	-16.813	44.825
Hour5	14.028	0.059	-6.863	9.106	7.987	17.831	14.162	-17.132	47.158
Hour6	13.396	0.092	-6.700	9.547	4.553	16.444	16.364	-15.273	48.653
Hour7	13.915	-1.436	-4.615	8.872	4.235	12.128	15.030	-10.718	48.595
Hour8	13.233	-1.926	-3.771	8.546	4.402	8.652	16.056	-7.963	52.727
Hour9	10.259	-1.328	-2.978	7.351	3.856	7.788	16.925	-7.151	57.273
Hour10	5.052	2.389	-6.102	10.629	0.323	3.606	13.132	-2.975	49.158
Hour11	7.100	1.725	-7.771	12.879	-1.384	2.406	12.138	-1.514	43.778
Hour12	10.175	1.202	-10.933	15.127	-1.819	1.435	9.177	-0.684	42.364
Hour13	12.944	1.071	-14.880	14.697	-1.152	0.162	6.559	-0.036	41.775
Hour14	14.494	1.114	-17.572	15.866	-1.153	0.210	9.037	-1.805	39.811
Hour15	14.882	2.004	-20.218	16.275	-1.255	-0.602	11.476	-1.968	38.223
Hour16	16.082	2.017	-21.965	18.241	-3.361	-1.828	10.571	-0.817	37.712
Hour17	17.028	1.943	-23.478	18.999	-4.540	-0.385	8.499	-1.136	37.816
Hour18	17.003	1.761	-23.706	16.978	-3.166	0.216	8.512	-1.312	37.302
Hour19	16.769	2.363	-24.186	15.029	-2.283	3.624	9.201	-3.173	41.183
Hour20	16.367	1.692	-21.516	14.156	-1.231	4.743	7.412	-4.292	40.684
Hour21	15.407	1.693	-19.609	11.411	1.501	8.954	8.255	-7.877	40.059
Hour22	15.046	1.181	-17.378	10.800	2.521	10.604	13.309	-9.565	42.230
Hour23	14.252	1.499	-14.983	12.121	1.676	9.501	13.443	-10.314	38.794
Hour24	13.421	2.189	-13.756	9.120	4.052	13.514	11.898	-12.379	38.077

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	37.511	-4.917	6.130	-13.456	-5.272	-5.408	-3.669	2.980	8.103	11.705
Hour2	37.249	-7.956	17.484	-5.561	-0.587	-2.646	-1.419	5.002	9.409	14.287
Hour3	40.822	-6.809	21.147	-4.013	1.218	-1.506	-0.451	6.388	10.992	15.937
Hour4	42.719	-5.691	22.482	-5.814	1.073	-2.538	-1.202	5.401	10.271	15.096
Hour5	44.630	-3.091	23.108	-6.328	1.845	-2.078	-1.011	5.300	9.826	13.970
Hour6	44.734	-0.812	21.147	-7.171	2.717	-0.685	-0.057	6.281	11.123	13.936
Hour7	43.245	1.104	19.988	-7.660	2.360	-1.614	-0.836	5.588	10.866	13.336
Hour8	44.593	-1.662	20.633	-3.779	4.935	2.015	0.077	5.517	12.277	16.882
Hour9	46.569	-5.806	17.449	-3.550	1.811	-2.870	-2.593	4.508	8.803	8.564
Hour10	38.263	-13.944	16.773	-5.440	-0.830	-4.411	-3.376	2.384	6.065	5.852
Hour11	33.476	-23.239	11.838	-5.383	-1.923	-4.761	-3.570	1.116	4.919	6.386
Hour12	32.441	-27.135	10.674	-4.719	-3.561	-5.479	-4.364	0.375	3.944	6.838
Hour13	32.480	-26.533	10.850	-2.903	-2.468	-3.427	-2.516	1.960	5.392	9.026
Hour14	30.084	-21.293	10.605	-3.538	-3.499	-3.453	-2.695	1.321	4.604	8.792
Hour15	27.762	-15.605	10.024	-3.063	-4.499	-3.894	-2.828	0.977	4.036	8.703
Hour16	27.572	-12.372	9.400	-2.757	-4.903	-3.629	-2.737	1.238	4.417	9.179
Hour17	28.638	-11.849	9.664	-3.387	-5.123	-3.160	-2.543	2.140	5.422	9.377
Hour18	29.787	-11.191	7.204	-5.385	-5.607	-2.967	-2.114	2.498	5.383	8.679
Hour19	35.582	-11.172	2.983	-14.096	-10.455	-5.656	-3.326	1.731	4.144	6.367
Hour20	36.099	-12.620	11.661	-3.780	-5.235	-1.515	0.095	4.741	7.613	9.981
Hour21	35.434	-12.087	12.107	-1.578	-0.202	-0.809	0.597	5.281	8.417	11.596
Hour22	37.040	-10.321	11.492	-3.424	0.325	0.185	-0.879	2.962	6.474	11.861
Hour23	34.043	-6.363	8.408	-10.255	-5.414	-3.192	-1.532	2.361	6.820	13.566
Hour24	34.702	-7.047	5.275	-14.431	-7.497	-6.497	-4.541	1.679	6.787	10.879

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model t-Statistics

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	5.219	-2.532	-8.696	0.000	-11.329	-3.309	2.883	-2.419
Hour2	7.053	-2.491	-8.028	0.000	-7.904	-2.727	-0.172	-2.022
Hour3	8.695	-2.694	-6.254	0.000	-8.261	-3.453	-1.773	-1.212
Hour4	7.350	-3.032	-7.071	0.000	-8.410	-4.381	-1.408	-2.569
Hour5	7.195	-3.279	-7.380	0.000	-8.676	-4.646	-2.479	-2.892
Hour6	7.818	-2.516	-6.683	0.000	-9.048	-5.321	-3.835	-3.031
Hour7	7.107	-2.189	-5.761	0.000	-9.159	-5.031	-3.045	-4.743
Hour8	10.062	0.311	-1.849	0.000	-8.946	-5.617	-5.879	-3.049
Hour9	3.521	-4.237	-5.587	0.000	-10.100	-5.200	-10.570	9.683
Hour10	0.551	-5.297	-6.297	0.000	-11.040	-3.739	-4.781	5.136
Hour11	2.868	-4.036	-3.569	0.000	-11.624	-1.576	-0.133	2.639
Hour12	4.460	-3.785	-2.508	0.000	-11.720	0.432	1.556	4.372
Hour13	7.625	-0.918	-0.720	0.000	-11.834	2.033	1.305	4.290
Hour14	8.795	0.725	-0.518	0.000	-11.735	2.844	2.739	3.967
Hour15	9.500	1.658	0.652	0.000	-11.600	3.446	3.280	5.201
Hour16	10.767	3.064	0.665	0.000	-11.366	3.696	3.257	4.990
Hour17	11.138	3.465	0.444	0.000	-10.829	3.621	2.522	4.366
Hour18	9.891	2.163	-0.294	0.000	-10.297	3.446	0.797	2.998
Hour19	6.384	-3.525	-1.692	0.000	-10.470	3.177	-1.523	-1.545
Hour20	9.981	4.614	3.330	0.000	-10.061	2.142	-2.090	-10.981
Hour21	12.366	13.249	3.139	0.000	-9.783	1.325	-0.909	-11.844
Hour22	14.595	6.584	0.929	0.000	-10.124	0.433	-0.768	0.273
Hour23	10.812	2.192	-3.373	0.000	-10.994	-0.815	4.749	1.506
Hour24	6.207	-1.270	-7.162	0.000	-10.840	-2.302	5.515	-0.518

Indiana Michigan Power Company - Indiana
Commercial Other Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1799	0.925	0.080	7.975	6.181	1.66%	0	0.000	0.00%	0.000
Hour2	1826	1799	0.924	0.643	8.420	6.898	1.90%	0	0.000	0.00%	0.000
Hour3	1826	1799	0.934	0.455	7.782	6.322	1.77%	0	0.000	0.00%	0.000
Hour4	1826	1799	0.939	0.277	7.297	5.816	1.65%	0	0.000	0.00%	0.000
Hour5	1826	1799	0.940	0.178	7.142	5.605	1.59%	0	0.000	0.00%	0.000
Hour6	1826	1799	0.935	0.122	7.376	5.763	1.60%	0	0.000	0.00%	0.000
Hour7	1826	1799	0.941	0.107	7.780	6.071	1.60%	0	0.000	0.00%	0.000
Hour8	1826	1799	0.956	0.097	8.354	6.502	1.58%	0	0.000	0.00%	0.000
Hour9	1826	1799	0.968	0.120	9.214	7.190	1.65%	0	0.000	0.00%	0.000
Hour10	1826	1799	0.967	0.249	10.381	8.212	1.78%	0	0.000	0.00%	0.000
Hour11	1826	1799	0.965	0.243	10.973	8.647	1.78%	0	0.000	0.00%	0.000
Hour12	1826	1799	0.966	0.222	11.107	8.684	1.73%	0	0.000	0.00%	0.000
Hour13	1826	1799	0.966	0.257	11.370	8.880	1.75%	0	0.000	0.00%	0.000
Hour14	1826	1799	0.969	0.312	11.500	9.025	1.78%	0	0.000	0.00%	0.000
Hour15	1826	1799	0.972	0.399	11.836	9.335	1.84%	0	0.000	0.00%	0.000
Hour16	1826	1799	0.973	0.455	11.865	9.372	1.87%	0	0.000	0.00%	0.000
Hour17	1826	1799	0.970	0.541	11.919	9.450	1.90%	0	0.000	0.00%	0.000
Hour18	1826	1799	0.961	0.726	12.463	9.956	2.04%	0	0.000	0.00%	0.000
Hour19	1826	1799	0.944	0.693	11.915	9.552	2.03%	0	0.000	0.00%	0.000
Hour20	1826	1799	0.933	0.762	11.868	9.603	2.07%	0	0.000	0.00%	0.000
Hour21	1826	1799	0.926	0.699	11.268	9.108	1.99%	0	0.000	0.00%	0.000
Hour22	1826	1799	0.927	0.454	10.104	8.003	1.79%	0	0.000	0.00%	0.000
Hour23	1826	1799	0.941	0.133	8.997	6.991	1.63%	0	0.000	0.00%	0.000
Hour24	1826	1799	0.933	0.124	8.354	6.459	1.63%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Coefficients

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	702.568	-0.333	0.045	0.156	-3.297	5.722	2.683	0.492	-6.341
Hour2	674.606	-0.067	-0.684	0.555	-1.368	3.188	1.233	0.456	-4.361
Hour3	704.467	0.544	-0.848	0.174	-2.944	6.209	2.608	0.337	-6.894
Hour4	648.562	-0.398	-0.128	0.272	-2.368	5.225	2.374	0.481	-6.235
Hour5	644.429	0.629	-0.962	0.222	-2.119	5.043	0.979	0.392	-5.041
Hour6	723.062	-0.281	0.310	-0.293	-1.946	3.749	0.386	0.663	-3.360
Hour7	757.371	1.936	-3.205	0.754	-1.475	4.167	1.153	1.050	-6.050
Hour8	766.321	1.804	-3.187	0.529	-3.498	6.478	2.225	1.511	-5.912
Hour9	836.589	0.872	-1.858	-0.298	-3.234	6.283	1.146	1.706	-3.172
Hour10	845.896	-0.366	-0.867	-0.085	-1.998	5.143	2.958	1.696	-6.241
Hour11	799.053	1.176	-2.381	0.091	-2.165	5.728	4.166	1.596	-8.732
Hour12	842.621	0.237	-0.622	-0.740	-2.533	5.896	3.199	1.502	-6.363
Hour13	826.508	0.840	-0.113	-1.620	-4.028	7.603	2.284	1.414	-5.111
Hour14	771.674	0.521	0.002	-1.150	-3.277	6.507	1.017	1.419	-2.923
Hour15	785.309	1.327	-1.240	-0.723	-1.984	5.408	2.046	1.329	-4.989
Hour16	796.112	3.356	-4.218	0.432	-1.783	3.796	2.266	1.142	-4.904
Hour17	758.677	3.263	-4.104	0.388	-2.279	4.078	2.611	1.073	-4.935
Hour18	747.725	2.102	-2.230	-0.408	-1.306	2.980	1.864	1.035	-3.226
Hour19	789.718	1.533	-2.294	0.149	-0.843	3.847	3.300	1.016	-7.741
Hour20	800.695	-0.400	-0.042	-0.302	-0.835	3.539	2.713	0.929	-7.522
Hour21	781.817	0.215	-0.652	-0.170	-0.870	2.674	0.972	0.811	-2.715
Hour22	732.752	0.678	-1.546	0.447	-0.183	2.630	2.796	0.714	-5.800
Hour23	704.646	0.564	-2.639	1.653	-0.451	2.592	3.684	0.565	-6.676
Hour24	707.091	0.451	-1.613	0.893	0.071	1.032	-0.065	0.228	-1.113

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	-91.545	-69.311	-43.055	-0.194	39.161	54.835	51.067	69.592	86.939	110.145
Hour2	-83.939	-74.378	-32.545	-0.413	34.669	49.438	43.467	60.971	72.918	91.781
Hour3	-74.646	-87.064	-23.066	5.235	39.648	51.334	48.537	65.928	81.123	98.749
Hour4	-80.386	-89.319	-20.080	0.254	35.478	44.950	32.979	46.200	58.437	72.867
Hour5	-84.461	-90.346	-13.119	5.524	29.883	41.196	27.051	41.353	50.928	63.164
Hour6	-117.015	-93.366	-13.786	2.825	39.929	54.089	46.934	71.491	93.689	108.657
Hour7	-153.240	-110.626	2.936	7.882	39.035	54.715	45.375	74.967	90.985	113.351
Hour8	-193.513	-120.857	17.237	6.422	31.728	38.230	30.921	58.861	66.339	85.087
Hour9	-208.004	-118.097	19.679	5.334	35.313	45.075	38.596	69.818	80.735	103.307
Hour10	-209.389	-123.152	17.759	6.481	33.594	48.445	45.100	81.694	100.558	121.055
Hour11	-206.435	-128.866	24.275	9.007	37.131	48.823	38.777	64.502	72.853	88.148
Hour12	-200.238	-117.581	20.445	6.187	33.121	45.691	48.375	81.430	97.101	112.486
Hour13	-199.853	-110.111	24.178	8.867	34.990	42.900	39.066	70.750	74.587	93.193
Hour14	-200.455	-113.968	30.225	13.183	36.670	40.010	35.626	68.173	76.738	92.637
Hour15	-184.169	-106.705	29.611	12.928	37.265	47.286	46.968	79.181	88.574	104.237
Hour16	-160.724	-104.740	28.978	10.471	38.209	50.075	43.342	79.296	98.521	121.936
Hour17	-140.541	-99.486	25.869	5.127	36.587	44.682	38.086	63.757	80.015	98.480
Hour18	-129.581	-90.298	18.671	-4.760	34.301	42.851	34.845	56.675	69.113	84.680
Hour19	-124.682	-88.677	14.530	-3.672	35.073	46.691	40.817	67.745	95.361	110.932
Hour20	-107.931	-97.474	21.244	5.688	36.885	55.812	53.160	77.395	107.610	129.657
Hour21	-104.204	-91.799	21.621	9.028	40.598	54.551	52.199	76.430	99.435	117.799
Hour22	-87.912	-92.807	35.746	23.545	47.091	62.088	58.249	85.695	102.383	117.046
Hour23	-67.180	-98.391	47.735	35.624	47.403	59.199	55.397	78.154	99.311	123.858
Hour24	-29.387	-112.646	63.141	53.314	55.159	70.640	66.377	86.901	111.456	130.400

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Coefficients

Variable	July	August	September	October	November	December	HLight	DST
Hour1	95.128	121.446	91.051	23.614	12.933	0.000	1.307	-16.972
Hour2	74.427	105.717	75.364	15.276	14.201	0.000	3.330	-18.429
Hour3	82.751	110.257	74.899	12.246	15.034	0.000	0.148	-12.021
Hour4	57.241	94.278	58.998	6.331	14.445	0.000	6.053	-12.529
Hour5	46.053	83.044	54.477	3.122	12.310	0.000	7.608	-12.843
Hour6	90.848	123.056	89.914	25.789	22.059	0.000	1.743	-15.508
Hour7	91.118	127.639	97.523	21.376	25.244	0.000	1.711	-8.935
Hour8	68.038	103.136	79.705	5.545	24.446	0.000	4.847	-2.449
Hour9	79.635	112.523	81.477	5.151	23.287	0.000	-0.049	1.258
Hour10	93.907	125.609	87.754	11.603	27.844	0.000	-2.725	0.761
Hour11	66.258	103.296	72.758	7.144	24.601	0.000	2.208	0.267
Hour12	90.463	119.819	84.007	19.544	23.599	0.000	-2.109	-6.989
Hour13	72.564	104.231	72.531	14.347	20.113	0.000	0.217	-1.340
Hour14	72.442	103.741	74.441	21.120	31.900	0.000	3.955	-2.778
Hour15	81.577	113.980	79.714	24.409	33.288	0.000	0.947	-3.144
Hour16	98.706	120.030	80.151	23.610	33.314	0.000	-2.603	1.333
Hour17	83.007	103.352	66.233	14.162	30.605	0.000	-0.788	6.458
Hour18	68.528	84.676	56.958	5.189	25.455	0.000	-0.192	3.112
Hour19	97.210	106.954	77.146	10.975	23.335	0.000	-5.247	0.035
Hour20	114.545	119.452	91.978	25.371	22.159	0.000	-7.585	-5.056
Hour21	105.548	122.488	91.094	22.774	23.811	0.000	-5.816	-4.415
Hour22	105.886	125.435	91.326	25.994	27.002	0.000	-4.219	-6.547
Hour23	108.818	125.424	92.611	24.018	16.408	0.000	-3.102	-7.995
Hour24	116.226	139.808	99.084	26.792	23.964	0.000	-5.381	-5.588

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Standard Errors

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	63.731	1.853	2.604	1.134	2.156	3.171	3.123	0.284	5.129
Hour2	62.366	1.814	2.548	1.109	2.110	3.103	3.056	0.278	5.019
Hour3	63.162	1.837	2.581	1.124	2.137	3.142	3.095	0.281	5.083
Hour4	63.287	1.841	2.586	1.126	2.141	3.149	3.101	0.282	5.093
Hour5	64.999	1.890	2.656	1.156	2.199	3.234	3.185	0.290	5.231
Hour6	67.588	1.966	2.761	1.202	2.287	3.363	3.312	0.301	5.439
Hour7	72.676	2.114	2.969	1.293	2.459	3.616	3.561	0.324	5.849
Hour8	78.034	2.269	3.188	1.388	2.640	3.882	3.823	0.348	6.280
Hour9	80.753	2.348	3.299	1.436	2.732	4.018	3.957	0.360	6.499
Hour10	78.257	2.276	3.197	1.392	2.648	3.893	3.834	0.349	6.298
Hour11	79.215	2.304	3.236	1.409	2.680	3.941	3.881	0.353	6.375
Hour12	77.805	2.263	3.179	1.384	2.633	3.871	3.812	0.347	6.262
Hour13	79.450	2.311	3.246	1.413	2.688	3.953	3.893	0.354	6.394
Hour14	77.438	2.252	3.164	1.378	2.620	3.853	3.794	0.345	6.232
Hour15	77.536	2.255	3.168	1.379	2.623	3.858	3.799	0.345	6.240
Hour16	74.909	2.179	3.060	1.333	2.535	3.727	3.670	0.334	6.029
Hour17	71.892	2.091	2.937	1.279	2.432	3.577	3.522	0.320	5.786
Hour18	68.641	1.996	2.804	1.221	2.322	3.415	3.363	0.306	5.524
Hour19	66.913	1.946	2.734	1.190	2.264	3.329	3.278	0.298	5.385
Hour20	65.793	1.913	2.688	1.170	2.226	3.273	3.224	0.293	5.295
Hour21	66.553	1.936	2.719	1.184	2.252	3.311	3.261	0.296	5.356
Hour22	64.385	1.872	2.630	1.145	2.178	3.203	3.155	0.287	5.182
Hour23	63.117	1.836	2.579	1.123	2.136	3.140	3.092	0.281	5.080
Hour24	64.359	1.872	2.629	1.145	2.178	3.202	3.153	0.287	5.180

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	9.002	14.563	6.372	5.185	8.558	11.950	17.530	24.514	30.251	33.424
Hour2	8.809	14.251	6.236	5.074	8.375	11.694	17.154	23.989	29.603	32.708
Hour3	8.922	14.433	6.315	5.139	8.482	11.843	17.373	24.295	29.981	33.125
Hour4	8.940	14.461	6.328	5.149	8.499	11.867	17.408	24.344	30.040	33.191
Hour5	9.181	14.852	6.499	5.288	8.729	12.188	17.879	25.002	30.853	34.089
Hour6	9.547	15.444	6.758	5.499	9.076	12.673	18.591	25.998	32.081	35.446
Hour7	10.266	16.607	7.267	5.913	9.760	13.627	19.991	27.955	34.497	38.115
Hour8	11.023	17.831	7.802	6.349	10.479	14.632	21.464	30.016	37.040	40.925
Hour9	11.407	18.452	8.074	6.570	10.844	15.142	22.212	31.062	38.330	42.351
Hour10	11.054	17.882	7.825	6.367	10.509	14.674	21.526	30.102	37.146	41.042
Hour11	11.189	18.101	7.920	6.445	10.638	14.853	21.789	30.470	37.600	41.544
Hour12	10.990	17.778	7.779	6.330	10.448	14.589	21.401	29.928	36.931	40.805
Hour13	11.223	18.154	7.944	6.464	10.669	14.897	21.854	30.561	37.712	41.668
Hour14	10.938	17.695	7.743	6.300	10.399	14.520	21.300	29.787	36.757	40.612
Hour15	10.952	17.717	7.753	6.308	10.412	14.538	21.327	29.825	36.804	40.664
Hour16	10.581	17.117	7.490	6.095	10.060	14.046	20.605	28.814	35.556	39.286
Hour17	10.155	16.427	7.188	5.849	9.654	13.480	19.775	27.653	34.124	37.704
Hour18	9.696	15.684	6.863	5.585	9.218	12.870	18.880	26.403	32.581	35.999
Hour19	9.452	15.290	6.690	5.444	8.986	12.546	18.405	25.738	31.761	35.092
Hour20	9.294	15.034	6.578	5.353	8.835	12.337	18.097	25.308	31.230	34.505
Hour21	9.401	15.207	6.654	5.415	8.937	12.479	18.306	25.600	31.590	34.904
Hour22	9.095	14.712	6.438	5.238	8.646	12.072	17.710	24.766	30.561	33.767
Hour23	8.916	14.422	6.311	5.135	8.476	11.835	17.361	24.278	29.959	33.102
Hour24	9.091	14.706	6.435	5.236	8.643	12.068	17.703	24.756	30.549	33.753

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Standard Errors

Variable	July	August	September	October	November	December	HLight	DST
Hour1	31.781	26.463	20.244	15.168	9.350	0.000	6.428	11.042
Hour2	31.100	25.896	19.810	14.843	9.150	0.000	6.290	10.805
Hour3	31.497	26.226	20.063	15.032	9.267	0.000	6.370	10.943
Hour4	31.560	26.278	20.103	15.062	9.285	0.000	6.383	10.965
Hour5	32.413	26.989	20.647	15.469	9.536	0.000	6.556	11.262
Hour6	33.704	28.064	21.469	16.086	9.916	0.000	6.817	11.710
Hour7	36.242	30.177	23.086	17.297	10.663	0.000	7.330	12.592
Hour8	38.914	32.402	24.788	18.572	11.449	0.000	7.870	13.520
Hour9	40.269	33.530	25.651	19.219	11.848	0.000	8.145	13.991
Hour10	39.025	32.494	24.858	18.625	11.481	0.000	7.893	13.559
Hour11	39.502	32.892	25.162	18.853	11.622	0.000	7.989	13.724
Hour12	38.799	32.306	24.715	18.517	11.415	0.000	7.847	13.480
Hour13	39.620	32.990	25.237	18.909	11.657	0.000	8.013	13.765
Hour14	38.616	32.154	24.598	18.430	11.361	0.000	7.810	13.417
Hour15	38.665	32.195	24.629	18.453	11.376	0.000	7.820	13.434
Hour16	37.355	31.104	23.795	17.828	10.990	0.000	7.555	12.978
Hour17	35.850	29.851	22.836	17.110	10.548	0.000	7.251	12.456
Hour18	34.229	28.501	21.804	16.336	10.071	0.000	6.923	11.892
Hour19	33.367	27.784	21.255	15.925	9.817	0.000	6.749	11.593
Hour20	32.809	27.319	20.899	15.658	9.653	0.000	6.636	11.399
Hour21	33.188	27.634	21.140	15.839	9.764	0.000	6.712	11.531
Hour22	32.107	26.734	20.452	15.323	9.446	0.000	6.494	11.155
Hour23	31.475	26.208	20.049	15.022	9.260	0.000	6.366	10.935
Hour24	32.094	26.723	20.444	15.317	9.442	0.000	6.491	11.151

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model t-Statistics

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	11.024	-0.179	0.017	0.137	-1.529	1.805	0.859	1.733	-1.236
Hour2	10.817	-0.037	-0.269	0.500	-0.649	1.027	0.404	1.643	-0.869
Hour3	11.153	0.296	-0.329	0.155	-1.378	1.976	0.843	1.196	-1.356
Hour4	10.248	-0.216	-0.049	0.241	-1.106	1.659	0.766	1.705	-1.224
Hour5	9.914	0.333	-0.362	0.192	-0.963	1.560	0.307	1.353	-0.964
Hour6	10.698	-0.143	0.112	-0.244	-0.851	1.115	0.117	2.201	-0.618
Hour7	10.421	0.916	-1.079	0.583	-0.600	1.153	0.324	3.244	-1.034
Hour8	9.820	0.795	-1.000	0.381	-1.325	1.669	0.582	4.346	-0.941
Hour9	10.360	0.371	-0.563	-0.208	-1.184	1.564	0.290	4.744	-0.488
Hour10	10.809	-0.161	-0.271	-0.061	-0.755	1.321	0.771	4.865	-0.991
Hour11	10.087	0.510	-0.736	0.065	-0.808	1.453	1.073	4.523	-1.370
Hour12	10.830	0.105	-0.196	-0.535	-0.962	1.523	0.839	4.335	-1.016
Hour13	10.403	0.364	-0.035	-1.146	-1.498	1.923	0.587	3.996	-0.799
Hour14	9.965	0.231	0.001	-0.835	-1.251	1.689	0.268	4.113	-0.469
Hour15	10.128	0.589	-0.391	-0.524	-0.756	1.402	0.538	3.849	-0.800
Hour16	10.628	1.541	-1.378	0.324	-0.703	1.019	0.618	3.423	-0.813
Hour17	10.553	1.561	-1.397	0.303	-0.937	1.140	0.741	3.352	-0.853
Hour18	10.893	1.053	-0.795	-0.334	-0.562	0.873	0.554	3.386	-0.584
Hour19	11.802	0.788	-0.839	0.126	-0.372	1.156	1.007	3.408	-1.437
Hour20	12.170	-0.209	-0.016	-0.258	-0.375	1.081	0.842	3.169	-1.421
Hour21	11.747	0.111	-0.240	-0.143	-0.386	0.808	0.298	2.735	-0.507
Hour22	11.381	0.362	-0.588	0.390	-0.084	0.821	0.886	2.489	-1.119
Hour23	11.164	0.307	-1.023	1.472	-0.211	0.825	1.191	2.011	-1.314
Hour24	10.987	0.241	-0.613	0.780	0.032	0.322	-0.021	0.796	-0.215

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June	July
Hour1	-10.169	-4.760	-6.757	-0.037	4.576	4.589	2.913	2.839	2.874	3.295	2.993
Hour2	-9.528	-5.219	-5.219	-0.081	4.140	4.228	2.534	2.542	2.463	2.806	2.393
Hour3	-8.367	-6.032	-3.652	1.019	4.674	4.334	2.794	2.714	2.706	2.981	2.627
Hour4	-8.992	-6.176	-3.173	0.049	4.174	3.788	1.894	1.898	1.945	2.195	1.814
Hour5	-9.199	-6.083	-2.019	1.044	3.423	3.380	1.513	1.654	1.651	1.853	1.421
Hour6	-12.257	-6.045	-2.040	0.514	4.399	4.268	2.525	2.750	2.920	3.065	2.695
Hour7	-14.927	-6.662	0.404	1.333	4.000	4.015	2.270	2.682	2.637	2.974	2.514
Hour8	-17.556	-6.778	2.209	1.012	3.028	2.613	1.441	1.961	1.791	2.079	1.748
Hour9	-18.235	-6.400	2.437	0.812	3.256	2.977	1.738	2.248	2.106	2.439	1.978
Hour10	-18.942	-6.887	2.270	1.018	3.197	3.302	2.095	2.714	2.707	2.950	2.406
Hour11	-18.449	-7.119	3.065	1.397	3.491	3.287	1.780	2.117	1.938	2.122	1.677
Hour12	-18.220	-6.614	2.628	0.977	3.170	3.132	2.260	2.721	2.629	2.757	2.332
Hour13	-17.808	-6.065	3.044	1.372	3.280	2.880	1.788	2.315	1.978	2.237	1.832
Hour14	-18.326	-6.441	3.904	2.092	3.526	2.755	1.673	2.289	2.088	2.281	1.876
Hour15	-16.816	-6.023	3.819	2.049	3.579	3.252	2.202	2.655	2.407	2.563	2.110
Hour16	-15.190	-6.119	3.869	1.718	3.798	3.565	2.104	2.752	2.771	3.104	2.642
Hour17	-13.840	-6.056	3.599	0.876	3.790	3.315	1.926	2.306	2.345	2.612	2.315
Hour18	-13.365	-5.757	2.721	-0.852	3.721	3.329	1.846	2.147	2.121	2.352	2.002
Hour19	-13.191	-5.800	2.172	-0.674	3.903	3.721	2.218	2.632	3.002	3.161	2.913
Hour20	-11.614	-6.484	3.229	1.062	4.175	4.524	2.937	3.058	3.446	3.758	3.491
Hour21	-11.085	-6.036	3.249	1.667	4.543	4.371	2.851	2.986	3.148	3.375	3.180
Hour22	-9.666	-6.308	5.553	4.495	5.446	5.143	3.289	3.460	3.350	3.466	3.298
Hour23	-7.535	-6.822	7.564	6.937	5.593	5.002	3.191	3.219	3.315	3.742	3.457
Hour24	-3.233	-7.660	9.812	10.182	6.382	5.854	3.750	3.510	3.648	3.863	3.621

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model t-Statistics

Variable	August	September	October	November	December	HLight	DST
Hour1	4.589	4.498	1.557	1.383	0.000	0.203	-1.537
Hour2	4.082	3.804	1.029	1.552	0.000	0.529	-1.706
Hour3	4.204	3.733	0.815	1.622	0.000	0.023	-1.099
Hour4	3.588	2.935	0.420	1.556	0.000	0.948	-1.143
Hour5	3.077	2.639	0.202	1.291	0.000	1.161	-1.140
Hour6	4.385	4.188	1.603	2.225	0.000	0.256	-1.324
Hour7	4.230	4.224	1.236	2.368	0.000	0.233	-0.710
Hour8	3.183	3.216	0.299	2.135	0.000	0.616	-0.181
Hour9	3.356	3.176	0.268	1.966	0.000	-0.006	0.090
Hour10	3.866	3.530	0.623	2.425	0.000	-0.345	0.056
Hour11	3.140	2.892	0.379	2.117	0.000	0.276	0.019
Hour12	3.709	3.399	1.055	2.067	0.000	-0.269	-0.518
Hour13	3.160	2.874	0.759	1.725	0.000	0.027	-0.097
Hour14	3.226	3.026	1.146	2.808	0.000	0.506	-0.207
Hour15	3.540	3.237	1.323	2.926	0.000	0.121	-0.234
Hour16	3.859	3.368	1.324	3.031	0.000	-0.345	0.103
Hour17	3.462	2.900	0.828	2.902	0.000	-0.109	0.518
Hour18	2.971	2.612	0.318	2.528	0.000	-0.028	0.262
Hour19	3.850	3.630	0.689	2.377	0.000	-0.777	0.003
Hour20	4.372	4.401	1.620	2.296	0.000	-1.143	-0.444
Hour21	4.432	4.309	1.438	2.439	0.000	-0.867	-0.383
Hour22	4.692	4.465	1.696	2.858	0.000	-0.650	-0.587
Hour23	4.786	4.619	1.599	1.772	0.000	-0.487	-0.731
Hour24	5.232	4.847	1.749	2.538	0.000	-0.829	-0.501

Indiana Michigan Power Company - Indiana
Industrial Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1551	1524	0.366	0.818	67.008	52.418	7.56%	0	0.000	0.00%	0.000
Hour2	1551	1524	0.346	0.822	65.573	50.574	7.37%	0	0.000	0.00%	0.000
Hour3	1551	1524	0.335	0.746	66.410	51.730	7.53%	0	0.000	0.00%	0.000
Hour4	1551	1524	0.340	0.715	66.542	51.409	7.48%	0	0.000	0.00%	0.000
Hour5	1551	1524	0.366	0.719	68.342	53.197	7.65%	0	0.000	0.00%	0.000
Hour6	1551	1524	0.438	0.749	71.063	55.518	7.79%	0	0.000	0.00%	0.000
Hour7	1551	1524	0.526	0.847	76.414	60.388	8.12%	0	0.000	0.00%	0.000
Hour8	1551	1524	0.567	1.012	82.047	65.267	8.52%	0	0.000	0.00%	0.000
Hour9	1551	1524	0.578	1.050	84.905	67.275	8.67%	0	0.000	0.00%	0.000
Hour10	1551	1524	0.595	1.129	82.281	65.661	8.54%	0	0.000	0.00%	0.000
Hour11	1551	1524	0.589	1.158	83.288	66.217	8.58%	0	0.000	0.00%	0.000
Hour12	1551	1524	0.579	1.166	81.806	64.667	8.43%	0	0.000	0.00%	0.000
Hour13	1551	1524	0.575	1.166	83.536	65.519	8.57%	0	0.000	0.00%	0.000
Hour14	1551	1524	0.600	1.182	81.420	64.985	8.45%	0	0.000	0.00%	0.000
Hour15	1551	1524	0.566	1.172	81.524	64.431	8.51%	0	0.000	0.00%	0.000
Hour16	1551	1524	0.524	1.159	78.761	62.712	8.46%	0	0.000	0.00%	0.000
Hour17	1551	1524	0.477	1.174	75.589	60.090	8.29%	0	0.000	0.00%	0.000
Hour18	1551	1524	0.441	1.136	72.170	57.164	8.08%	0	0.000	0.00%	0.000
Hour19	1551	1524	0.441	1.021	70.354	55.293	7.85%	0	0.000	0.00%	0.000
Hour20	1551	1524	0.418	0.893	69.177	54.395	7.74%	0	0.000	0.00%	0.000
Hour21	1551	1524	0.408	0.858	69.975	55.114	7.82%	0	0.000	0.00%	0.000
Hour22	1551	1524	0.416	0.882	67.696	52.939	7.60%	0	0.000	0.00%	0.000
Hour23	1551	1524	0.399	0.847	66.363	51.413	7.36%	0	0.000	0.00%	0.000
Hour24	1551	1524	0.360	0.828	67.668	52.848	7.58%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Coefficients

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	87.926	0.512	1.200	-1.236	1.031	-0.005	1.031	0.164	-0.713
Hour2	89.455	0.472	1.253	-1.223	1.015	-0.012	0.873	0.138	-0.544
Hour3	91.434	0.289	1.415	-1.200	1.111	-0.156	0.995	0.147	-0.736
Hour4	92.673	0.092	1.595	-1.185	1.177	-0.192	0.804	0.136	-0.520
Hour5	98.842	-0.098	1.792	-1.205	1.333	0.139	0.534	0.141	-0.583
Hour6	107.572	-0.188	2.114	-1.479	1.751	0.073	-0.152	0.194	-0.183
Hour7	115.557	-0.211	2.238	-1.608	2.104	-0.435	-0.305	0.231	0.248
Hour8	137.720	-0.337	2.356	-1.657	1.993	-0.453	0.408	0.258	-0.499
Hour9	140.263	-0.268	2.514	-1.909	1.886	-0.481	0.549	0.279	-0.313
Hour10	136.808	0.088	2.346	-2.092	1.710	-0.190	0.683	0.312	-0.370
Hour11	139.983	0.487	2.056	-2.228	1.496	0.233	0.900	0.373	-0.726
Hour12	140.422	0.920	1.506	-2.145	1.516	0.361	1.011	0.416	-0.941
Hour13	140.561	1.133	1.229	-2.124	1.495	0.452	1.197	0.462	-1.232
Hour14	137.438	1.118	1.261	-2.174	1.601	0.314	1.152	0.482	-1.194
Hour15	139.215	1.172	1.205	-2.212	1.691	0.280	0.988	0.508	-1.017
Hour16	136.003	1.084	1.204	-2.120	1.704	0.192	0.911	0.461	-0.985
Hour17	126.774	0.995	1.001	-1.759	1.619	-0.011	1.253	0.345	-1.222
Hour18	126.110	0.821	1.062	-1.601	1.500	0.038	1.318	0.299	-1.312
Hour19	124.358	0.677	1.124	-1.490	1.456	-0.010	1.336	0.255	-1.383
Hour20	118.634	0.671	1.105	-1.426	1.381	-0.055	1.388	0.242	-1.441
Hour21	112.488	0.592	1.059	-1.270	1.320	-0.184	1.351	0.226	-1.282
Hour22	103.058	0.675	0.931	-1.194	1.160	-0.125	1.443	0.215	-1.175
Hour23	95.445	0.697	1.008	-1.258	1.031	0.159	1.449	0.202	-1.279
Hour24	92.468	0.571	1.251	-1.370	1.024	0.158	1.427	0.207	-1.246

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	-7.700	-0.323	-2.954	-0.803	-2.666	-6.470	-12.253	-23.351	-23.624	-26.884
Hour2	-7.076	-1.091	-3.213	-0.793	-3.030	-6.735	-12.190	-23.519	-23.930	-27.075
Hour3	-7.790	-0.763	-3.326	-0.827	-2.843	-6.056	-11.402	-22.716	-23.071	-26.154
Hour4	-7.969	0.300	-3.120	-0.802	-3.026	-5.848	-10.931	-22.166	-22.910	-25.892
Hour5	-9.539	0.628	-1.823	-0.549	-2.379	-4.555	-9.445	-20.061	-20.896	-23.740
Hour6	-16.370	3.050	-0.673	-0.129	-1.600	-3.299	-8.539	-20.035	-21.778	-24.636
Hour7	-28.414	3.394	0.227	1.035	-0.698	-1.789	-7.095	-20.964	-23.911	-32.911
Hour8	-41.803	2.344	1.288	2.392	1.705	1.334	-4.613	-20.241	-20.005	-33.692
Hour9	-51.639	0.064	1.724	3.149	1.447	0.468	-5.269	-20.648	-18.967	-37.886
Hour10	-54.560	-1.227	1.449	3.315	0.488	-0.101	-6.616	-21.603	-19.788	-41.678
Hour11	-56.589	-2.072	1.688	3.351	0.444	-0.251	-6.941	-21.351	-19.548	-43.386
Hour12	-57.947	-2.294	1.921	3.254	0.626	-0.234	-7.088	-20.438	-18.880	-43.789
Hour13	-57.585	-2.571	2.174	3.557	0.349	-0.420	-7.532	-20.970	-19.116	-44.795
Hour14	-55.292	-2.635	2.253	3.686	-0.186	-1.248	-8.358	-21.469	-20.232	-45.193
Hour15	-52.568	-2.609	2.228	3.507	-0.227	-1.275	-8.222	-20.607	-19.163	-42.878
Hour16	-43.762	-2.958	2.691	3.762	-0.761	-1.554	-8.440	-20.933	-19.750	-39.121
Hour17	-29.875	-4.255	3.079	3.973	-2.433	-3.299	-9.690	-21.062	-20.401	-36.297
Hour18	-22.430	-4.102	2.980	3.809	-4.209	-6.565	-12.655	-22.357	-21.645	-34.653
Hour19	-16.966	-4.809	3.034	3.921	-2.011	-3.654	-10.779	-20.443	-20.166	-31.698
Hour20	-14.850	-4.428	2.895	3.426	-2.580	-3.189	-9.095	-20.602	-20.213	-30.389
Hour21	-12.787	-3.704	1.965	2.496	-2.829	-3.827	-9.017	-21.070	-22.595	-31.297
Hour22	-10.445	-3.079	1.661	2.343	-3.248	-5.353	-10.857	-20.905	-21.826	-28.718
Hour23	-7.463	-3.771	2.123	2.705	-3.417	-6.375	-12.203	-22.173	-22.429	-27.543
Hour24	-6.227	-3.542	2.027	2.462	-3.703	-6.888	-12.786	-23.235	-23.115	-27.055

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Coefficients

Variable	July	August	September	October	November	December	HLight	DST
Hour1	-24.310	-21.262	-18.446	-1.446	-3.436	0.000	1.411	1.000
Hour2	-24.502	-21.684	-19.539	-2.742	-3.491	0.000	1.171	1.053
Hour3	-23.325	-20.323	-19.312	-2.802	-3.825	0.000	0.831	1.323
Hour4	-22.527	-19.595	-19.368	-2.737	-3.610	0.000	0.668	0.894
Hour5	-19.574	-16.085	-16.994	-1.727	-3.657	0.000	0.162	0.533
Hour6	-21.094	-15.875	-16.186	-1.743	-3.377	0.000	0.204	0.171
Hour7	-29.881	-19.989	-17.308	-0.498	-1.639	0.000	0.712	-0.170
Hour8	-34.468	-21.879	-16.990	1.354	-0.150	0.000	-0.303	1.679
Hour9	-39.520	-23.453	-17.265	2.768	1.054	0.000	0.545	-0.559
Hour10	-43.038	-24.660	-16.865	3.888	2.263	0.000	1.386	-1.321
Hour11	-44.432	-24.609	-15.153	5.128	3.408	0.000	1.479	-1.430
Hour12	-44.704	-23.897	-13.396	6.799	4.217	0.000	1.612	-1.804
Hour13	-45.357	-23.969	-12.821	7.748	4.805	0.000	1.601	-1.422
Hour14	-45.234	-24.268	-13.352	8.668	4.700	0.000	1.750	-1.118
Hour15	-42.220	-22.605	-12.854	8.941	4.680	0.000	1.343	-0.799
Hour16	-38.686	-21.872	-13.895	8.142	3.681	0.000	0.821	0.242
Hour17	-35.488	-21.925	-15.530	5.850	1.255	0.000	0.303	1.139
Hour18	-33.761	-23.485	-18.182	1.349	-0.848	0.000	-0.154	0.092
Hour19	-30.062	-21.982	-17.867	2.394	-0.840	0.000	-0.500	-1.817
Hour20	-28.734	-22.531	-16.963	5.562	-1.111	0.000	-0.263	-2.033
Hour21	-29.378	-22.741	-17.428	1.551	-1.882	0.000	-0.110	1.429
Hour22	-26.707	-21.305	-18.464	0.427	-2.383	0.000	0.503	1.798
Hour23	-25.631	-22.337	-18.864	-1.360	-3.186	0.000	0.935	1.995
Hour24	-25.022	-22.464	-19.423	-2.263	-3.783	0.000	1.058	1.648

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Standard Errors

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	19.551	0.569	0.799	0.348	0.662	0.973	0.958	0.087	1.573
Hour2	19.820	0.576	0.810	0.353	0.671	0.986	0.971	0.088	1.595
Hour3	19.711	0.573	0.805	0.351	0.667	0.981	0.966	0.088	1.586
Hour4	19.626	0.571	0.802	0.349	0.664	0.976	0.962	0.087	1.579
Hour5	19.932	0.580	0.814	0.355	0.674	0.992	0.977	0.089	1.604
Hour6	20.375	0.593	0.832	0.362	0.689	1.014	0.998	0.091	1.640
Hour7	21.751	0.633	0.889	0.387	0.736	1.082	1.066	0.097	1.751
Hour8	22.883	0.665	0.935	0.407	0.774	1.138	1.121	0.102	1.842
Hour9	24.189	0.703	0.988	0.430	0.818	1.203	1.185	0.108	1.947
Hour10	24.577	0.715	1.004	0.437	0.832	1.223	1.204	0.109	1.978
Hour11	24.588	0.715	1.005	0.437	0.832	1.223	1.205	0.110	1.979
Hour12	24.522	0.713	1.002	0.436	0.830	1.220	1.201	0.109	1.974
Hour13	24.543	0.714	1.003	0.437	0.830	1.221	1.203	0.109	1.975
Hour14	24.657	0.717	1.007	0.439	0.834	1.227	1.208	0.110	1.984
Hour15	24.443	0.711	0.999	0.435	0.827	1.216	1.198	0.109	1.967
Hour16	23.619	0.687	0.965	0.420	0.799	1.175	1.157	0.105	1.901
Hour17	22.960	0.668	0.938	0.408	0.777	1.142	1.125	0.102	1.848
Hour18	22.250	0.647	0.909	0.396	0.753	1.107	1.090	0.099	1.791
Hour19	22.408	0.652	0.915	0.399	0.758	1.115	1.098	0.100	1.803
Hour20	22.309	0.649	0.911	0.397	0.755	1.110	1.093	0.099	1.795
Hour21	21.820	0.635	0.891	0.388	0.738	1.086	1.069	0.097	1.756
Hour22	21.023	0.611	0.859	0.374	0.711	1.046	1.030	0.094	1.692
Hour23	20.144	0.586	0.823	0.358	0.682	1.002	0.987	0.090	1.621
Hour24	19.791	0.576	0.809	0.352	0.670	0.985	0.970	0.088	1.593

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June	July
Hour1	2.762	4.467	1.955	1.591	2.626	3.666	5.378	7.520	9.280	10.254	9.750
Hour2	2.800	4.529	1.982	1.613	2.662	3.716	5.452	7.624	9.408	10.395	9.884
Hour3	2.784	4.504	1.971	1.604	2.647	3.696	5.422	7.582	9.356	10.337	9.829
Hour4	2.772	4.484	1.962	1.597	2.636	3.680	5.398	7.549	9.316	10.293	9.787
Hour5	2.816	4.555	1.993	1.622	2.677	3.737	5.483	7.667	9.461	10.454	9.940
Hour6	2.878	4.656	2.037	1.658	2.736	3.820	5.604	7.837	9.671	10.686	10.160
Hour7	3.072	4.970	2.175	1.770	2.921	4.078	5.983	8.367	10.325	11.408	10.847
Hour8	3.232	5.229	2.288	1.862	3.073	4.291	6.294	8.802	10.862	12.001	11.411
Hour9	3.417	5.527	2.419	1.968	3.248	4.536	6.653	9.304	11.482	12.686	12.062
Hour10	3.472	5.616	2.457	2.000	3.300	4.608	6.760	9.454	11.666	12.889	12.256
Hour11	3.473	5.618	2.458	2.001	3.302	4.610	6.763	9.458	11.671	12.895	12.261
Hour12	3.464	5.603	2.452	1.995	3.293	4.598	6.745	9.432	11.640	12.860	12.228
Hour13	3.467	5.608	2.454	1.997	3.296	4.602	6.751	9.441	11.650	12.872	12.239
Hour14	3.483	5.634	2.465	2.006	3.311	4.623	6.782	9.484	11.704	12.931	12.296
Hour15	3.453	5.585	2.444	1.989	3.283	4.583	6.723	9.402	11.602	12.819	12.189
Hour16	3.336	5.397	2.362	1.922	3.172	4.429	6.497	9.085	11.211	12.387	11.778
Hour17	3.243	5.247	2.296	1.868	3.083	4.305	6.316	8.832	10.898	12.042	11.450
Hour18	3.143	5.084	2.225	1.810	2.988	4.172	6.120	8.558	10.561	11.669	11.095
Hour19	3.165	5.120	2.240	1.823	3.009	4.202	6.164	8.619	10.636	11.752	11.174
Hour20	3.151	5.098	2.231	1.815	2.996	4.183	6.136	8.581	10.589	11.700	11.125
Hour21	3.082	4.986	2.182	1.775	2.930	4.091	6.002	8.393	10.357	11.444	10.881
Hour22	2.970	4.804	2.102	1.710	2.823	3.942	5.783	8.087	9.979	11.026	10.484
Hour23	2.845	4.603	2.014	1.639	2.705	3.777	5.541	7.748	9.561	10.564	10.045
Hour24	2.796	4.522	1.979	1.610	2.658	3.711	5.444	7.613	9.394	10.379	9.869

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Standard Errors

Variable	August	September	October	November	December	HLight	DST
Hour1	8.118	6.210	4.653	2.868	0.000	1.972	3.387
Hour2	8.230	6.296	4.717	2.908	0.000	1.999	3.434
Hour3	8.184	6.261	4.691	2.892	0.000	1.988	3.415
Hour4	8.149	6.234	4.671	2.879	0.000	1.979	3.400
Hour5	8.276	6.332	4.744	2.924	0.000	2.010	3.453
Hour6	8.460	6.472	4.849	2.989	0.000	2.055	3.530
Hour7	9.032	6.909	5.177	3.191	0.000	2.194	3.769
Hour8	9.502	7.269	5.446	3.357	0.000	2.308	3.965
Hour9	10.044	7.684	5.757	3.549	0.000	2.440	4.191
Hour10	10.205	7.807	5.849	3.606	0.000	2.479	4.258
Hour11	10.210	7.810	5.852	3.607	0.000	2.480	4.260
Hour12	10.182	7.789	5.836	3.598	0.000	2.473	4.249
Hour13	10.191	7.796	5.841	3.601	0.000	2.475	4.252
Hour14	10.238	7.832	5.868	3.617	0.000	2.487	4.272
Hour15	10.149	7.764	5.817	3.586	0.000	2.465	4.235
Hour16	9.807	7.502	5.621	3.465	0.000	2.382	4.092
Hour17	9.534	7.293	5.464	3.369	0.000	2.316	3.978
Hour18	9.239	7.068	5.295	3.264	0.000	2.244	3.855
Hour19	9.304	7.118	5.333	3.288	0.000	2.260	3.882
Hour20	9.263	7.086	5.309	3.273	0.000	2.250	3.865
Hour21	9.060	6.931	5.193	3.201	0.000	2.201	3.781
Hour22	8.729	6.678	5.003	3.084	0.000	2.120	3.642
Hour23	8.364	6.399	4.794	2.955	0.000	2.032	3.490
Hour24	8.218	6.287	4.710	2.904	0.000	1.996	3.429

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model t-Statistics

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	4.497	0.901	1.502	-3.555	1.558	-0.005	1.076	1.887	-0.453
Hour2	4.513	0.818	1.548	-3.468	1.513	-0.013	0.899	1.558	-0.341
Hour3	4.639	0.504	1.758	-3.422	1.666	-0.159	1.030	1.675	-0.464
Hour4	4.722	0.161	1.990	-3.394	1.772	-0.197	0.836	1.550	-0.329
Hour5	4.959	-0.169	2.200	-3.398	1.976	0.140	0.546	1.593	-0.363
Hour6	5.280	-0.317	2.539	-4.082	2.540	0.072	-0.152	2.137	-0.112
Hour7	5.313	-0.334	2.518	-4.157	2.859	-0.402	-0.286	2.383	0.142
Hour8	6.018	-0.506	2.520	-4.071	2.575	-0.398	0.364	2.534	-0.271
Hour9	5.799	-0.381	2.544	-4.436	2.304	-0.400	0.463	2.588	-0.161
Hour10	5.567	0.124	2.336	-4.784	2.056	-0.155	0.567	2.850	-0.187
Hour11	5.693	0.681	2.047	-5.094	1.799	0.190	0.747	3.401	-0.367
Hour12	5.726	1.290	1.504	-4.918	1.827	0.296	0.841	3.807	-0.477
Hour13	5.727	1.587	1.226	-4.865	1.800	0.370	0.995	4.229	-0.624
Hour14	5.574	1.559	1.252	-4.956	1.919	0.256	0.953	4.384	-0.602
Hour15	5.695	1.648	1.207	-5.088	2.044	0.230	0.825	4.662	-0.517
Hour16	5.758	1.578	1.248	-5.045	2.132	0.163	0.787	4.381	-0.518
Hour17	5.521	1.490	1.067	-4.306	2.085	-0.009	1.114	3.373	-0.661
Hour18	5.668	1.269	1.168	-4.044	1.992	0.035	1.209	3.015	-0.733
Hour19	5.550	1.039	1.228	-3.739	1.921	-0.009	1.217	2.550	-0.767
Hour20	5.318	1.034	1.212	-3.592	1.829	-0.050	1.270	2.435	-0.802
Hour21	5.155	0.933	1.188	-3.271	1.788	-0.169	1.264	2.327	-0.730
Hour22	4.902	1.104	1.084	-3.192	1.631	-0.120	1.400	2.293	-0.694
Hour23	4.738	1.190	1.225	-3.510	1.512	0.158	1.468	2.251	-0.789
Hour24	4.672	0.992	1.548	-3.891	1.530	0.161	1.472	2.351	-0.782

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	-2.788	-0.072	-1.511	-0.505	-1.016	-1.765	-2.278	-3.105	-2.546	-2.622
Hour2	-2.527	-0.241	-1.621	-0.492	-1.138	-1.812	-2.236	-3.085	-2.544	-2.605
Hour3	-2.798	-0.169	-1.688	-0.515	-1.074	-1.639	-2.103	-2.996	-2.466	-2.530
Hour4	-2.875	0.067	-1.590	-0.502	-1.148	-1.589	-2.025	-2.936	-2.459	-2.516
Hour5	-3.388	0.138	-0.915	-0.339	-0.889	-1.219	-1.723	-2.617	-2.209	-2.271
Hour6	-5.688	0.655	-0.330	-0.078	-0.585	-0.863	-1.524	-2.556	-2.252	-2.306
Hour7	-9.248	0.683	0.104	0.585	-0.239	-0.439	-1.186	-2.506	-2.316	-2.885
Hour8	-12.933	0.448	0.563	1.285	0.555	0.311	-0.733	-2.300	-1.842	-2.807
Hour9	-15.113	0.012	0.713	1.600	0.445	0.103	-0.792	-2.219	-1.652	-2.986
Hour10	-15.716	-0.218	0.590	1.658	0.148	-0.022	-0.979	-2.285	-1.696	-3.234
Hour11	-16.293	-0.369	0.687	1.675	0.134	-0.055	-1.026	-2.257	-1.675	-3.365
Hour12	-16.729	-0.409	0.784	1.631	0.190	-0.051	-1.051	-2.167	-1.622	-3.405
Hour13	-16.610	-0.458	0.886	1.781	0.106	-0.091	-1.116	-2.221	-1.641	-3.480
Hour14	-15.876	-0.468	0.914	1.838	-0.056	-0.270	-1.232	-2.264	-1.729	-3.495
Hour15	-15.225	-0.467	0.912	1.763	-0.069	-0.278	-1.223	-2.192	-1.652	-3.345
Hour16	-13.117	-0.548	1.140	1.957	-0.240	-0.351	-1.299	-2.304	-1.762	-3.158
Hour17	-9.211	-0.811	1.341	2.127	-0.789	-0.766	-1.534	-2.385	-1.872	-3.014
Hour18	-7.137	-0.807	1.339	2.104	-1.409	-1.574	-2.068	-2.612	-2.049	-2.970
Hour19	-5.360	-0.939	1.354	2.151	-0.668	-0.870	-1.749	-2.372	-1.896	-2.697
Hour20	-4.712	-0.869	1.298	1.887	-0.861	-0.762	-1.482	-2.401	-1.909	-2.597
Hour21	-4.149	-0.743	0.901	1.406	-0.965	-0.935	-1.502	-2.510	-2.182	-2.735
Hour22	-3.517	-0.641	0.790	1.370	-1.150	-1.358	-1.878	-2.585	-2.187	-2.605
Hour23	-2.623	-0.819	1.054	1.651	-1.263	-1.688	-2.202	-2.862	-2.346	-2.607
Hour24	-2.227	-0.783	1.024	1.529	-1.393	-1.856	-2.349	-3.052	-2.461	-2.607

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model t-Statistics

Variable	July	August	September	October	November	December	HLight	DST
Hour1	-2.493	-2.619	-2.970	-0.311	-1.198	0.000	0.716	0.295
Hour2	-2.479	-2.635	-3.103	-0.581	-1.201	0.000	0.586	0.307
Hour3	-2.373	-2.483	-3.085	-0.597	-1.323	0.000	0.418	0.387
Hour4	-2.302	-2.405	-3.107	-0.586	-1.254	0.000	0.338	0.263
Hour5	-1.969	-1.943	-2.684	-0.364	-1.250	0.000	0.081	0.154
Hour6	-2.076	-1.876	-2.501	-0.359	-1.130	0.000	0.099	0.049
Hour7	-2.755	-2.213	-2.505	-0.096	-0.514	0.000	0.325	-0.045
Hour8	-3.021	-2.303	-2.337	0.249	-0.045	0.000	-0.131	0.424
Hour9	-3.276	-2.335	-2.247	0.481	0.297	0.000	0.223	-0.133
Hour10	-3.512	-2.416	-2.160	0.665	0.628	0.000	0.559	-0.310
Hour11	-3.624	-2.410	-1.940	0.876	0.945	0.000	0.596	-0.336
Hour12	-3.656	-2.347	-1.720	1.165	1.172	0.000	0.652	-0.425
Hour13	-3.706	-2.352	-1.645	1.326	1.334	0.000	0.647	-0.334
Hour14	-3.679	-2.370	-1.705	1.477	1.299	0.000	0.704	-0.262
Hour15	-3.464	-2.227	-1.655	1.537	1.305	0.000	0.545	-0.189
Hour16	-3.285	-2.230	-1.852	1.449	1.062	0.000	0.344	0.059
Hour17	-3.099	-2.300	-2.129	1.071	0.373	0.000	0.131	0.286
Hour18	-3.043	-2.542	-2.573	0.255	-0.260	0.000	-0.069	0.024
Hour19	-2.690	-2.363	-2.510	0.449	-0.256	0.000	-0.221	-0.468
Hour20	-2.583	-2.432	-2.394	1.048	-0.339	0.000	-0.117	-0.526
Hour21	-2.700	-2.510	-2.514	0.299	-0.588	0.000	-0.050	0.378
Hour22	-2.547	-2.441	-2.765	0.085	-0.773	0.000	0.237	0.494
Hour23	-2.552	-2.671	-2.948	-0.284	-1.078	0.000	0.460	0.572
Hour24	-2.535	-2.734	-3.090	-0.481	-1.303	0.000	0.530	0.481

Indiana Michigan Power Company - Indiana
Other Retail Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1551	1524	0.153	0.097	20.557	14.049	14.49%	0	0.000	0.00%	0.000
Hour2	1551	1524	0.157	0.104	20.840	14.125	14.71%	0	0.000	0.00%	0.000
Hour3	1551	1524	0.168	0.096	20.724	14.094	14.80%	0	0.000	0.00%	0.000
Hour4	1551	1524	0.180	0.095	20.635	14.043	14.72%	0	0.000	0.00%	0.000
Hour5	1551	1524	0.197	0.103	20.957	14.280	14.69%	0	0.000	0.00%	0.000
Hour6	1551	1524	0.245	0.117	21.423	14.673	14.25%	0	0.000	0.00%	0.000
Hour7	1551	1524	0.327	0.127	22.870	15.531	13.92%	0	0.000	0.00%	0.000
Hour8	1551	1524	0.434	0.167	24.060	16.186	13.70%	0	0.000	0.00%	0.000
Hour9	1551	1524	0.486	0.211	25.433	17.013	14.00%	0	0.000	0.00%	0.000
Hour10	1551	1524	0.495	0.217	25.841	17.291	14.03%	0	0.000	0.00%	0.000
Hour11	1551	1524	0.505	0.227	25.852	17.346	13.94%	0	0.000	0.00%	0.000
Hour12	1551	1524	0.512	0.235	25.783	17.318	13.86%	0	0.000	0.00%	0.000
Hour13	1551	1524	0.507	0.231	25.805	17.351	13.87%	0	0.000	0.00%	0.000
Hour14	1551	1524	0.486	0.214	25.925	17.416	13.98%	0	0.000	0.00%	0.000
Hour15	1551	1524	0.468	0.197	25.700	17.262	13.99%	0	0.000	0.00%	0.000
Hour16	1551	1524	0.415	0.171	24.833	16.654	13.92%	0	0.000	0.00%	0.000
Hour17	1551	1524	0.298	0.134	24.141	16.309	14.41%	0	0.000	0.00%	0.000
Hour18	1551	1524	0.244	0.116	23.394	15.877	14.47%	0	0.000	0.00%	0.000
Hour19	1551	1524	0.217	0.102	23.560	15.953	14.74%	0	0.000	0.00%	0.000
Hour20	1551	1524	0.204	0.094	23.456	15.921	14.85%	0	0.000	0.00%	0.000
Hour21	1551	1524	0.174	0.086	22.942	15.653	14.88%	0	0.000	0.00%	0.000
Hour22	1551	1524	0.146	0.085	22.104	15.152	14.63%	0	0.000	0.00%	0.000
Hour23	1551	1524	0.146	0.089	21.179	14.354	14.17%	0	0.000	0.00%	0.000
Hour24	1551	1524	0.155	0.093	20.809	14.074	14.22%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Residential Cooling Peak Demand Model Coefficients

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	1.550	0.116	-0.394	0.319	12.177	-2.954	0.306	-0.914
Hour2	1.182	0.215	-0.054	0.060	11.197	-2.385	0.251	-0.907
Hour3	1.034	0.265	-0.164	0.146	9.624	-1.796	0.192	-0.803
Hour4	0.904	0.282	-0.158	0.126	8.481	-1.503	0.162	-0.733
Hour5	0.788	0.291	-0.125	0.102	7.641	-1.288	0.142	-0.716
Hour6	0.696	0.291	-0.157	0.123	6.716	-1.018	0.113	-0.604
Hour7	0.582	0.295	-0.096	0.079	5.869	-0.844	0.096	-0.553
Hour8	0.579	0.231	-0.110	0.097	5.657	-0.850	0.093	-0.468
Hour9	0.723	0.026	-0.313	0.242	5.345	-1.423	0.149	-0.497
Hour10	0.724	0.090	0.017	-0.014	5.994	-1.829	0.188	-0.525
Hour11	0.812	0.197	0.315	-0.238	8.081	-2.270	0.234	-0.641
Hour12	1.056	0.229	0.357	-0.269	10.162	-3.016	0.312	-0.876
Hour13	1.336	0.230	0.459	-0.315	12.578	-4.099	0.427	-1.202
Hour14	1.626	0.206	0.553	-0.382	15.038	-5.317	0.557	-1.647
Hour15	1.886	0.097	0.743	-0.523	16.989	-6.686	0.701	-1.995
Hour16	2.167	-0.031	0.843	-0.616	19.244	-7.719	0.804	-2.108
Hour17	2.469	-0.187	0.964	-0.742	21.789	-8.363	0.866	-1.840
Hour18	2.744	-0.358	0.850	-0.706	23.308	-8.333	0.858	-1.069
Hour19	2.941	-0.454	0.372	-0.314	22.987	-7.640	0.782	-0.325
Hour20	2.888	-0.395	-0.034	0.015	21.097	-7.378	0.754	-0.801
Hour21	2.594	-0.192	-0.126	0.124	19.035	-6.587	0.673	-1.283
Hour22	2.330	-0.058	-0.220	0.168	17.547	-5.436	0.558	-1.317
Hour23	2.074	0.036	-0.240	0.202	15.864	-4.636	0.476	-1.184
Hour24	1.781	0.112	-0.266	0.233	14.109	-3.814	0.395	-1.121

Indiana Michigan Power Company - Michigan
Residential Cooling Peak Demand Model Standard Errors

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.020	0.032	0.029	0.051	0.074	0.076	0.008	0.086
Hour2	0.017	0.028	0.025	0.045	0.064	0.066	0.007	0.075
Hour3	0.015	0.024	0.021	0.039	0.055	0.057	0.006	0.065
Hour4	0.013	0.021	0.019	0.034	0.049	0.051	0.005	0.057
Hour5	0.012	0.019	0.017	0.031	0.044	0.046	0.005	0.052
Hour6	0.010	0.017	0.015	0.027	0.039	0.040	0.004	0.045
Hour7	0.009	0.015	0.013	0.024	0.034	0.035	0.004	0.040
Hour8	0.009	0.014	0.012	0.022	0.032	0.033	0.003	0.038
Hour9	0.009	0.014	0.013	0.023	0.033	0.034	0.003	0.039
Hour10	0.010	0.017	0.015	0.027	0.038	0.039	0.004	0.044
Hour11	0.013	0.021	0.019	0.034	0.049	0.051	0.005	0.057
Hour12	0.017	0.027	0.024	0.044	0.063	0.065	0.007	0.073
Hour13	0.021	0.034	0.031	0.055	0.079	0.082	0.008	0.092
Hour14	0.026	0.042	0.037	0.067	0.096	0.099	0.010	0.112
Hour15	0.030	0.048	0.043	0.078	0.111	0.115	0.012	0.130
Hour16	0.034	0.055	0.049	0.088	0.126	0.130	0.013	0.147
Hour17	0.038	0.061	0.055	0.098	0.141	0.146	0.015	0.165
Hour18	0.040	0.065	0.058	0.105	0.151	0.156	0.016	0.176
Hour19	0.040	0.065	0.058	0.105	0.150	0.155	0.016	0.175
Hour20	0.038	0.061	0.054	0.098	0.141	0.145	0.015	0.164
Hour21	0.034	0.055	0.049	0.088	0.126	0.130	0.013	0.147
Hour22	0.030	0.049	0.043	0.078	0.112	0.116	0.012	0.131
Hour23	0.027	0.044	0.039	0.070	0.100	0.104	0.011	0.117
Hour24	0.023	0.038	0.034	0.061	0.087	0.090	0.009	0.102

Indiana Michigan Power Company - Michigan
Residential Cooling Peak Demand Model t-Statistics

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	78.539	3.612	-13.775	6.191	164.787	-38.680	39.378	-10.605
Hour2	68.850	7.731	-2.158	1.331	174.264	-35.925	37.136	-12.093
Hour3	69.966	11.044	-7.673	3.794	173.986	-31.427	32.970	-12.446
Hour4	69.177	13.288	-8.343	3.686	173.392	-29.734	31.503	-12.839
Hour5	66.857	15.212	-7.301	3.321	173.107	-28.244	30.554	-13.904
Hour6	67.332	17.344	-10.490	4.570	173.712	-25.471	27.815	-13.380
Hour7	64.165	20.065	-7.279	3.349	172.911	-24.059	26.766	-13.952
Hour8	67.352	16.542	-8.864	4.343	175.679	-25.534	27.425	-12.441
Hour9	81.832	1.842	-24.462	10.519	161.558	-41.618	42.652	-12.885
Hour10	71.184	5.454	1.184	-0.510	157.548	-46.513	46.937	-11.828
Hour11	61.822	9.220	16.552	-6.951	164.382	-44.694	45.229	-11.178
Hour12	63.022	8.420	14.708	-6.153	161.962	-46.511	47.286	-11.959
Hour13	63.150	6.683	14.991	-5.716	158.846	-50.098	51.166	-13.003
Hour14	63.356	4.944	14.881	-5.702	156.500	-53.546	55.057	-14.688
Hour15	63.455	2.011	17.272	-6.750	152.721	-58.164	59.851	-15.365
Hour16	64.341	-0.572	17.294	-7.007	152.650	-59.247	60.617	-14.331
Hour17	65.381	-3.047	17.637	-7.538	154.175	-57.265	58.187	-11.156
Hour18	68.084	-5.466	14.567	-6.718	154.503	-53.452	54.026	-6.070
Hour19	73.233	-6.960	6.405	-2.998	152.947	-49.190	49.421	-1.854
Hour20	76.928	-6.474	-0.632	0.158	150.126	-50.807	51.000	-4.886
Hour21	77.213	-3.514	-2.601	1.411	151.385	-50.689	50.843	-8.742
Hour22	77.760	-1.202	-5.081	2.154	156.432	-46.899	47.234	-10.059
Hour23	77.382	0.825	-6.182	2.891	158.142	-44.720	45.105	-10.115
Hour24	76.418	2.963	-7.874	3.834	161.748	-42.313	43.027	-11.014

Indiana Michigan Power Company - Michigan
Residential Cooling Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.995	0.079	0.848	0.501	14.48%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.995	0.078	0.738	0.446	19.65%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.995	0.087	0.635	0.390	38.04%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.995	0.092	0.561	0.351	45.99%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.995	0.096	0.507	0.326	553.96%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.995	0.100	0.444	0.286	49.56%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.995	0.103	0.390	0.255	65.72%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.995	0.097	0.370	0.234	85.04%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.995	0.084	0.380	0.231	20.02%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.995	0.075	0.437	0.266	33.10%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.995	0.074	0.564	0.338	17.54%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.995	0.073	0.720	0.431	67.91%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.995	0.072	0.909	0.543	26.15%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.995	0.070	1.103	0.664	21.47%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.995	0.066	1.277	0.768	31.33%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.995	0.063	1.447	0.870	28.44%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.995	0.060	1.622	0.975	39.74%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.995	0.058	1.732	1.050	22.56%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.995	0.059	1.725	1.052	26.47%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.995	0.062	1.613	0.984	14.36%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.995	0.066	1.443	0.875	20.20%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.995	0.070	1.288	0.768	40.98%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.995	0.073	1.152	0.683	15.03%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.995	0.075	1.001	0.592	20.00%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Residential Heating Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.802	-0.384	0.578	0.004	-2.260	15.973	0.038	1.974
Hour2	0.679	-0.274	0.612	-0.030	-3.853	16.742	0.163	1.882
Hour3	0.658	-0.267	0.645	-0.023	-4.608	16.753	0.189	2.305
Hour4	0.650	-0.239	0.667	-0.026	-5.445	17.106	0.234	2.564
Hour5	0.659	-0.254	0.726	-0.032	-6.045	17.767	0.262	2.850
Hour6	0.610	-0.247	0.788	-0.046	-6.467	18.084	0.267	3.272
Hour7	0.447	-0.126	0.844	-0.097	-7.191	19.610	0.269	4.057
Hour8	0.343	-0.055	0.792	0.024	-6.860	19.533	0.180	4.988
Hour9	0.350	-0.077	0.728	0.157	-5.289	18.927	0.041	5.248
Hour10	0.523	-0.197	0.642	0.170	-3.224	18.034	0.030	3.158
Hour11	0.736	-0.324	0.553	0.054	-1.871	16.675	0.018	1.805
Hour12	0.898	-0.440	0.473	-0.024	-0.902	15.001	-0.012	1.173
Hour13	1.024	-0.533	0.411	-0.050	-0.491	13.682	-0.040	1.120
Hour14	1.045	-0.550	0.354	-0.031	-0.298	12.641	-0.051	1.063
Hour15	1.055	-0.573	0.329	-0.028	-0.079	11.762	-0.057	0.932
Hour16	1.107	-0.625	0.322	-0.024	0.081	11.380	-0.061	0.826
Hour17	1.149	-0.661	0.369	-0.074	0.246	12.275	-0.075	0.891
Hour18	1.189	-0.684	0.435	-0.105	0.330	13.964	-0.087	1.012
Hour19	1.034	-0.595	0.468	-0.100	0.159	13.835	-0.080	1.102
Hour20	0.914	-0.513	0.467	-0.078	-0.369	13.502	-0.072	1.517
Hour21	0.811	-0.457	0.506	-0.061	-0.544	13.894	-0.109	2.219
Hour22	0.789	-0.434	0.538	-0.040	-0.899	14.872	-0.115	2.691
Hour23	0.729	-0.371	0.544	-0.015	-1.281	15.264	-0.065	2.401
Hour24	0.704	-0.327	0.553	-0.006	-1.667	15.695	-0.035	2.392

Indiana Michigan Power Company - Michigan
Residential Heating Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.037	0.047	0.016	0.003	0.138	0.156	0.015	0.148
Hour2	0.039	0.050	0.018	0.003	0.148	0.168	0.016	0.159
Hour3	0.040	0.052	0.018	0.003	0.153	0.173	0.016	0.163
Hour4	0.042	0.054	0.019	0.004	0.160	0.181	0.017	0.171
Hour5	0.045	0.057	0.020	0.004	0.169	0.191	0.018	0.181
Hour6	0.046	0.059	0.021	0.004	0.175	0.198	0.019	0.187
Hour7	0.049	0.062	0.022	0.004	0.184	0.208	0.020	0.197
Hour8	0.047	0.060	0.021	0.004	0.179	0.202	0.019	0.191
Hour9	0.044	0.057	0.020	0.004	0.168	0.190	0.018	0.180
Hour10	0.041	0.053	0.018	0.003	0.155	0.176	0.017	0.166
Hour11	0.037	0.047	0.016	0.003	0.139	0.157	0.015	0.148
Hour12	0.032	0.041	0.014	0.003	0.122	0.138	0.013	0.130
Hour13	0.029	0.037	0.013	0.002	0.109	0.124	0.012	0.117
Hour14	0.026	0.034	0.012	0.002	0.100	0.113	0.011	0.107
Hour15	0.025	0.032	0.011	0.002	0.093	0.105	0.010	0.100
Hour16	0.024	0.031	0.011	0.002	0.090	0.102	0.010	0.097
Hour17	0.025	0.033	0.011	0.002	0.096	0.109	0.010	0.103
Hour18	0.029	0.037	0.013	0.002	0.108	0.122	0.012	0.116
Hour19	0.029	0.037	0.013	0.002	0.109	0.123	0.012	0.117
Hour20	0.029	0.037	0.013	0.002	0.108	0.122	0.012	0.115
Hour21	0.029	0.038	0.013	0.002	0.111	0.126	0.012	0.119
Hour22	0.031	0.040	0.014	0.003	0.119	0.135	0.013	0.127
Hour23	0.033	0.042	0.015	0.003	0.124	0.141	0.013	0.133
Hour24	0.034	0.044	0.015	0.003	0.130	0.147	0.014	0.139

Indiana Michigan Power Company - Michigan
Residential Heating Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	21.974	-8.221	35.290	1.209	-16.368	102.283	2.571	13.370
Hour2	17.315	-5.470	34.783	-9.298	-25.988	99.838	10.248	11.873
Hour3	16.266	-5.171	35.576	-6.944	-30.151	96.910	11.532	14.106
Hour4	15.351	-4.405	35.139	-7.378	-34.030	94.520	13.603	14.985
Hour5	14.735	-4.444	36.195	-8.735	-35.735	92.861	14.381	15.759
Hour6	13.204	-4.179	38.024	-12.091	-37.016	91.513	14.212	17.514
Hour7	9.186	-2.022	38.672	-24.012	-39.093	94.253	13.582	20.626
Hour8	7.269	-0.915	37.419	6.155	-38.414	96.699	9.394	26.118
Hour9	7.881	-1.363	36.553	42.805	-31.486	99.625	2.254	29.217
Hour10	12.741	-3.743	34.878	50.034	-20.778	102.751	1.827	19.034
Hour11	20.048	-6.900	33.625	17.809	-13.482	106.261	1.230	12.168
Hour12	27.912	-10.681	32.805	-8.913	-7.419	109.061	-0.905	9.019
Hour13	35.384	-14.396	31.648	-20.930	-4.489	110.575	-3.394	9.576
Hour14	39.435	-16.219	29.846	-14.158	-2.970	111.590	-4.718	9.924
Hour15	42.772	-18.140	29.728	-13.633	-0.847	111.496	-5.708	9.347
Hour16	46.285	-20.436	30.015	-12.004	0.894	111.269	-6.258	8.544
Hour17	45.116	-20.276	32.320	-35.153	2.550	112.708	-7.271	8.649
Hour18	41.533	-18.674	33.900	-44.203	3.047	114.026	-7.496	8.740
Hour19	35.841	-16.108	36.198	-41.747	1.456	112.152	-6.863	9.449
Hour20	32.003	-14.049	36.503	-33.029	-3.414	110.575	-6.187	13.145
Hour21	27.584	-12.164	38.414	-25.100	-4.893	110.578	-9.131	18.681
Hour22	25.080	-10.777	38.127	-15.558	-7.560	110.557	-9.026	21.157
Hour23	22.154	-8.810	36.892	-5.537	-10.298	108.498	-4.896	18.048
Hour24	20.478	-7.434	35.877	-2.194	-12.826	106.751	-2.528	17.209

Indiana Michigan Power Company - Michigan
Residential Heating Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.995	0.057	1.420	0.792	5.41%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.995	0.053	1.525	0.861	11.18%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.995	0.053	1.572	0.893	9.37%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.995	0.053	1.646	0.940	17.13%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.995	0.052	1.740	0.997	7.29%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.995	0.052	1.798	1.034	8.04%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.995	0.050	1.893	1.095	21.26%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.995	0.050	1.837	1.066	4.83%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.995	0.056	1.728	0.995	4.55%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.995	0.060	1.596	0.903	4.85%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.995	0.057	1.427	0.793	5.82%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.996	0.060	1.251	0.684	6.51%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.996	0.064	1.125	0.607	7.16%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.996	0.066	1.030	0.552	10.65%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.996	0.069	0.960	0.512	30.98%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.996	0.070	0.930	0.494	13.72%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.996	0.071	0.991	0.531	25.91%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.996	0.069	1.114	0.600	7.83%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.996	0.065	1.122	0.605	5.35%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.996	0.063	1.111	0.605	5.10%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.996	0.060	1.143	0.628	5.41%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.995	0.059	1.224	0.676	5.04%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.995	0.057	1.280	0.710	4.82%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.995	0.056	1.337	0.744	4.83%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model Coefficients

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August
Hour1	19.135	0.041	0.562	0.424	0.217	0.304	0.885	-0.600	-1.400	-1.356
Hour2	12.868	-0.874	0.393	0.363	0.269	0.397	1.240	0.336	-0.303	-0.391
Hour3	8.937	-1.061	0.281	0.140	-0.038	-0.178	0.141	-0.483	-0.922	-0.931
Hour4	6.602	-0.488	0.202	0.147	0.055	0.073	0.414	-0.057	-0.401	-0.413
Hour5	5.307	-0.074	0.157	0.072	-0.032	-0.084	-0.043	-0.461	-0.683	-0.641
Hour6	6.339	0.539	0.177	0.164	0.128	0.247	0.415	-0.112	-0.356	-0.321
Hour7	9.616	1.321	0.259	0.208	0.123	0.291	0.328	-0.523	-0.864	-0.740
Hour8	13.499	1.407	0.371	-0.011	-0.419	-0.719	-1.529	-2.776	-3.204	-2.831
Hour9	14.818	0.565	0.425	-0.104	-0.648	-1.246	-2.264	-3.582	-4.052	-3.653
Hour10	12.976	-1.861	0.416	-0.146	-0.701	-1.614	-2.314	-3.299	-3.738	-3.543
Hour11	11.085	-1.385	0.351	-0.140	-0.628	-1.400	-2.070	-2.932	-3.308	-3.110
Hour12	9.207	-1.108	0.290	-0.135	-0.564	-1.207	-1.799	-2.524	-2.859	-2.669
Hour13	7.875	-0.957	0.249	-0.060	-0.376	-0.831	-1.156	-1.758	-2.064	-1.944
Hour14	7.728	-0.754	0.241	-0.050	-0.349	-0.765	-1.093	-1.697	-1.988	-1.863
Hour15	7.567	-0.762	0.236	-0.075	-0.395	-0.837	-1.223	-1.819	-2.111	-1.968
Hour16	7.658	-0.939	0.242	-0.151	-0.549	-1.134	-1.729	-2.341	-2.627	-2.436
Hour17	9.130	-1.107	0.288	-0.315	-0.901	-1.851	-3.023	-3.793	-4.061	-3.741
Hour18	12.892	-0.978	0.397	-0.763	-1.872	-3.684	-6.458	-7.686	-7.944	-7.208
Hour19	23.458	-0.245	0.694	-1.724	-4.024	-7.701	-14.061	-16.516	-16.846	-15.131
Hour20	36.155	-0.362	1.070	-2.842	-6.547	-12.545	-22.967	-26.805	-27.231	-24.454
Hour21	42.582	0.192	1.250	-2.086	-5.271	-10.236	-18.710	-22.912	-23.671	-21.324
Hour22	43.194	0.583	1.261	-0.043	-1.374	-2.928	-5.039	-8.726	-10.062	-9.216
Hour23	38.492	0.837	1.118	0.831	0.453	0.518	1.297	-1.760	-3.150	-3.037
Hour24	28.676	0.713	0.831	0.787	0.654	1.013	2.137	-0.098	-1.204	-1.232

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model Coefficients

Variable	September	October	November	December	WinterFuzzy	HLight
Hour1	-0.646	-0.311	0.240	0.000	0.022	0.019
Hour2	0.186	0.146	0.483	0.000	-0.026	0.070
Hour3	-0.397	-0.266	0.200	0.000	-0.045	0.070
Hour4	-0.059	-0.017	0.195	0.000	-0.000	0.053
Hour5	-0.393	-0.226	-0.001	0.000	0.006	0.015
Hour6	-0.168	-0.039	0.035	0.000	0.041	-0.016
Hour7	-0.536	-0.206	-0.106	0.000	0.101	-0.041
Hour8	-2.280	-1.297	-0.643	0.000	0.122	-0.030
Hour9	-2.893	-1.748	-0.729	0.000	0.055	-0.006
Hour10	-2.629	-1.776	-0.390	0.000	-0.153	0.048
Hour11	-2.328	-1.550	-0.388	0.000	-0.107	0.042
Hour12	-1.979	-1.302	-0.347	0.000	-0.068	0.051
Hour13	-1.386	-0.916	-0.187	0.000	-0.058	0.045
Hour14	-1.346	-0.878	-0.200	0.000	-0.045	0.036
Hour15	-1.428	-0.927	-0.233	0.000	-0.038	0.044
Hour16	-1.817	-1.187	-0.349	0.000	-0.047	0.054
Hour17	-2.956	-1.937	-0.696	0.000	-0.076	0.043
Hour18	-5.968	-3.852	-1.690	0.000	-0.065	0.039
Hour19	-12.815	-8.157	-3.953	0.000	0.005	0.028
Hour20	-20.803	-13.260	-6.466	0.000	-0.008	0.025
Hour21	-17.985	-11.408	-5.357	0.000	-0.018	-0.043
Hour22	-7.210	-4.440	-1.547	0.000	-0.008	-0.069
Hour23	-1.881	-1.022	0.208	0.000	-0.010	-0.097
Hour24	-0.460	-0.138	0.477	0.000	0.014	-0.060

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model Standard Errors

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August	September
Hour1	1.202	0.068	0.153	0.213	0.328	0.433	0.544	0.600	0.571	0.478	0.372
Hour2	0.857	0.048	0.109	0.152	0.234	0.309	0.388	0.428	0.407	0.341	0.266
Hour3	0.579	0.033	0.074	0.103	0.158	0.209	0.262	0.289	0.275	0.230	0.180
Hour4	0.445	0.025	0.057	0.079	0.122	0.160	0.201	0.222	0.211	0.177	0.138
Hour5	0.329	0.019	0.042	0.058	0.090	0.119	0.149	0.164	0.157	0.131	0.102
Hour6	0.395	0.022	0.050	0.070	0.108	0.142	0.179	0.197	0.188	0.157	0.123
Hour7	0.588	0.033	0.075	0.104	0.161	0.212	0.266	0.293	0.279	0.234	0.182
Hour8	0.773	0.044	0.098	0.137	0.211	0.278	0.350	0.386	0.367	0.307	0.240
Hour9	0.830	0.047	0.106	0.147	0.227	0.299	0.376	0.414	0.395	0.330	0.257
Hour10	0.713	0.040	0.091	0.126	0.195	0.257	0.322	0.356	0.339	0.283	0.221
Hour11	0.610	0.034	0.078	0.108	0.167	0.220	0.276	0.305	0.290	0.243	0.189
Hour12	0.518	0.029	0.066	0.092	0.141	0.186	0.234	0.258	0.246	0.206	0.160
Hour13	0.456	0.026	0.058	0.081	0.125	0.164	0.206	0.227	0.217	0.181	0.141
Hour14	0.445	0.025	0.057	0.079	0.122	0.160	0.201	0.222	0.212	0.177	0.138
Hour15	0.438	0.025	0.056	0.078	0.120	0.158	0.198	0.218	0.208	0.174	0.136
Hour16	0.432	0.024	0.055	0.077	0.118	0.155	0.195	0.215	0.205	0.172	0.134
Hour17	0.470	0.027	0.060	0.083	0.129	0.169	0.213	0.235	0.224	0.187	0.146
Hour18	0.599	0.034	0.076	0.106	0.164	0.216	0.271	0.299	0.285	0.238	0.186
Hour19	1.034	0.058	0.132	0.183	0.283	0.372	0.468	0.516	0.491	0.411	0.320
Hour20	1.553	0.088	0.198	0.276	0.424	0.559	0.702	0.775	0.738	0.617	0.481
Hour21	1.988	0.112	0.253	0.353	0.543	0.716	0.899	0.992	0.945	0.790	0.616
Hour22	2.408	0.136	0.307	0.427	0.658	0.867	1.089	1.201	1.144	0.957	0.746
Hour23	2.311	0.130	0.294	0.410	0.632	0.832	1.045	1.153	1.099	0.919	0.716
Hour24	1.772	0.100	0.226	0.314	0.484	0.638	0.801	0.884	0.842	0.704	0.549

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model Standard Errors

Variable	October	November	December	WinterFuzzy	HLight
Hour1	0.297	0.167	0.000	0.262	0.114
Hour2	0.212	0.119	0.000	0.187	0.081
Hour3	0.143	0.080	0.000	0.126	0.055
Hour4	0.110	0.062	0.000	0.097	0.042
Hour5	0.082	0.046	0.000	0.072	0.031
Hour6	0.098	0.055	0.000	0.086	0.037
Hour7	0.145	0.082	0.000	0.128	0.056
Hour8	0.191	0.107	0.000	0.169	0.073
Hour9	0.206	0.115	0.000	0.181	0.079
Hour10	0.176	0.099	0.000	0.155	0.067
Hour11	0.151	0.085	0.000	0.133	0.058
Hour12	0.128	0.072	0.000	0.113	0.049
Hour13	0.113	0.063	0.000	0.099	0.043
Hour14	0.110	0.062	0.000	0.097	0.042
Hour15	0.108	0.061	0.000	0.095	0.041
Hour16	0.107	0.060	0.000	0.094	0.041
Hour17	0.116	0.065	0.000	0.103	0.045
Hour18	0.148	0.083	0.000	0.131	0.057
Hour19	0.256	0.143	0.000	0.226	0.098
Hour20	0.384	0.215	0.000	0.339	0.147
Hour21	0.492	0.276	0.000	0.434	0.188
Hour22	0.596	0.334	0.000	0.525	0.228
Hour23	0.572	0.321	0.000	0.504	0.219
Hour24	0.439	0.246	0.000	0.387	0.168

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model t-Statistics

Variable	Constant	WeekEnd	January	February	March	April	May	June	July	August
Hour1	15.924	0.603	3.670	1.989	0.660	0.702	1.629	-1.000	-2.450	-2.839
Hour2	15.017	-18.083	3.604	2.390	1.148	1.286	3.198	0.786	-0.743	-1.148
Hour3	15.428	-32.453	3.812	1.361	-0.242	-0.853	0.538	-1.672	-3.348	-4.044
Hour4	14.850	-19.450	3.571	1.863	0.454	0.456	2.060	-0.258	-1.899	-2.337
Hour5	16.116	-3.970	3.747	1.227	-0.353	-0.712	-0.286	-2.805	-4.367	-4.895
Hour6	16.034	24.178	3.508	2.340	1.182	1.736	2.321	-0.567	-1.896	-2.040
Hour7	16.360	39.831	3.457	1.990	0.764	1.375	1.233	-1.784	-3.094	-3.166
Hour8	17.466	32.265	3.771	-0.083	-1.983	-2.586	-4.373	-7.198	-8.723	-9.216
Hour9	17.848	12.064	4.022	-0.703	-2.854	-4.169	-6.028	-8.647	-10.268	-11.070
Hour10	18.211	-46.300	4.581	-1.155	-3.598	-6.290	-7.181	-9.280	-11.038	-12.512
Hour11	18.165	-40.219	4.519	-1.295	-3.766	-6.371	-7.498	-9.627	-11.404	-12.822
Hour12	17.789	-37.938	4.407	-1.473	-3.990	-6.476	-7.686	-9.771	-11.621	-12.975
Hour13	17.282	-37.231	4.285	-0.736	-3.020	-5.067	-5.609	-7.733	-9.528	-10.733
Hour14	17.353	-30.001	4.244	-0.634	-2.869	-4.769	-5.428	-7.635	-9.392	-10.526
Hour15	17.294	-30.861	4.234	-0.967	-3.306	-5.312	-6.180	-8.333	-10.153	-11.316
Hour16	17.746	-38.574	4.398	-1.976	-4.650	-7.302	-8.858	-10.872	-12.807	-14.206
Hour17	19.410	-41.722	4.815	-3.768	-7.010	-10.931	-14.207	-16.161	-18.162	-20.009
Hour18	21.522	-28.925	5.200	-7.180	-11.431	-17.084	-23.835	-25.713	-27.902	-30.275
Hour19	22.695	-4.207	5.272	-9.398	-14.244	-20.693	-30.077	-32.020	-34.290	-36.831
Hour20	23.287	-4.132	5.410	-10.313	-15.428	-22.442	-32.706	-34.599	-36.901	-39.630
Hour21	21.423	1.714	4.937	-5.914	-9.701	-14.304	-20.811	-23.100	-25.055	-26.992
Hour22	17.941	4.295	4.112	-0.101	-2.087	-3.378	-4.627	-7.263	-8.793	-9.631
Hour23	16.654	6.423	3.800	2.026	0.718	0.623	1.241	-1.526	-2.868	-3.306
Hour24	16.184	7.131	3.684	2.503	1.350	1.589	2.666	-0.111	-1.430	-1.750

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model t-Statistics

Variable	September	October	November	December	WinterFuzzy	HLight
Hour1	-1.735	-1.047	1.440	0.000	0.083	0.167
Hour2	0.701	0.686	4.067	0.000	-0.137	0.861
Hour3	-2.211	-1.853	2.493	0.000	-0.355	1.279
Hour4	-0.426	-0.153	3.158	0.000	-0.002	1.255
Hour5	-3.853	-2.772	-0.020	0.000	0.089	0.469
Hour6	-1.367	-0.403	0.641	0.000	0.481	-0.432
Hour7	-2.941	-1.413	-1.303	0.000	0.788	-0.733
Hour8	-9.519	-6.778	-6.001	0.000	0.722	-0.407
Hour9	-11.244	-8.506	-6.329	0.000	0.303	-0.075
Hour10	-11.906	-10.067	-3.950	0.000	-0.984	0.713
Hour11	-12.306	-10.259	-4.586	0.000	-0.807	0.729
Hour12	-12.339	-10.162	-4.836	0.000	-0.604	1.046
Hour13	-9.816	-8.118	-2.956	0.000	-0.584	1.052
Hour14	-9.752	-7.963	-3.231	0.000	-0.467	0.855
Hour15	-10.529	-8.555	-3.843	0.000	-0.400	1.064
Hour16	-13.584	-11.111	-5.838	0.000	-0.503	1.318
Hour17	-20.276	-16.637	-10.662	0.000	-0.737	0.974
Hour18	-32.142	-25.979	-20.334	0.000	-0.499	0.685
Hour19	-40.000	-31.879	-27.573	0.000	0.023	0.288
Hour20	-43.229	-34.504	-30.026	0.000	-0.024	0.171
Hour21	-29.192	-23.186	-19.431	0.000	-0.042	-0.226
Hour22	-9.661	-7.450	-4.631	0.000	-0.014	-0.303
Hour23	-2.625	-1.786	0.649	0.000	-0.020	-0.444
Hour24	-0.837	-0.315	1.940	0.000	0.036	-0.360

Indiana Michigan Power Company - Michigan
Residential Lighting Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1810	0.215	0.002	1.309	1.018	5.35%	0	0.000	0.00%	0.000
Hour2	1826	1810	0.275	0.003	0.933	0.725	5.35%	0	0.000	0.00%	0.000
Hour3	1826	1810	0.450	0.006	0.631	0.490	5.35%	0	0.000	0.00%	0.000
Hour4	1826	1810	0.283	0.003	0.484	0.376	5.35%	0	0.000	0.00%	0.000
Hour5	1826	1810	0.335	0.002	0.359	0.279	5.35%	0	0.000	0.00%	0.000
Hour6	1826	1810	0.384	0.004	0.431	0.334	5.35%	0	0.000	0.00%	0.000
Hour7	1826	1810	0.588	0.007	0.640	0.496	5.35%	0	0.000	0.00%	0.000
Hour8	1826	1810	0.743	0.006	0.842	0.651	5.35%	0	0.000	0.00%	0.000
Hour9	1826	1810	0.746	0.003	0.904	0.699	5.35%	0	0.000	0.00%	0.000
Hour10	1826	1810	0.793	0.010	0.776	0.598	5.35%	0	0.000	0.00%	0.000
Hour11	1826	1810	0.789	0.008	0.665	0.513	5.35%	0	0.000	0.00%	0.000
Hour12	1826	1810	0.783	0.008	0.564	0.435	5.35%	0	0.000	0.00%	0.000
Hour13	1826	1810	0.720	0.007	0.496	0.384	5.35%	0	0.000	0.00%	0.000
Hour14	1826	1810	0.701	0.006	0.485	0.375	5.35%	0	0.000	0.00%	0.000
Hour15	1826	1810	0.724	0.006	0.477	0.368	5.35%	0	0.000	0.00%	0.000
Hour16	1826	1810	0.806	0.008	0.470	0.362	5.35%	0	0.000	0.00%	0.000
Hour17	1826	1810	0.894	0.009	0.512	0.391	5.35%	0	0.000	0.00%	0.000
Hour18	1826	1810	0.952	0.007	0.652	0.484	5.35%	0	0.000	0.00%	0.000
Hour19	1826	1810	0.968	0.005	1.126	0.812	5.35%	0	0.000	0.00%	0.000
Hour20	1826	1810	0.973	0.006	1.691	1.202	5.35%	0	0.000	0.00%	0.000
Hour21	1826	1810	0.944	0.004	2.165	1.617	5.35%	0	0.000	0.00%	0.000
Hour22	1826	1810	0.688	0.002	2.622	2.030	5.35%	0	0.000	0.00%	0.000
Hour23	1826	1810	0.300	0.002	2.517	1.956	5.35%	0	0.000	0.00%	0.000
Hour24	1826	1810	0.209	0.002	1.930	1.500	5.35%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	-0.830	2.256	-0.666	0.408	2.903	1.193	-0.009	-1.337	56.235
Hour2	0.012	0.842	-0.198	0.690	1.460	-2.437	-0.050	3.661	60.788
Hour3	-0.177	0.992	-0.187	0.469	1.441	-2.214	-0.033	3.404	63.720
Hour4	-0.187	0.862	-0.070	0.451	1.071	-2.047	-0.021	3.072	56.785
Hour5	0.033	0.436	0.090	0.542	0.702	-1.739	-0.012	2.581	54.518
Hour6	-0.099	0.504	0.094	0.076	1.063	-1.308	0.005	2.088	59.624
Hour7	0.182	0.115	0.199	-0.257	1.419	-0.882	0.023	1.548	62.221
Hour8	0.471	-0.332	0.373	-0.832	1.908	0.475	-0.055	0.359	90.257
Hour9	0.607	-0.726	0.708	0.045	1.133	-0.731	-0.148	1.536	66.958
Hour10	0.461	-0.391	0.569	-0.147	2.073	-2.086	-0.215	2.351	62.533
Hour11	0.293	-0.095	0.448	0.048	2.275	-3.168	-0.162	3.685	74.571
Hour12	-0.387	0.877	0.174	0.048	3.310	-2.920	-0.047	3.441	89.140
Hour13	0.068	0.531	0.102	0.375	3.966	-2.474	-0.020	2.472	110.734
Hour14	-0.184	0.634	0.240	1.361	3.410	-2.159	-0.015	1.588	128.029
Hour15	-0.620	1.593	-0.251	1.768	3.524	-1.717	0.078	1.248	122.336
Hour16	-1.340	2.755	-0.695	1.995	3.267	-1.606	-0.014	1.524	116.411
Hour17	-1.455	3.315	-1.167	2.062	3.478	-1.713	-0.005	1.291	118.856
Hour18	-1.733	3.867	-1.530	2.558	2.652	-1.155	0.112	1.454	121.522
Hour19	-1.443	3.574	-1.453	2.532	2.877	-0.612	0.027	0.625	134.232
Hour20	-1.338	3.536	-1.385	2.239	2.945	0.677	-0.052	-1.157	129.161
Hour21	-0.816	2.678	-1.007	2.164	2.692	0.535	-0.080	-0.954	119.360
Hour22	-0.494	2.235	-0.931	1.803	2.694	1.004	-0.079	-1.710	107.987
Hour23	-0.502	2.080	-0.728	1.698	2.103	1.424	-0.037	-1.827	100.941
Hour24	-0.583	2.160	-0.773	1.581	1.981	1.171	0.027	-1.590	78.642

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	58.448	1.087	-3.142	4.737	-3.058	-8.062	13.796	3.639	21.957	16.826
Hour2	68.655	3.867	2.155	9.879	3.710	-1.885	16.064	7.267	23.825	19.702
Hour3	70.487	1.628	4.904	13.500	7.571	4.234	21.226	12.227	26.718	22.456
Hour4	61.922	0.673	5.394	12.877	7.922	3.034	18.304	9.458	22.034	19.691
Hour5	57.408	-0.300	4.459	13.323	7.885	3.667	19.808	9.773	20.405	18.207
Hour6	56.844	0.197	4.426	14.210	10.293	4.805	22.232	9.931	19.970	19.041
Hour7	52.256	0.956	3.794	13.082	10.442	2.665	18.901	7.157	15.949	16.302
Hour8	62.149	-0.504	5.389	14.919	12.522	-0.006	15.819	-1.890	5.359	3.906
Hour9	55.658	-3.705	2.023	11.956	9.252	1.006	19.369	4.358	9.021	9.975
Hour10	78.142	-3.678	0.287	7.983	0.973	-0.675	19.160	5.084	12.793	12.778
Hour11	98.787	6.662	-1.373	5.594	-0.821	-3.633	18.910	7.456	16.936	15.369
Hour12	113.945	14.779	1.114	5.240	0.312	1.034	23.202	15.303	26.219	22.743
Hour13	137.260	18.692	3.085	8.314	1.970	6.614	30.379	20.262	33.748	26.048
Hour14	152.851	16.182	3.209	8.452	2.507	9.337	33.892	24.918	39.646	30.600
Hour15	145.115	8.884	3.486	6.602	0.290	4.573	30.346	20.296	38.434	29.662
Hour16	138.040	3.505	0.688	5.362	-2.014	2.414	28.462	18.990	38.541	29.745
Hour17	138.816	3.034	1.755	4.675	-2.277	-0.594	25.308	13.965	35.416	25.808
Hour18	133.329	3.704	0.500	3.617	-4.733	0.371	29.598	16.444	40.182	29.414
Hour19	141.977	3.362	-2.594	-0.057	-7.711	0.296	36.070	26.954	48.952	34.421
Hour20	135.348	2.644	-1.263	4.442	-2.688	2.908	41.522	33.817	56.793	40.199
Hour21	124.724	0.128	-5.028	6.291	1.690	0.407	37.561	25.618	50.991	34.494
Hour22	110.461	1.309	-2.875	5.120	2.347	0.544	30.344	17.205	39.896	27.260
Hour23	98.739	3.990	-2.628	7.459	4.470	0.694	28.327	12.684	34.373	25.919
Hour24	78.192	3.177	-4.518	4.576	-1.035	-5.350	23.564	10.929	32.181	22.739

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Coefficients

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	-0.260	-12.008	-15.016	0.000	-9.731	-4.984	1.640	-1.665
Hour2	3.660	-8.941	-12.507	0.000	-6.541	-6.131	0.469	-2.996
Hour3	8.141	-4.433	-9.152	0.000	-4.947	-6.950	-0.186	-3.590
Hour4	7.905	-4.691	-8.158	0.000	-4.985	-9.329	0.430	-3.561
Hour5	8.822	-3.870	-8.101	0.000	-4.143	-8.410	0.563	-4.034
Hour6	9.473	-4.294	-7.633	0.000	-3.583	-10.901	0.532	-5.775
Hour7	8.302	-6.425	-8.504	0.000	-3.209	-13.756	1.013	-7.057
Hour8	2.279	-12.476	-8.040	0.000	-0.824	-19.204	0.635	-6.228
Hour9	6.785	-9.509	-7.950	0.000	-4.237	-14.562	1.883	-6.612
Hour10	3.259	-7.402	-10.725	0.000	-4.235	-4.315	1.286	-1.410
Hour11	0.641	-10.707	-13.738	0.000	-8.370	-2.020	0.360	0.514
Hour12	5.003	-8.862	-13.698	0.000	-10.937	0.572	-1.209	2.210
Hour13	5.027	-6.651	-12.038	0.000	-6.754	3.907	-3.471	3.600
Hour14	4.646	-7.508	-14.112	0.000	-4.631	3.081	-5.201	3.847
Hour15	5.653	-7.802	-13.075	0.000	-7.151	3.659	-4.416	2.333
Hour16	8.120	-6.991	-13.597	0.000	-8.627	5.136	-3.615	-0.215
Hour17	4.435	-9.873	-14.630	0.000	-8.364	2.297	-3.281	-1.026
Hour18	9.103	-7.971	-13.729	0.000	-10.864	0.988	-2.859	-4.474
Hour19	12.861	-7.666	-13.076	0.000	-10.957	0.735	-3.529	-7.441
Hour20	14.328	-4.964	-9.439	0.000	-7.305	-4.029	-3.122	-12.167
Hour21	10.048	-3.605	-11.653	0.000	-6.926	-6.950	-2.596	-11.549
Hour22	10.196	-6.296	-14.323	0.000	-10.291	-3.839	-2.050	-7.508
Hour23	7.260	-13.170	-16.319	0.000	-13.161	-7.154	-1.343	-4.369
Hour24	2.678	-13.538	-17.110	0.000	-12.830	-4.873	0.392	-3.392

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	0.082	0.111	0.046	0.086	0.127	0.130	0.012	0.204	3.246
Hour2	0.081	0.110	0.046	0.085	0.126	0.128	0.012	0.202	3.210
Hour3	0.081	0.110	0.046	0.085	0.126	0.128	0.012	0.202	3.212
Hour4	0.082	0.112	0.046	0.086	0.127	0.130	0.012	0.205	3.254
Hour5	0.084	0.115	0.048	0.089	0.131	0.134	0.012	0.211	3.347
Hour6	0.085	0.116	0.048	0.089	0.132	0.135	0.012	0.213	3.381
Hour7	0.087	0.119	0.049	0.092	0.136	0.138	0.012	0.218	3.462
Hour8	0.089	0.122	0.051	0.094	0.139	0.142	0.013	0.223	3.551
Hour9	0.086	0.118	0.049	0.091	0.134	0.137	0.012	0.216	3.431
Hour10	0.085	0.116	0.048	0.089	0.132	0.135	0.012	0.212	3.374
Hour11	0.084	0.114	0.047	0.088	0.131	0.133	0.012	0.210	3.334
Hour12	0.083	0.113	0.047	0.088	0.130	0.132	0.012	0.208	3.312
Hour13	0.085	0.116	0.048	0.089	0.132	0.135	0.012	0.213	3.384
Hour14	0.088	0.119	0.050	0.092	0.136	0.139	0.013	0.219	3.485
Hour15	0.091	0.124	0.051	0.095	0.141	0.144	0.013	0.227	3.607
Hour16	0.095	0.129	0.054	0.100	0.147	0.150	0.014	0.237	3.766
Hour17	0.100	0.137	0.057	0.105	0.156	0.159	0.014	0.251	3.987
Hour18	0.106	0.144	0.060	0.112	0.165	0.168	0.015	0.265	4.216
Hour19	0.106	0.145	0.060	0.112	0.165	0.169	0.015	0.266	4.226
Hour20	0.103	0.141	0.059	0.109	0.161	0.164	0.015	0.259	4.113
Hour21	0.097	0.133	0.055	0.102	0.151	0.155	0.014	0.243	3.869
Hour22	0.094	0.128	0.053	0.099	0.146	0.149	0.013	0.234	3.726
Hour23	0.091	0.124	0.052	0.096	0.142	0.145	0.013	0.228	3.620
Hour24	0.086	0.117	0.049	0.091	0.134	0.137	0.012	0.215	3.424

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	3.266	0.577	0.366	0.546	0.837	1.086	1.308	1.388	1.321	1.121
Hour2	3.229	0.571	0.362	0.540	0.827	1.074	1.294	1.373	1.307	1.109
Hour3	3.232	0.571	0.363	0.540	0.828	1.074	1.295	1.374	1.308	1.110
Hour4	3.274	0.579	0.367	0.547	0.839	1.088	1.311	1.392	1.325	1.124
Hour5	3.367	0.595	0.378	0.563	0.863	1.119	1.349	1.432	1.363	1.156
Hour6	3.402	0.601	0.382	0.568	0.872	1.131	1.363	1.446	1.377	1.168
Hour7	3.483	0.616	0.391	0.582	0.892	1.158	1.395	1.481	1.409	1.196
Hour8	3.572	0.631	0.401	0.597	0.915	1.188	1.431	1.519	1.445	1.227
Hour9	3.452	0.610	0.387	0.577	0.884	1.148	1.383	1.468	1.397	1.185
Hour10	3.394	0.600	0.381	0.567	0.869	1.128	1.359	1.443	1.373	1.165
Hour11	3.354	0.593	0.376	0.560	0.859	1.115	1.343	1.426	1.357	1.152
Hour12	3.331	0.589	0.374	0.557	0.854	1.108	1.334	1.416	1.348	1.144
Hour13	3.404	0.602	0.382	0.569	0.872	1.132	1.364	1.447	1.377	1.169
Hour14	3.506	0.620	0.393	0.586	0.898	1.165	1.404	1.490	1.419	1.204
Hour15	3.629	0.641	0.407	0.606	0.930	1.207	1.454	1.543	1.469	1.246
Hour16	3.788	0.670	0.425	0.633	0.971	1.260	1.518	1.611	1.533	1.301
Hour17	4.011	0.709	0.450	0.670	1.028	1.333	1.607	1.705	1.623	1.377
Hour18	4.241	0.750	0.476	0.709	1.087	1.410	1.699	1.803	1.716	1.457
Hour19	4.251	0.751	0.477	0.710	1.089	1.413	1.703	1.807	1.720	1.460
Hour20	4.138	0.731	0.464	0.691	1.060	1.376	1.658	1.759	1.674	1.421
Hour21	3.892	0.688	0.437	0.650	0.997	1.294	1.559	1.655	1.575	1.337
Hour22	3.749	0.662	0.421	0.626	0.960	1.246	1.502	1.594	1.517	1.287
Hour23	3.642	0.644	0.409	0.609	0.933	1.211	1.459	1.549	1.474	1.251
Hour24	3.444	0.609	0.387	0.576	0.882	1.145	1.380	1.464	1.394	1.183

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Standard Errors

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.943	0.747	0.388	0.000	0.617	0.625	0.310	0.483
Hour2	0.932	0.738	0.383	0.000	0.610	0.618	0.306	0.478
Hour3	0.933	0.739	0.384	0.000	0.611	0.619	0.307	0.478
Hour4	0.945	0.749	0.389	0.000	0.619	0.627	0.311	0.484
Hour5	0.972	0.770	0.400	0.000	0.637	0.645	0.319	0.498
Hour6	0.982	0.778	0.404	0.000	0.643	0.651	0.323	0.503
Hour7	1.006	0.796	0.414	0.000	0.658	0.667	0.330	0.515
Hour8	1.031	0.817	0.424	0.000	0.675	0.684	0.339	0.528
Hour9	0.997	0.789	0.410	0.000	0.653	0.661	0.327	0.510
Hour10	0.980	0.776	0.403	0.000	0.642	0.650	0.322	0.502
Hour11	0.968	0.767	0.398	0.000	0.634	0.642	0.318	0.496
Hour12	0.962	0.762	0.396	0.000	0.630	0.638	0.316	0.493
Hour13	0.983	0.778	0.404	0.000	0.644	0.652	0.323	0.503
Hour14	1.012	0.802	0.416	0.000	0.663	0.671	0.333	0.518
Hour15	1.048	0.830	0.431	0.000	0.686	0.695	0.344	0.537
Hour16	1.094	0.866	0.450	0.000	0.716	0.725	0.359	0.560
Hour17	1.158	0.917	0.476	0.000	0.758	0.768	0.380	0.593
Hour18	1.225	0.970	0.504	0.000	0.802	0.812	0.402	0.627
Hour19	1.228	0.972	0.505	0.000	0.804	0.814	0.403	0.629
Hour20	1.195	0.946	0.491	0.000	0.782	0.792	0.393	0.612
Hour21	1.124	0.890	0.462	0.000	0.736	0.745	0.369	0.576
Hour22	1.082	0.857	0.445	0.000	0.709	0.718	0.356	0.554
Hour23	1.052	0.833	0.432	0.000	0.689	0.697	0.345	0.539
Hour24	0.995	0.788	0.409	0.000	0.651	0.659	0.327	0.509

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	-10.175	20.286	-14.412	4.749	22.841	9.196	-0.750	-6.548	17.323
Hour2	0.151	7.651	-4.338	8.122	11.614	-19.003	-4.373	18.133	18.937
Hour3	-2.189	9.009	-4.094	5.522	11.455	-17.254	-2.873	16.844	19.835
Hour4	-2.285	7.731	-1.513	5.242	8.408	-15.746	-1.809	15.007	17.450
Hour5	0.395	3.805	1.886	6.125	5.358	-13.006	-1.036	12.258	16.289
Hour6	-1.161	4.350	1.950	0.848	8.026	-9.680	0.431	9.816	17.633
Hour7	2.097	0.971	4.041	-2.804	10.467	-6.378	1.857	7.108	17.971
Hour8	5.278	-2.729	7.377	-8.856	13.725	3.348	-4.303	1.606	25.420
Hour9	7.045	-6.171	14.500	0.500	8.438	-5.333	-12.012	7.119	19.514
Hour10	5.441	-3.382	11.850	-1.646	15.696	-15.478	-17.763	11.077	18.536
Hour11	3.499	-0.835	9.431	0.540	17.429	-23.782	-13.555	17.570	22.368
Hour12	-4.651	7.731	3.687	0.552	25.532	-22.070	-3.985	16.519	26.918
Hour13	0.797	4.581	2.120	4.193	29.938	-18.300	-1.668	11.615	32.725
Hour14	-2.102	5.307	4.846	14.765	24.993	-15.506	-1.236	7.244	36.741
Hour15	-6.841	12.887	-4.887	18.527	24.951	-11.912	6.015	5.501	33.912
Hour16	-14.158	21.349	-12.953	20.032	22.156	-10.675	-1.022	6.435	30.912
Hour17	-14.525	24.267	-20.561	19.551	22.280	-10.757	-0.353	5.150	29.812
Hour18	-16.361	26.766	-25.493	22.940	16.070	-6.856	7.409	5.483	28.824
Hour19	-13.587	24.686	-24.153	22.657	17.393	-3.625	1.759	2.353	31.766
Hour20	-12.944	25.089	-23.650	20.584	18.287	4.117	-3.533	-4.473	31.401
Hour21	-8.397	20.203	-18.274	21.143	17.775	3.460	-5.752	-3.921	30.848
Hour22	-5.271	17.503	-17.551	18.295	18.466	6.744	-5.915	-7.295	28.980
Hour23	-5.517	16.770	-14.130	17.735	14.834	9.847	-2.810	-8.023	27.881
Hour24	-6.781	18.413	-15.853	17.457	14.779	8.564	2.161	-7.382	22.970

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	17.898	1.883	-8.574	8.681	-3.655	-7.426	10.546	2.621	16.616	15.004
Hour2	21.261	6.776	5.947	18.309	4.484	-1.756	12.418	5.293	18.233	17.766
Hour3	21.811	2.850	13.522	24.998	9.143	3.940	16.396	8.899	20.430	20.234
Hour4	18.916	1.164	14.684	23.542	9.446	2.788	13.958	6.795	16.634	17.516
Hour5	17.050	-0.505	11.800	23.680	9.141	3.276	14.686	6.827	14.976	15.746
Hour6	16.711	0.328	11.595	25.000	11.810	4.249	16.315	6.866	14.508	16.300
Hour7	15.003	1.553	9.707	22.477	11.701	2.301	13.546	4.833	11.316	13.629
Hour8	17.399	-0.798	13.444	24.996	13.683	-0.005	11.056	-1.244	3.708	3.184
Hour9	16.124	-6.073	5.222	20.728	10.462	0.876	14.008	2.970	6.459	8.415
Hour10	23.025	-6.132	0.755	14.076	1.119	-0.598	14.093	3.523	9.316	10.964
Hour11	29.455	11.239	-3.647	9.981	-0.956	-3.259	14.075	5.229	12.479	13.344
Hour12	34.203	25.102	2.980	9.414	0.366	0.934	17.386	10.804	19.449	19.879
Hour13	40.322	31.070	8.076	14.617	2.259	5.844	22.278	14.000	24.499	22.282
Hour14	43.603	26.119	8.157	14.428	2.792	8.012	24.135	16.719	27.948	25.418
Hour15	39.987	13.852	8.561	10.887	0.312	3.790	20.874	13.154	26.172	23.801
Hour16	36.437	5.235	1.619	8.470	-2.075	1.917	18.755	11.790	25.141	22.863
Hour17	34.611	4.280	3.899	6.976	-2.216	-0.446	15.752	8.190	21.822	18.738
Hour18	31.436	4.942	1.051	5.104	-4.355	0.263	17.421	9.119	23.413	20.195
Hour19	33.399	4.475	-5.437	-0.080	-7.080	0.209	21.182	14.914	28.458	23.578
Hour20	32.709	3.615	-2.720	6.424	-2.535	2.114	25.050	19.222	33.918	28.289
Hour21	32.043	0.187	-11.511	9.672	1.695	0.315	24.089	15.480	32.373	25.805
Hour22	29.467	1.976	-6.834	8.175	2.444	0.437	20.207	10.795	26.301	21.175
Hour23	27.110	6.199	-6.429	12.256	4.791	0.573	19.416	8.191	23.322	20.722
Hour24	22.702	5.219	-11.688	7.952	-1.173	-4.672	17.079	7.463	23.090	19.224

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model t-Statistics

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	-0.275	-16.080	-38.728	0.000	-15.761	-7.971	5.295	-3.448
Hour2	3.925	-12.108	-32.621	0.000	-10.715	-9.917	1.531	-6.273
Hour3	8.724	-5.998	-23.852	0.000	-8.097	-11.234	-0.607	-7.511
Hour4	8.362	-6.266	-20.990	0.000	-8.055	-14.885	1.384	-7.355
Hour5	9.074	-5.027	-20.263	0.000	-6.508	-13.046	1.764	-8.102
Hour6	9.644	-5.521	-18.900	0.000	-5.572	-16.738	1.650	-11.480
Hour7	8.255	-8.067	-20.563	0.000	-4.874	-20.628	3.067	-13.700
Hour8	2.210	-15.274	-18.958	0.000	-1.221	-28.082	1.873	-11.791
Hour9	6.807	-12.047	-19.399	0.000	-6.493	-22.035	5.751	-12.953
Hour10	3.326	-9.538	-26.616	0.000	-6.601	-6.642	3.995	-2.810
Hour11	0.662	-13.961	-34.500	0.000	-13.201	-3.145	1.132	1.036
Hour12	5.200	-11.633	-34.631	0.000	-17.366	0.896	-3.826	4.486
Hour13	5.114	-8.544	-29.784	0.000	-10.496	5.996	-10.748	7.151
Hour14	4.590	-9.366	-33.907	0.000	-6.988	4.590	-15.641	7.421
Hour15	5.394	-9.402	-30.345	0.000	-10.423	5.266	-12.827	4.348
Hour16	7.423	-8.070	-30.230	0.000	-12.046	7.081	-10.058	-0.384
Hour17	3.830	-10.765	-30.723	0.000	-11.031	2.992	-8.625	-1.731
Hour18	7.433	-8.219	-27.263	0.000	-13.549	1.217	-7.106	-7.133
Hour19	10.477	-7.886	-25.909	0.000	-13.634	0.903	-8.753	-11.837
Hour20	11.991	-5.246	-19.212	0.000	-9.339	-5.086	-7.954	-19.883
Hour21	8.940	-4.050	-25.216	0.000	-9.412	-9.327	-7.032	-20.064
Hour22	9.419	-7.345	-32.182	0.000	-14.522	-5.349	-5.764	-13.545
Hour23	6.903	-15.813	-37.738	0.000	-19.114	-10.260	-3.887	-8.113
Hour24	2.693	-17.189	-41.840	0.000	-19.704	-7.390	1.199	-6.659

Indiana Michigan Power Company - Michigan
Residential Other Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1799	0.968	0.058	3.004	2.434	2.96%	0	0.000	0.00%	0.000
Hour2	1826	1799	0.954	0.055	2.970	2.352	3.13%	0	0.000	0.00%	0.000
Hour3	1826	1799	0.946	0.054	2.973	2.299	3.15%	0	0.000	0.00%	0.000
Hour4	1826	1799	0.931	0.052	3.011	2.286	3.23%	0	0.000	0.00%	0.000
Hour5	1826	1799	0.918	0.050	3.097	2.312	3.34%	0	0.000	0.00%	0.000
Hour6	1826	1799	0.914	0.049	3.129	2.328	3.33%	0	0.000	0.00%	0.000
Hour7	1826	1799	0.921	0.050	3.204	2.401	3.34%	0	0.000	0.00%	0.000
Hour8	1826	1799	0.960	0.051	3.286	2.514	2.98%	0	0.000	0.00%	0.000
Hour9	1826	1799	0.938	0.048	3.175	2.463	2.83%	0	0.000	0.00%	0.000
Hour10	1826	1799	0.930	0.057	3.122	2.408	2.64%	0	0.000	0.00%	0.000
Hour11	1826	1799	0.957	0.058	3.085	2.392	2.51%	0	0.000	0.00%	0.000
Hour12	1826	1799	0.969	0.060	3.064	2.386	2.43%	0	0.000	0.00%	0.000
Hour13	1826	1799	0.975	0.062	3.131	2.442	2.44%	0	0.000	0.00%	0.000
Hour14	1826	1799	0.975	0.063	3.224	2.517	2.49%	0	0.000	0.00%	0.000
Hour15	1826	1799	0.977	0.064	3.338	2.595	2.55%	0	0.000	0.00%	0.000
Hour16	1826	1799	0.976	0.062	3.485	2.701	2.65%	0	0.000	0.00%	0.000
Hour17	1826	1799	0.974	0.060	3.689	2.861	2.81%	0	0.000	0.00%	0.000
Hour18	1826	1799	0.972	0.058	3.901	3.052	2.92%	0	0.000	0.00%	0.000
Hour19	1826	1799	0.975	0.057	3.910	3.106	2.85%	0	0.000	0.00%	0.000
Hour20	1826	1799	0.979	0.057	3.806	3.056	2.80%	0	0.000	0.00%	0.000
Hour21	1826	1799	0.978	0.057	3.580	2.888	2.82%	0	0.000	0.00%	0.000
Hour22	1826	1799	0.971	0.054	3.448	2.785	2.96%	0	0.000	0.00%	0.000
Hour23	1826	1799	0.970	0.053	3.350	2.732	2.93%	0	0.000	0.00%	0.000
Hour24	1826	1799	0.974	0.055	3.168	2.602	2.88%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Commercial Cooling Peak Demand Model Coefficients

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.483	0.044	-0.124	0.107	3.572	-1.347	0.139	-0.373
Hour2	0.358	0.129	-0.105	0.082	2.704	-0.797	0.082	-0.252
Hour3	0.350	0.127	-0.110	0.086	2.609	-0.745	0.077	-0.230
Hour4	0.350	0.124	-0.142	0.105	2.486	-0.681	0.070	-0.210
Hour5	0.384	0.102	-0.223	0.160	2.494	-0.700	0.072	-0.214
Hour6	0.425	0.095	-0.263	0.186	2.716	-0.808	0.083	-0.255
Hour7	0.448	0.080	-0.253	0.181	2.917	-0.932	0.097	-0.296
Hour8	0.440	0.111	-0.203	0.145	3.051	-0.973	0.102	-0.348
Hour9	0.503	0.103	-0.163	0.122	3.715	-1.317	0.139	-0.465
Hour10	0.585	0.078	-0.129	0.101	4.498	-1.732	0.182	-0.577
Hour11	0.647	0.058	-0.126	0.100	5.028	-2.010	0.212	-0.655
Hour12	0.644	0.066	-0.081	0.068	5.204	-2.105	0.222	-0.688
Hour13	0.681	0.057	-0.086	0.077	5.439	-2.206	0.232	-0.713
Hour14	0.670	0.057	-0.048	0.051	5.473	-2.237	0.236	-0.721
Hour15	0.687	0.051	-0.057	0.058	5.578	-2.286	0.241	-0.727
Hour16	0.675	0.061	-0.054	0.055	5.490	-2.233	0.235	-0.724
Hour17	0.665	0.058	-0.091	0.082	5.262	-2.122	0.224	-0.688
Hour18	0.664	0.032	-0.088	0.083	5.230	-2.142	0.225	-0.653
Hour19	0.645	0.027	-0.076	0.077	5.094	-2.087	0.218	-0.616
Hour20	0.589	0.047	-0.011	0.031	4.865	-1.974	0.206	-0.586
Hour21	0.592	0.025	-0.125	0.110	4.479	-1.801	0.188	-0.525
Hour22	0.550	0.042	-0.119	0.103	4.155	-1.627	0.170	-0.485
Hour23	0.507	0.061	-0.059	0.064	3.993	-1.530	0.160	-0.459
Hour24	0.470	0.077	-0.086	0.078	3.619	-1.325	0.138	-0.399

Indiana Michigan Power Company - Michigan
Commercial Cooling Peak Demand Model Standard Errors

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.008	0.013	0.011	0.021	0.030	0.031	0.003	0.035
Hour2	0.006	0.010	0.009	0.016	0.022	0.023	0.002	0.026
Hour3	0.006	0.009	0.008	0.015	0.022	0.022	0.002	0.025
Hour4	0.006	0.009	0.008	0.014	0.021	0.021	0.002	0.024
Hour5	0.006	0.009	0.008	0.015	0.021	0.022	0.002	0.024
Hour6	0.006	0.010	0.009	0.016	0.023	0.024	0.002	0.027
Hour7	0.007	0.011	0.009	0.017	0.025	0.025	0.003	0.029
Hour8	0.007	0.011	0.010	0.018	0.026	0.026	0.003	0.030
Hour9	0.008	0.013	0.012	0.022	0.031	0.032	0.003	0.036
Hour10	0.010	0.016	0.014	0.026	0.037	0.038	0.004	0.043
Hour11	0.011	0.018	0.016	0.029	0.041	0.043	0.004	0.048
Hour12	0.011	0.019	0.017	0.030	0.043	0.044	0.004	0.050
Hour13	0.012	0.019	0.017	0.031	0.045	0.046	0.005	0.052
Hour14	0.012	0.019	0.017	0.031	0.045	0.046	0.005	0.052
Hour15	0.012	0.020	0.018	0.032	0.046	0.047	0.005	0.053
Hour16	0.012	0.020	0.017	0.031	0.045	0.047	0.005	0.053
Hour17	0.012	0.019	0.017	0.030	0.043	0.045	0.005	0.051
Hour18	0.012	0.019	0.017	0.030	0.043	0.045	0.005	0.050
Hour19	0.011	0.018	0.016	0.029	0.042	0.043	0.004	0.049
Hour20	0.011	0.017	0.015	0.028	0.040	0.041	0.004	0.047
Hour21	0.010	0.016	0.014	0.026	0.037	0.038	0.004	0.043
Hour22	0.009	0.015	0.013	0.024	0.034	0.036	0.004	0.040
Hour23	0.009	0.014	0.013	0.023	0.033	0.034	0.003	0.038
Hour24	0.008	0.013	0.012	0.021	0.030	0.031	0.003	0.035

Indiana Michigan Power Company - Michigan
Commercial Cooling Peak Demand Model t-Statistics

Variable	CDD65	CDD70	CDD65WkEnd	CDD70WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	61.017	3.404	-10.803	5.180	120.466	-43.961	44.666	-10.766
Hour2	60.114	13.350	-12.148	5.284	121.321	-34.601	35.071	-9.689
Hour3	60.947	13.579	-13.153	5.703	121.218	-33.503	33.829	-9.145
Hour4	63.445	13.829	-17.741	7.297	120.493	-31.938	32.187	-8.734
Hour5	68.523	11.234	-27.474	10.949	118.991	-32.319	32.568	-8.753
Hour6	69.446	9.552	-29.764	11.661	118.669	-34.180	34.637	-9.553
Hour7	68.353	7.550	-26.634	10.598	118.888	-36.769	37.425	-10.331
Hour8	64.461	10.062	-20.515	8.174	119.487	-36.861	37.979	-11.692
Hour9	61.024	7.668	-13.681	5.691	120.359	-41.272	42.712	-12.909
Hour10	58.919	4.814	-8.972	3.903	121.069	-45.101	46.627	-13.301
Hour11	58.430	3.205	-7.858	3.458	121.278	-46.925	48.522	-13.534
Hour12	56.476	3.574	-4.898	2.293	121.836	-47.695	49.369	-13.807
Hour13	57.018	2.940	-4.984	2.477	121.599	-47.722	49.358	-13.662
Hour14	55.848	2.922	-2.742	1.644	121.905	-48.221	49.887	-13.758
Hour15	56.201	2.558	-3.198	1.825	121.834	-48.318	49.934	-13.603
Hour16	56.061	3.118	-3.098	1.740	121.824	-47.953	49.631	-13.772
Hour17	57.373	3.107	-5.428	2.715	121.368	-47.361	48.979	-13.591
Hour18	57.653	1.730	-5.254	2.772	121.402	-48.108	49.513	-12.988
Hour19	57.535	1.480	-4.659	2.645	121.392	-48.120	49.391	-12.577
Hour20	55.302	2.728	-0.681	1.117	121.969	-47.896	49.166	-12.586
Hour21	59.750	1.527	-8.725	4.270	120.778	-46.985	48.113	-12.139
Hour22	59.823	2.819	-8.922	4.302	120.722	-45.746	46.864	-12.081
Hour23	57.663	4.297	-4.643	2.777	121.326	-44.991	46.063	-11.943
Hour24	58.897	5.951	-7.444	3.726	121.049	-42.872	43.795	-11.436

Indiana Michigan Power Company - Michigan
Commercial Cooling Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.992	0.074	0.340	0.213	27.08%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.993	0.095	0.256	0.159	43.18%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.993	0.097	0.247	0.153	26.03%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.993	0.102	0.237	0.146	23.06%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.993	0.108	0.241	0.148	33.42%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.993	0.106	0.263	0.162	23.96%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.993	0.099	0.282	0.175	57.61%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.992	0.097	0.293	0.183	23.91%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.992	0.085	0.354	0.223	40.60%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.992	0.075	0.427	0.269	60.45%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.992	0.071	0.476	0.300	20.25%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.992	0.069	0.490	0.310	19.92%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.992	0.069	0.513	0.324	20.46%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.992	0.067	0.515	0.326	21.06%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.992	0.067	0.526	0.332	76.04%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.992	0.068	0.517	0.327	20.77%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.992	0.070	0.498	0.314	24.85%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.992	0.067	0.495	0.312	16.89%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.992	0.066	0.482	0.303	19.94%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.992	0.066	0.458	0.288	24.22%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.992	0.069	0.426	0.268	34.16%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.992	0.072	0.395	0.248	27.26%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.992	0.072	0.378	0.237	98.69%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.992	0.077	0.343	0.215	19.74%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Commercial Heating Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.705	-0.352	0.065	0.029	0.272	4.360	-0.118	1.448
Hour2	0.620	-0.328	0.056	0.013	0.237	3.224	-0.074	0.842
Hour3	0.601	-0.330	0.074	0.008	0.198	3.349	-0.055	0.600
Hour4	0.607	-0.341	0.091	-0.000	0.163	3.564	-0.046	0.510
Hour5	0.618	-0.345	0.093	-0.000	0.167	3.675	-0.051	0.570
Hour6	0.585	-0.313	0.115	0.002	0.090	4.296	-0.064	0.834
Hour7	0.560	-0.288	0.119	0.003	0.058	4.523	-0.080	1.096
Hour8	0.565	-0.265	0.123	0.014	0.060	5.174	-0.123	1.706
Hour9	0.617	-0.259	0.108	0.027	0.167	5.884	-0.176	2.373
Hour10	0.702	-0.285	0.075	0.029	0.313	6.078	-0.221	2.896
Hour11	0.739	-0.324	0.042	0.026	0.336	5.165	-0.187	2.385
Hour12	0.706	-0.331	0.027	0.037	0.270	3.843	-0.139	1.765
Hour13	0.620	-0.303	0.022	0.042	0.189	2.742	-0.107	1.372
Hour14	0.542	-0.276	0.022	0.038	0.151	2.110	-0.087	1.116
Hour15	0.470	-0.247	0.021	0.034	0.120	1.619	-0.070	0.900
Hour16	0.417	-0.226	0.020	0.032	0.103	1.315	-0.059	0.758
Hour17	0.394	-0.216	0.018	0.038	0.089	1.167	-0.053	0.682
Hour18	0.389	-0.212	0.017	0.035	0.085	1.178	-0.052	0.679
Hour19	0.425	-0.226	0.017	0.035	0.094	1.413	-0.060	0.777
Hour20	0.527	-0.272	0.022	0.035	0.140	2.095	-0.083	1.075
Hour21	0.600	-0.310	0.025	0.040	0.167	2.516	-0.095	1.216
Hour22	0.662	-0.339	0.031	0.034	0.202	2.947	-0.102	1.289
Hour23	0.703	-0.352	0.036	0.033	0.253	3.534	-0.109	1.336
Hour24	0.738	-0.368	0.046	0.027	0.285	3.945	-0.114	1.385

Indiana Michigan Power Company - Michigan
Commercial Heating Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.010	0.012	0.004	0.001	0.036	0.041	0.004	0.038
Hour2	0.008	0.010	0.004	0.001	0.030	0.034	0.003	0.032
Hour3	0.008	0.010	0.003	0.001	0.029	0.033	0.003	0.031
Hour4	0.008	0.010	0.004	0.001	0.031	0.035	0.003	0.033
Hour5	0.008	0.011	0.004	0.001	0.031	0.036	0.003	0.034
Hour6	0.009	0.012	0.004	0.001	0.035	0.040	0.004	0.038
Hour7	0.010	0.012	0.004	0.001	0.036	0.041	0.004	0.039
Hour8	0.011	0.014	0.005	0.001	0.040	0.045	0.004	0.043
Hour9	0.012	0.015	0.005	0.001	0.044	0.049	0.005	0.047
Hour10	0.012	0.015	0.005	0.001	0.044	0.050	0.005	0.047
Hour11	0.011	0.014	0.005	0.001	0.040	0.045	0.004	0.043
Hour12	0.009	0.012	0.004	0.001	0.036	0.041	0.004	0.038
Hour13	0.008	0.010	0.004	0.001	0.030	0.034	0.003	0.032
Hour14	0.007	0.009	0.003	0.001	0.025	0.029	0.003	0.027
Hour15	0.006	0.007	0.003	0.000	0.022	0.024	0.002	0.023
Hour16	0.005	0.006	0.002	0.000	0.019	0.021	0.002	0.020
Hour17	0.005	0.006	0.002	0.000	0.018	0.020	0.002	0.019
Hour18	0.005	0.006	0.002	0.000	0.018	0.020	0.002	0.019
Hour19	0.005	0.007	0.002	0.000	0.020	0.022	0.002	0.021
Hour20	0.007	0.008	0.003	0.001	0.025	0.028	0.003	0.026
Hour21	0.008	0.010	0.003	0.001	0.028	0.032	0.003	0.030
Hour22	0.008	0.011	0.004	0.001	0.032	0.036	0.003	0.034
Hour23	0.009	0.012	0.004	0.001	0.034	0.039	0.004	0.037
Hour24	0.010	0.012	0.004	0.001	0.036	0.041	0.004	0.039

Indiana Michigan Power Company - Michigan
Commercial Heating Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	HDD65WkEnd	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	74.215	-28.933	15.331	37.061	7.565	107.316	-30.646	37.700
Hour2	79.093	-32.671	15.958	19.898	8.009	96.243	-23.227	26.596
Hour3	77.325	-33.139	21.308	13.054	6.726	100.750	-17.363	19.103
Hour4	74.752	-32.812	25.112	-0.651	5.298	102.634	-14.073	15.528
Hour5	74.270	-32.379	24.906	-0.129	5.311	103.249	-15.060	16.942
Hour6	62.499	-26.158	27.445	2.242	2.535	107.413	-16.935	22.054
Hour7	58.007	-23.289	27.442	4.108	1.585	109.618	-20.519	28.086
Hour8	53.142	-19.487	25.693	16.325	1.496	113.751	-28.429	39.666
Hour9	53.435	-17.529	20.806	28.187	3.811	119.082	-37.478	50.803
Hour10	60.522	-19.191	14.493	30.221	7.136	122.506	-46.967	61.748
Hour11	69.887	-23.912	8.800	30.132	8.401	114.162	-43.414	55.757
Hour12	74.362	-27.250	6.255	47.514	7.530	94.633	-36.077	45.977
Hour13	78.060	-29.871	6.308	63.445	6.310	80.766	-33.145	42.750
Hour14	80.511	-32.039	7.272	68.290	5.932	73.353	-31.755	41.040
Hour15	82.465	-33.917	8.140	72.697	5.559	66.478	-30.200	39.101
Hour16	83.657	-35.419	8.988	78.741	5.474	61.693	-29.104	37.590
Hour17	82.861	-35.551	8.362	97.543	4.965	57.369	-27.336	35.480
Hour18	83.026	-35.343	8.209	90.038	4.786	58.775	-27.477	35.821
Hour19	82.242	-34.118	7.513	80.955	4.808	63.865	-28.419	37.151
Hour20	80.609	-32.496	7.395	64.807	5.644	74.909	-31.339	40.657
Hour21	79.928	-32.230	7.479	63.755	5.887	78.350	-31.077	40.048
Hour22	79.487	-31.806	8.279	49.896	6.420	82.680	-30.166	38.246
Hour23	77.349	-30.295	8.838	43.824	7.372	90.977	-29.453	36.374
Hour24	77.029	-30.001	10.694	34.192	7.875	96.270	-29.372	35.752

Indiana Michigan Power Company - Michigan
Commercial Heating Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1818	0.996	0.233	0.370	0.224	57.80%	0	0.000	0.00%	0.000
Hour2	1826	1818	0.996	0.341	0.305	0.187	36.71%	0	0.000	0.00%	0.000
Hour3	1826	1818	0.996	0.200	0.302	0.176	38.61%	0	0.000	0.00%	0.000
Hour4	1826	1818	0.997	0.132	0.316	0.178	72.53%	0	0.000	0.00%	0.000
Hour5	1826	1818	0.997	0.130	0.324	0.183	33.97%	0	0.000	0.00%	0.000
Hour6	1826	1818	0.996	0.088	0.364	0.202	38.11%	0	0.000	0.00%	0.000
Hour7	1826	1818	0.996	0.086	0.375	0.211	30.57%	0	0.000	0.00%	0.000
Hour8	1826	1818	0.996	0.086	0.414	0.237	24.96%	0	0.000	0.00%	0.000
Hour9	1826	1818	0.996	0.093	0.449	0.264	21.45%	0	0.000	0.00%	0.000
Hour10	1826	1818	0.996	0.131	0.451	0.275	48.55%	0	0.000	0.00%	0.000
Hour11	1826	1818	0.996	0.285	0.412	0.261	32.40%	0	0.000	0.00%	0.000
Hour12	1826	1818	0.996	0.479	0.369	0.236	273.57%	0	0.000	0.00%	0.000
Hour13	1826	1818	0.995	0.573	0.309	0.195	40.88%	0	0.000	0.00%	0.000
Hour14	1826	1818	0.995	0.628	0.262	0.164	36.60%	0	0.000	0.00%	0.000
Hour15	1826	1818	0.995	0.684	0.221	0.139	68.21%	0	0.000	0.00%	0.000
Hour16	1826	1818	0.995	0.730	0.194	0.121	39.85%	0	0.000	0.00%	0.000
Hour17	1826	1818	0.995	0.789	0.185	0.115	78.44%	0	0.000	0.00%	0.000
Hour18	1826	1818	0.995	0.772	0.182	0.113	55.83%	0	0.000	0.00%	0.000
Hour19	1826	1818	0.995	0.724	0.201	0.125	33.50%	0	0.000	0.00%	0.000
Hour20	1826	1818	0.995	0.640	0.254	0.160	31.38%	0	0.000	0.00%	0.000
Hour21	1826	1818	0.995	0.624	0.292	0.184	35.25%	0	0.000	0.00%	0.000
Hour22	1826	1818	0.995	0.580	0.324	0.205	36.94%	0	0.000	0.00%	0.000
Hour23	1826	1818	0.996	0.501	0.353	0.223	44.78%	0	0.000	0.00%	0.000
Hour24	1826	1818	0.996	0.419	0.373	0.234	48.81%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Coefficients

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	0.784	1.657	-1.582	-0.569	1.183	3.391	0.431	-4.747	126.049
Hour2	0.357	1.816	-1.476	-0.375	0.705	2.395	0.404	-2.873	138.881
Hour3	0.393	1.756	-1.428	-0.404	0.749	2.453	0.410	-2.950	139.835
Hour4	0.402	1.744	-1.417	-0.421	0.812	2.537	0.434	-3.107	139.683
Hour5	0.462	1.694	-1.413	-0.417	0.813	2.740	0.442	-3.444	143.344
Hour6	0.405	1.811	-1.455	-0.519	0.821	2.857	0.443	-3.489	147.698
Hour7	0.301	2.034	-1.540	-0.662	1.013	3.059	0.439	-3.721	156.880
Hour8	0.118	2.373	-1.681	-0.608	0.968	3.117	0.411	-3.747	171.555
Hour9	0.089	2.490	-1.772	-0.693	1.032	3.401	0.399	-4.090	190.751
Hour10	-0.146	2.722	-1.822	-0.670	1.016	3.489	0.349	-4.178	178.466
Hour11	-0.068	2.836	-1.984	-0.690	1.144	3.427	0.355	-4.143	163.267
Hour12	0.031	2.912	-2.140	-0.546	1.104	3.455	0.323	-4.343	153.734
Hour13	0.187	2.868	-2.255	-0.519	1.175	3.400	0.283	-4.348	149.464
Hour14	0.313	2.797	-2.327	-0.417	1.212	3.421	0.264	-4.574	143.184
Hour15	0.432	2.764	-2.394	-0.383	1.238	3.566	0.249	-4.777	137.941
Hour16	0.592	2.617	-2.397	-0.142	0.851	3.358	0.260	-4.363	133.602
Hour17	0.723	2.476	-2.380	0.020	0.701	3.394	0.278	-4.394	128.258
Hour18	0.974	2.189	-2.322	0.030	0.746	3.250	0.339	-4.230	127.705
Hour19	1.130	2.029	-2.263	0.006	0.798	3.246	0.402	-4.332	138.054
Hour20	0.967	2.114	-2.175	0.023	0.785	3.266	0.396	-4.422	140.102
Hour21	0.873	2.114	-2.091	-0.116	0.891	3.581	0.378	-4.820	137.859
Hour22	0.820	1.988	-1.926	-0.268	1.042	3.659	0.407	-4.929	137.449
Hour23	0.757	1.871	-1.771	-0.352	1.098	3.475	0.424	-4.813	127.648
Hour24	0.711	1.805	-1.675	-0.457	1.122	3.398	0.431	-4.704	123.549

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	114.045	1.091	-9.119	-21.605	-11.326	-45.458	-42.417	-40.773	-36.432	-39.255
Hour2	130.804	-3.322	-3.285	-15.835	-6.499	-40.840	-36.036	-33.699	-29.927	-33.391
Hour3	131.380	-2.359	-2.631	-15.243	-5.177	-39.041	-33.908	-31.448	-28.054	-31.840
Hour4	130.504	-1.407	-2.763	-15.738	-5.172	-39.273	-34.052	-31.847	-28.609	-32.199
Hour5	133.557	-0.200	-2.835	-16.094	-4.488	-38.915	-33.461	-31.151	-28.136	-31.794
Hour6	136.916	0.905	-3.639	-16.950	-4.620	-40.345	-34.442	-32.318	-29.557	-33.374
Hour7	143.628	1.550	-4.604	-18.085	-4.729	-42.833	-36.914	-35.002	-32.524	-36.668
Hour8	155.408	0.108	-5.636	-18.617	-4.529	-45.931	-40.815	-39.749	-36.860	-39.996
Hour9	171.014	-1.086	-5.890	-19.160	-7.214	-52.368	-46.361	-43.765	-42.403	-47.068
Hour10	155.700	-3.067	-6.571	-21.554	-11.508	-57.871	-51.680	-49.376	-47.052	-50.980
Hour11	140.634	-7.499	-8.424	-22.246	-14.320	-62.334	-57.665	-56.353	-52.341	-54.466
Hour12	132.518	-10.093	-9.013	-21.689	-16.435	-64.904	-61.415	-60.590	-56.277	-57.299
Hour13	128.887	-11.168	-8.698	-19.943	-16.168	-63.503	-60.744	-60.213	-55.056	-55.372
Hour14	122.564	-10.034	-8.732	-19.813	-17.687	-63.682	-61.777	-61.601	-55.874	-55.561
Hour15	115.313	-8.724	-9.092	-19.979	-19.646	-64.652	-63.572	-64.032	-57.543	-57.109
Hour16	110.057	-7.956	-9.495	-20.002	-20.708	-65.003	-64.591	-65.428	-58.177	-57.549
Hour17	104.148	-6.833	-10.430	-21.294	-22.752	-66.243	-66.687	-67.364	-59.646	-58.831
Hour18	104.849	-6.642	-12.304	-24.285	-25.019	-66.752	-67.293	-67.028	-59.294	-58.816
Hour19	119.020	-5.748	-14.723	-30.501	-29.627	-68.146	-67.429	-66.121	-59.074	-59.232
Hour20	122.765	-5.302	-10.780	-23.800	-23.275	-61.383	-59.816	-58.028	-50.990	-51.982
Hour21	121.512	-4.977	-10.301	-21.725	-17.155	-58.906	-57.843	-55.686	-48.874	-50.513
Hour22	121.558	-3.574	-10.084	-21.978	-14.888	-55.317	-56.397	-55.135	-49.557	-49.695
Hour23	113.382	-1.992	-10.098	-22.669	-15.166	-51.829	-50.580	-49.673	-44.053	-45.146
Hour24	110.883	-0.465	-9.567	-22.252	-13.415	-48.915	-46.945	-45.149	-39.982	-42.661

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Coefficients

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	-45.698	-4.885	-3.299	0.000	-4.073	-2.731	-2.221	8.070
Hour2	-41.939	-6.481	-3.063	0.000	-3.011	-2.148	-3.854	8.825
Hour3	-40.447	-6.405	-2.566	0.000	-2.900	-2.329	-4.182	9.007
Hour4	-40.560	-7.033	-2.714	0.000	-2.744	-2.616	-4.183	8.944
Hour5	-40.507	-6.287	-2.638	0.000	-2.773	-2.705	-4.434	8.627
Hour6	-42.046	-6.976	-2.804	0.000	-2.939	-3.191	-4.599	8.255
Hour7	-45.190	-7.548	-2.431	0.000	-3.118	-3.269	-4.856	8.359
Hour8	-48.379	-6.503	-0.985	0.000	-3.276	-3.848	-5.398	8.868
Hour9	-54.788	-8.258	-2.453	0.000	-4.121	-4.187	-6.553	13.723
Hour10	-59.251	-7.688	-2.172	0.000	-5.111	-3.889	-4.813	12.153
Hour11	-61.110	-6.703	-2.083	0.000	-5.658	-2.639	-2.896	11.263
Hour12	-62.637	-4.969	-1.695	0.000	-5.740	-1.192	-1.750	11.919
Hour13	-60.317	-2.165	-0.967	0.000	-5.880	0.012	-1.315	11.695
Hour14	-59.754	-1.267	-1.364	0.000	-5.874	0.665	-0.736	11.478
Hour15	-60.030	-0.964	-1.417	0.000	-5.941	1.186	-0.214	12.260
Hour16	-59.894	-0.440	-1.660	0.000	-5.810	1.432	0.175	12.454
Hour17	-60.625	-1.234	-2.238	0.000	-5.562	1.454	0.680	12.115
Hour18	-61.029	-3.558	-3.643	0.000	-5.537	1.441	0.715	11.129
Hour19	-63.021	-9.399	-3.987	0.000	-5.394	1.138	-0.152	8.808
Hour20	-57.014	-0.973	-1.284	0.000	-5.208	0.367	-0.713	3.910
Hour21	-54.669	4.074	-0.893	0.000	-4.889	-0.240	-0.918	4.672
Hour22	-52.645	-1.015	-1.444	0.000	-4.610	-0.875	-1.423	9.593
Hour23	-50.970	-3.064	-2.383	0.000	-4.486	-1.611	-1.116	9.164
Hour24	-48.469	-4.078	-3.093	0.000	-4.128	-2.280	-1.378	8.211

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Standard Errors

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	0.064	0.087	0.036	0.067	0.099	0.101	0.009	0.159	2.533
Hour2	0.065	0.088	0.037	0.068	0.101	0.103	0.009	0.162	2.576
Hour3	0.062	0.085	0.035	0.066	0.097	0.099	0.009	0.156	2.484
Hour4	0.063	0.085	0.035	0.066	0.097	0.099	0.009	0.157	2.488
Hour5	0.062	0.085	0.035	0.066	0.097	0.099	0.009	0.156	2.485
Hour6	0.064	0.087	0.036	0.067	0.100	0.102	0.009	0.160	2.550
Hour7	0.067	0.092	0.038	0.071	0.105	0.107	0.010	0.169	2.686
Hour8	0.072	0.098	0.041	0.076	0.112	0.114	0.010	0.180	2.856
Hour9	0.075	0.102	0.042	0.079	0.117	0.119	0.011	0.187	2.980
Hour10	0.078	0.107	0.044	0.083	0.122	0.125	0.011	0.196	3.120
Hour11	0.081	0.110	0.046	0.085	0.126	0.128	0.012	0.202	3.209
Hour12	0.081	0.110	0.046	0.085	0.126	0.128	0.012	0.202	3.206
Hour13	0.079	0.108	0.045	0.084	0.124	0.126	0.011	0.199	3.160
Hour14	0.078	0.106	0.044	0.082	0.122	0.124	0.011	0.195	3.106
Hour15	0.078	0.106	0.044	0.082	0.121	0.123	0.011	0.194	3.090
Hour16	0.079	0.108	0.045	0.083	0.123	0.126	0.011	0.198	3.149
Hour17	0.079	0.108	0.045	0.084	0.124	0.126	0.011	0.199	3.158
Hour18	0.080	0.108	0.045	0.084	0.124	0.127	0.011	0.199	3.166
Hour19	0.079	0.107	0.045	0.083	0.122	0.125	0.011	0.197	3.129
Hour20	0.083	0.113	0.047	0.087	0.129	0.131	0.012	0.207	3.285
Hour21	0.079	0.107	0.045	0.083	0.123	0.125	0.011	0.197	3.133
Hour22	0.073	0.099	0.041	0.076	0.113	0.115	0.010	0.182	2.886
Hour23	0.069	0.095	0.039	0.073	0.108	0.110	0.010	0.174	2.762
Hour24	0.067	0.091	0.038	0.070	0.104	0.106	0.010	0.167	2.651

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	2.548	0.450	0.286	0.426	0.653	0.847	1.021	1.083	1.031	0.875
Hour2	2.592	0.458	0.291	0.433	0.664	0.862	1.038	1.102	1.049	0.890
Hour3	2.499	0.442	0.280	0.418	0.640	0.831	1.001	1.063	1.011	0.858
Hour4	2.503	0.442	0.281	0.418	0.641	0.832	1.003	1.064	1.013	0.860
Hour5	2.499	0.442	0.280	0.418	0.640	0.831	1.001	1.063	1.011	0.858
Hour6	2.565	0.453	0.288	0.429	0.657	0.853	1.028	1.091	1.038	0.881
Hour7	2.702	0.477	0.303	0.451	0.692	0.898	1.082	1.149	1.093	0.928
Hour8	2.873	0.508	0.322	0.480	0.736	0.955	1.151	1.222	1.163	0.987
Hour9	2.998	0.530	0.336	0.501	0.768	0.997	1.201	1.275	1.213	1.030
Hour10	3.139	0.555	0.352	0.524	0.804	1.044	1.257	1.334	1.270	1.078
Hour11	3.228	0.571	0.362	0.539	0.827	1.073	1.293	1.372	1.306	1.109
Hour12	3.225	0.570	0.362	0.539	0.826	1.072	1.292	1.371	1.305	1.108
Hour13	3.179	0.562	0.357	0.531	0.815	1.057	1.274	1.352	1.287	1.092
Hour14	3.124	0.552	0.351	0.522	0.800	1.039	1.252	1.328	1.264	1.073
Hour15	3.108	0.549	0.349	0.519	0.796	1.033	1.245	1.322	1.258	1.067
Hour16	3.167	0.560	0.355	0.529	0.812	1.053	1.269	1.347	1.282	1.088
Hour17	3.177	0.561	0.356	0.531	0.814	1.056	1.272	1.351	1.285	1.091
Hour18	3.185	0.563	0.357	0.532	0.816	1.059	1.276	1.354	1.289	1.094
Hour19	3.147	0.556	0.353	0.526	0.806	1.046	1.261	1.338	1.274	1.081
Hour20	3.305	0.584	0.371	0.552	0.847	1.099	1.324	1.405	1.337	1.135
Hour21	3.152	0.557	0.354	0.527	0.808	1.048	1.263	1.340	1.276	1.083
Hour22	2.903	0.513	0.326	0.485	0.744	0.965	1.163	1.234	1.175	0.997
Hour23	2.779	0.491	0.312	0.464	0.712	0.924	1.113	1.181	1.124	0.954
Hour24	2.667	0.471	0.299	0.446	0.683	0.887	1.068	1.134	1.079	0.916

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Standard Errors

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	0.736	0.583	0.303	0.000	0.482	0.488	0.242	0.377
Hour2	0.748	0.593	0.308	0.000	0.490	0.496	0.246	0.383
Hour3	0.722	0.571	0.297	0.000	0.472	0.478	0.237	0.370
Hour4	0.723	0.572	0.297	0.000	0.473	0.479	0.237	0.370
Hour5	0.722	0.572	0.297	0.000	0.473	0.479	0.237	0.370
Hour6	0.741	0.587	0.305	0.000	0.485	0.491	0.243	0.379
Hour7	0.780	0.618	0.321	0.000	0.511	0.517	0.256	0.400
Hour8	0.830	0.657	0.341	0.000	0.543	0.550	0.273	0.425
Hour9	0.866	0.686	0.356	0.000	0.567	0.574	0.284	0.443
Hour10	0.906	0.718	0.373	0.000	0.593	0.601	0.298	0.464
Hour11	0.932	0.738	0.383	0.000	0.610	0.618	0.306	0.477
Hour12	0.931	0.738	0.383	0.000	0.610	0.617	0.306	0.477
Hour13	0.918	0.727	0.377	0.000	0.601	0.609	0.302	0.470
Hour14	0.902	0.714	0.371	0.000	0.591	0.598	0.296	0.462
Hour15	0.898	0.711	0.369	0.000	0.588	0.595	0.295	0.460
Hour16	0.915	0.724	0.376	0.000	0.599	0.606	0.300	0.468
Hour17	0.917	0.726	0.377	0.000	0.601	0.608	0.301	0.470
Hour18	0.920	0.728	0.378	0.000	0.602	0.610	0.302	0.471
Hour19	0.909	0.720	0.374	0.000	0.595	0.603	0.299	0.465
Hour20	0.954	0.756	0.392	0.000	0.625	0.633	0.313	0.489
Hour21	0.910	0.721	0.374	0.000	0.596	0.603	0.299	0.466
Hour22	0.838	0.664	0.345	0.000	0.549	0.556	0.275	0.429
Hour23	0.802	0.635	0.330	0.000	0.525	0.532	0.264	0.411
Hour24	0.770	0.610	0.317	0.000	0.504	0.511	0.253	0.394

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model t-Statistics

Variable	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd	WkDay
Hour1	12.312	19.087	-43.856	-8.498	11.931	33.510	47.342	-29.795	49.765
Hour2	5.512	20.577	-40.233	-5.509	6.991	23.268	43.657	-17.730	53.909
Hour3	6.288	20.635	-40.357	-6.152	7.700	24.717	45.924	-18.877	56.290
Hour4	6.425	20.451	-39.998	-6.400	8.333	25.518	48.510	-19.848	56.133
Hour5	7.401	19.897	-39.944	-6.339	8.358	27.607	49.468	-22.037	57.694
Hour6	6.321	20.731	-40.068	-7.700	8.229	28.044	48.333	-21.749	57.922
Hour7	4.464	22.099	-40.259	-9.316	9.638	28.507	45.536	-22.025	58.414
Hour8	1.639	24.243	-41.327	-8.052	8.654	27.318	40.061	-20.853	60.066
Hour9	1.183	24.385	-41.767	-8.786	8.848	28.564	37.273	-21.821	64.010
Hour10	-1.865	25.465	-41.018	-8.114	8.319	27.991	31.156	-21.286	57.200
Hour11	-0.840	25.789	-43.424	-8.132	9.106	26.732	30.806	-20.525	50.880
Hour12	0.389	26.504	-46.874	-6.441	8.798	26.976	28.000	-21.536	47.949
Hour13	2.353	26.486	-50.103	-6.203	9.499	26.930	24.889	-21.869	47.292
Hour14	4.016	26.282	-52.615	-5.078	9.968	27.572	23.621	-23.414	46.105
Hour15	5.567	26.104	-54.401	-4.686	10.236	28.890	22.413	-24.578	44.642
Hour16	7.484	24.257	-53.453	-1.710	6.903	26.693	22.985	-22.031	42.432
Hour17	9.116	22.888	-52.921	0.239	5.671	26.906	24.496	-22.123	40.619
Hour18	12.234	20.177	-51.491	0.357	6.020	25.693	29.833	-21.239	40.330
Hour19	14.378	18.927	-50.806	0.074	6.519	25.968	35.759	-22.010	44.128
Hour20	11.709	18.786	-46.493	0.269	6.106	24.884	33.527	-21.402	42.650
Hour21	11.090	19.693	-46.864	-1.394	7.266	28.606	33.549	-24.454	43.995
Hour22	11.305	20.102	-46.859	-3.515	9.225	31.731	39.235	-27.150	47.626
Hour23	10.912	19.768	-45.023	-4.824	10.150	31.491	42.707	-27.703	46.215
Hour24	10.666	19.865	-44.367	-6.516	10.810	32.084	45.228	-28.205	46.603

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	January	February	March	April	May	June	July	August
Hour1	44.757	2.422	-31.893	-50.743	-17.349	-53.662	-41.556	-37.636	-35.334	-44.861
Hour2	50.471	-7.253	-11.294	-36.565	-9.788	-47.399	-34.711	-30.584	-28.536	-37.517
Hour3	52.571	-5.342	-9.381	-36.503	-8.086	-46.990	-33.871	-29.598	-27.741	-37.100
Hour4	52.132	-3.181	-9.836	-37.624	-8.063	-47.189	-33.957	-29.922	-28.242	-37.454
Hour5	53.434	-0.454	-10.107	-38.534	-7.009	-46.831	-33.420	-29.314	-27.819	-37.041
Hour6	53.373	1.997	-12.643	-39.544	-7.030	-47.306	-33.517	-29.632	-28.474	-37.884
Hour7	53.161	3.246	-15.186	-40.060	-6.832	-47.686	-34.108	-30.471	-29.749	-39.520
Hour8	54.088	0.213	-17.481	-38.777	-6.153	-48.083	-35.461	-32.539	-31.703	-40.535
Hour9	57.045	-2.051	-17.508	-38.248	-9.392	-52.543	-38.605	-34.337	-34.954	-45.719
Hour10	49.606	-5.530	-18.655	-41.097	-14.310	-55.458	-41.103	-37.000	-37.045	-47.296
Hour11	43.565	-13.145	-23.254	-41.242	-17.315	-58.082	-44.594	-41.060	-40.069	-49.131
Hour12	41.086	-17.707	-24.900	-40.243	-19.889	-60.527	-47.533	-44.184	-43.118	-51.730
Hour13	40.538	-19.875	-24.380	-37.538	-19.848	-60.077	-47.694	-44.544	-42.793	-50.713
Hour14	39.230	-18.173	-24.907	-37.952	-22.097	-61.311	-49.362	-46.376	-44.196	-51.785
Hour15	37.097	-15.881	-26.065	-38.465	-24.669	-62.560	-51.055	-48.451	-45.747	-53.499
Hour16	34.746	-14.213	-26.712	-37.791	-25.518	-61.728	-50.906	-48.584	-45.389	-52.906
Hour17	32.786	-12.172	-29.259	-40.118	-27.956	-62.726	-52.408	-49.879	-46.403	-53.930
Hour18	32.915	-11.798	-34.420	-45.624	-30.656	-63.031	-52.736	-49.492	-45.999	-53.766
Hour19	37.817	-10.335	-41.688	-57.999	-36.743	-65.129	-53.484	-49.414	-46.385	-54.803
Hour20	37.150	-9.078	-29.070	-43.102	-27.491	-55.872	-45.186	-41.302	-38.131	-45.806
Hour21	38.547	-8.933	-29.119	-41.245	-21.242	-56.208	-45.807	-41.550	-38.315	-46.661
Hour22	41.868	-6.966	-30.950	-45.303	-20.016	-57.309	-48.492	-44.667	-42.182	-49.842
Hour23	40.805	-4.056	-32.384	-48.824	-21.304	-56.106	-45.442	-42.047	-39.180	-47.312
Hour24	41.576	-0.987	-31.966	-49.931	-19.633	-55.167	-43.941	-39.817	-37.047	-46.579

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model t-Statistics

Variable	September	October	November	December	SummerFuzzy	WinterFuzzy	HLight	DST
Hour1	-62.108	-8.384	-10.906	0.000	-8.454	-5.598	-9.190	21.418
Hour2	-56.041	-10.936	-9.955	0.000	-6.146	-4.329	-15.679	23.026
Hour3	-56.049	-11.208	-8.648	0.000	-6.138	-4.868	-17.642	24.372
Hour4	-56.109	-12.286	-9.131	0.000	-5.799	-5.458	-17.615	24.161
Hour5	-56.123	-11.000	-8.888	0.000	-5.869	-5.654	-18.704	23.340
Hour6	-56.761	-11.893	-9.206	0.000	-6.061	-6.497	-18.902	21.760
Hour7	-57.923	-12.217	-7.579	0.000	-6.104	-6.321	-18.948	20.921
Hour8	-58.310	-9.898	-2.889	0.000	-6.032	-6.996	-19.807	20.872
Hour9	-63.290	-12.046	-6.891	0.000	-7.272	-7.295	-23.043	30.955
Hour10	-65.373	-10.712	-5.830	0.000	-8.614	-6.472	-16.165	26.183
Hour11	-65.558	-9.081	-5.436	0.000	-9.271	-4.270	-9.457	23.594
Hour12	-67.252	-6.738	-4.426	0.000	-9.413	-1.931	-5.719	24.990
Hour13	-65.698	-2.978	-2.560	0.000	-9.783	0.020	-4.362	24.874
Hour14	-66.234	-1.773	-3.677	0.000	-9.945	1.112	-2.484	24.843
Hour15	-66.879	-1.357	-3.839	0.000	-10.110	1.992	-0.726	26.672
Hour16	-65.484	-0.607	-4.415	0.000	-9.703	2.361	0.583	26.588
Hour17	-66.093	-1.698	-5.933	0.000	-9.261	2.391	2.257	25.791
Hour18	-66.347	-4.884	-9.632	0.000	-9.194	2.363	2.365	23.625
Hour19	-69.344	-13.061	-10.669	0.000	-9.066	1.889	-0.509	18.925
Hour20	-59.749	-1.287	-3.273	0.000	-8.337	0.580	-2.275	8.001
Hour21	-60.058	5.651	-2.387	0.000	-8.205	-0.398	-3.070	10.022
Hour22	-62.795	-1.529	-4.190	0.000	-8.399	-1.574	-5.168	22.344
Hour23	-63.526	-4.823	-7.224	0.000	-8.540	-3.028	-4.234	22.302
Hour24	-62.936	-6.686	-9.768	0.000	-8.187	-4.465	-5.448	20.819

Indiana Michigan Power Company - Michigan
Commercial Other Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1826	1799	0.989	0.059	2.344	1.971	2.64%	0	0.000	0.00%	0.000
Hour2	1826	1799	0.989	0.358	2.384	2.007	2.78%	0	0.000	0.00%	0.000
Hour3	1826	1799	0.990	0.265	2.299	1.934	2.71%	0	0.000	0.00%	0.000
Hour4	1826	1799	0.990	0.259	2.303	1.932	2.72%	0	0.000	0.00%	0.000
Hour5	1826	1799	0.990	0.206	2.299	1.929	2.69%	0	0.000	0.00%	0.000
Hour6	1826	1799	0.991	0.169	2.360	1.968	2.71%	0	0.000	0.00%	0.000
Hour7	1826	1799	0.991	0.175	2.485	2.070	2.72%	0	0.000	0.00%	0.000
Hour8	1826	1799	0.992	0.130	2.643	2.206	2.71%	0	0.000	0.00%	0.000
Hour9	1826	1799	0.992	0.097	2.757	2.285	2.72%	0	0.000	0.00%	0.000
Hour10	1826	1799	0.991	0.157	2.887	2.418	2.80%	0	0.000	0.00%	0.000
Hour11	1826	1799	0.990	0.209	2.969	2.495	2.76%	0	0.000	0.00%	0.000
Hour12	1826	1799	0.990	0.201	2.967	2.499	2.67%	0	0.000	0.00%	0.000
Hour13	1826	1799	0.989	0.176	2.924	2.470	2.61%	0	0.000	0.00%	0.000
Hour14	1826	1799	0.989	0.183	2.874	2.431	2.57%	0	0.000	0.00%	0.000
Hour15	1826	1799	0.989	0.214	2.859	2.417	2.57%	0	0.000	0.00%	0.000
Hour16	1826	1799	0.988	0.335	2.913	2.453	2.62%	0	0.000	0.00%	0.000
Hour17	1826	1799	0.987	0.395	2.922	2.454	2.63%	0	0.000	0.00%	0.000
Hour18	1826	1799	0.987	0.442	2.930	2.454	2.66%	0	0.000	0.00%	0.000
Hour19	1826	1799	0.988	0.423	2.895	2.426	2.68%	0	0.000	0.00%	0.000
Hour20	1826	1799	0.988	0.565	3.040	2.524	2.83%	0	0.000	0.00%	0.000
Hour21	1826	1799	0.989	0.423	2.899	2.426	2.75%	0	0.000	0.00%	0.000
Hour22	1826	1799	0.989	0.157	2.671	2.257	2.57%	0	0.000	0.00%	0.000
Hour23	1826	1799	0.988	0.067	2.556	2.169	2.55%	0	0.000	0.00%	0.000
Hour24	1826	1799	0.988	0.083	2.453	2.067	2.59%	0	0.000	0.00%	0.000

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Coefficients

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	206.561	-3.257	7.961	-3.936	-1.085	0.643	5.089	0.641	-6.150
Hour2	203.674	-3.153	7.787	-3.871	-0.919	0.424	4.830	0.649	-5.785
Hour3	204.011	-3.168	7.778	-3.856	-0.970	0.435	4.977	0.662	-5.937
Hour4	205.029	-3.131	7.725	-3.821	-1.001	0.534	4.844	0.659	-5.813
Hour5	203.321	-3.242	7.893	-3.871	-1.038	0.585	4.940	0.650	-5.986
Hour6	204.742	-3.319	7.997	-3.901	-0.989	0.531	5.034	0.636	-6.143
Hour7	213.555	-3.697	8.443	-3.978	-0.899	0.422	5.135	0.564	-6.230
Hour8	221.974	-3.915	8.745	-4.045	-0.856	0.364	5.389	0.497	-6.564
Hour9	224.846	-3.956	8.931	-4.170	-0.914	0.445	5.488	0.466	-6.644
Hour10	227.987	-4.113	9.158	-4.261	-0.915	0.495	5.429	0.461	-6.627
Hour11	229.745	-4.014	9.037	-4.238	-0.867	0.478	5.355	0.454	-6.517
Hour12	230.849	-3.857	8.929	-4.289	-0.924	0.517	5.367	0.493	-6.496
Hour13	229.432	-3.703	8.764	-4.278	-0.926	0.478	5.496	0.510	-6.580
Hour14	229.574	-3.859	8.965	-4.328	-0.858	0.361	5.363	0.488	-6.347
Hour15	225.276	-3.740	8.715	-4.214	-0.773	0.284	5.209	0.520	-6.136
Hour16	223.404	-3.643	8.621	-4.225	-0.818	0.343	5.123	0.551	-6.016
Hour17	217.385	-3.384	8.314	-4.189	-0.827	0.351	5.009	0.592	-5.889
Hour18	214.245	-3.143	7.976	-4.054	-0.715	0.199	4.761	0.613	-5.509
Hour19	214.978	-3.131	7.938	-4.017	-0.720	0.235	4.480	0.583	-5.232
Hour20	212.467	-3.142	7.955	-4.012	-0.653	0.132	4.435	0.567	-5.108
Hour21	210.303	-3.110	7.866	-3.953	-0.660	0.080	4.731	0.573	-5.515
Hour22	209.609	-3.065	7.687	-3.838	-0.528	-0.075	4.848	0.580	-5.625
Hour23	206.135	-2.942	7.458	-3.739	-0.447	-0.150	4.814	0.595	-5.518
Hour24	203.694	-2.794	7.241	-3.669	-0.456	-0.096	4.793	0.615	-5.415

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May
Hour1	-36.921	-24.734	-9.569	2.217	-25.009	-20.311	-29.711	-133.984	-134.677
Hour2	-35.736	-25.776	-8.068	2.437	-25.540	-21.255	-30.471	-133.884	-134.832
Hour3	-35.504	-26.545	-6.672	2.700	-25.547	-21.667	-30.954	-133.515	-134.270
Hour4	-35.297	-26.794	-5.356	2.852	-25.610	-21.678	-30.720	-132.174	-132.194
Hour5	-36.114	-27.613	-3.915	3.179	-25.326	-21.401	-31.567	-133.769	-133.983
Hour6	-39.576	-29.989	-1.696	3.852	-24.713	-21.246	-32.025	-135.821	-136.031
Hour7	-45.948	-31.991	0.234	4.631	-24.461	-20.955	-32.192	-139.164	-139.123
Hour8	-51.585	-34.843	2.240	5.218	-23.875	-21.060	-33.997	-144.018	-144.074
Hour9	-54.699	-36.172	3.490	5.565	-23.848	-21.862	-34.052	-145.577	-145.705
Hour10	-54.893	-37.176	4.149	5.423	-23.706	-21.613	-33.339	-144.635	-144.383
Hour11	-55.970	-37.051	4.572	5.363	-24.404	-21.946	-33.844	-145.563	-145.497
Hour12	-56.690	-35.547	5.116	5.247	-24.271	-21.574	-33.075	-144.753	-144.573
Hour13	-57.380	-35.712	6.154	5.790	-24.161	-21.208	-33.448	-145.271	-145.507
Hour14	-58.180	-35.427	6.902	6.186	-23.929	-21.606	-32.790	-145.190	-145.544
Hour15	-56.546	-34.586	7.288	6.112	-23.802	-21.551	-31.904	-143.797	-144.018
Hour16	-52.083	-33.973	8.003	7.015	-24.621	-21.026	-31.718	-141.708	-141.418
Hour17	-47.806	-33.801	7.414	6.992	-25.102	-21.588	-32.209	-140.751	-141.005
Hour18	-44.626	-31.607	6.587	6.166	-25.764	-21.384	-32.912	-137.879	-137.692
Hour19	-40.931	-30.480	6.469	6.089	-24.867	-20.020	-31.055	-134.371	-133.660
Hour20	-37.853	-30.714	7.514	6.790	-24.692	-19.697	-30.464	-134.015	-133.357
Hour21	-35.687	-31.141	9.866	9.181	-24.246	-19.308	-28.957	-133.103	-132.966
Hour22	-32.233	-31.422	10.891	10.189	-23.727	-18.659	-27.995	-131.619	-131.164
Hour23	-29.470	-31.880	12.520	11.911	-23.012	-18.142	-27.876	-131.927	-131.736
Hour24	-25.411	-32.642	14.784	14.070	-22.549	-17.860	-27.409	-131.004	-130.795

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Coefficients

Variable	June	July	August	September	October	November	December	HLight	DST
Hour1	-140.796	-145.245	-139.980	-134.991	10.707	16.289	0.000	1.016	16.725
Hour2	-141.029	-145.616	-140.207	-135.116	9.738	16.014	0.000	1.173	16.126
Hour3	-140.231	-144.780	-139.818	-134.635	9.304	15.911	0.000	0.986	16.769
Hour4	-137.860	-142.671	-137.826	-133.131	9.641	16.078	0.000	0.737	16.948
Hour5	-139.780	-144.452	-139.379	-134.351	9.713	16.360	0.000	0.982	17.390
Hour6	-142.044	-146.544	-141.034	-135.578	11.160	17.753	0.000	1.242	17.498
Hour7	-145.807	-149.858	-144.035	-138.422	12.175	18.675	0.000	1.226	17.448
Hour8	-151.149	-155.155	-149.487	-143.383	11.360	18.378	0.000	1.226	19.221
Hour9	-153.385	-157.267	-151.551	-145.218	13.162	19.147	0.000	1.445	18.517
Hour10	-152.017	-155.997	-150.358	-144.272	12.863	19.473	0.000	1.207	18.697
Hour11	-152.748	-156.611	-150.961	-144.783	12.800	19.027	0.000	1.242	18.828
Hour12	-151.969	-155.488	-149.982	-144.165	13.800	18.721	0.000	1.109	19.051
Hour13	-153.006	-156.395	-150.790	-144.796	14.657	19.925	0.000	1.190	19.432
Hour14	-152.886	-155.994	-150.414	-144.395	15.644	20.201	0.000	1.225	19.162
Hour15	-151.289	-154.145	-148.703	-142.700	14.701	20.168	0.000	1.235	19.589
Hour16	-148.577	-151.621	-146.928	-141.256	14.497	19.788	0.000	0.827	20.422
Hour17	-148.231	-151.026	-146.604	-140.674	13.537	18.418	0.000	0.979	20.030
Hour18	-144.402	-147.689	-143.851	-138.483	12.172	18.749	0.000	0.697	20.158
Hour19	-140.189	-143.866	-140.246	-135.660	11.832	18.265	0.000	0.257	18.966
Hour20	-139.932	-143.990	-140.173	-135.576	12.195	18.400	0.000	0.278	18.935
Hour21	-139.846	-143.560	-139.644	-135.294	11.829	18.216	0.000	0.146	19.239
Hour22	-138.058	-142.247	-138.276	-133.803	11.762	18.693	0.000	0.038	18.529
Hour23	-138.349	-142.616	-138.787	-134.085	11.718	18.786	0.000	0.136	18.512
Hour24	-137.120	-141.767	-137.786	-133.578	12.007	18.016	0.000	0.003	18.077

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Standard Errors

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	159.202	4.731	6.579	2.793	5.399	8.115	8.116	0.689	13.235
Hour2	158.274	4.703	6.540	2.777	5.367	8.068	8.068	0.685	13.158
Hour3	157.188	4.671	6.496	2.758	5.330	8.013	8.013	0.680	13.068
Hour4	156.648	4.655	6.473	2.748	5.312	7.985	7.985	0.678	13.023
Hour5	157.556	4.682	6.511	2.764	5.343	8.031	8.032	0.682	13.098
Hour6	159.715	4.746	6.600	2.802	5.416	8.141	8.142	0.691	13.278
Hour7	164.460	4.887	6.796	2.885	5.577	8.383	8.384	0.712	13.672
Hour8	168.250	5.000	6.953	2.952	5.705	8.577	8.577	0.728	13.987
Hour9	170.296	5.061	7.037	2.988	5.775	8.681	8.681	0.737	14.157
Hour10	170.474	5.066	7.045	2.991	5.781	8.690	8.690	0.738	14.172
Hour11	170.877	5.078	7.061	2.998	5.795	8.710	8.711	0.739	14.206
Hour12	170.599	5.070	7.050	2.993	5.785	8.696	8.697	0.738	14.182
Hour13	170.955	5.080	7.064	2.999	5.797	8.714	8.715	0.740	14.212
Hour14	171.364	5.092	7.081	3.006	5.811	8.735	8.736	0.742	14.246
Hour15	169.154	5.027	6.990	2.968	5.736	8.623	8.623	0.732	14.062
Hour16	167.245	4.970	6.911	2.934	5.671	8.525	8.526	0.724	13.904
Hour17	164.777	4.897	6.809	2.891	5.588	8.399	8.400	0.713	13.698
Hour18	161.642	4.803	6.680	2.836	5.481	8.240	8.240	0.700	13.438
Hour19	159.802	4.749	6.604	2.803	5.419	8.146	8.146	0.692	13.285
Hour20	159.483	4.739	6.590	2.798	5.408	8.130	8.130	0.690	13.258
Hour21	159.575	4.742	6.594	2.799	5.411	8.134	8.135	0.691	13.266
Hour22	159.107	4.728	6.575	2.791	5.395	8.110	8.111	0.689	13.227
Hour23	159.490	4.739	6.591	2.798	5.408	8.130	8.130	0.690	13.259
Hour24	159.589	4.742	6.595	2.800	5.412	8.135	8.135	0.691	13.267

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	22.382	36.493	15.972	12.985	21.439	30.073	43.825	61.198	75.778	83.891
Hour2	22.252	36.280	15.879	12.909	21.314	29.898	43.569	60.842	75.336	83.402
Hour3	22.099	36.031	15.770	12.821	21.168	29.693	43.270	60.424	74.820	82.830
Hour4	22.023	35.907	15.716	12.777	21.095	29.591	43.121	60.216	74.562	82.545
Hour5	22.151	36.115	15.807	12.851	21.218	29.762	43.371	60.566	74.995	83.024
Hour6	22.454	36.610	16.023	13.027	21.508	30.170	43.966	61.395	76.022	84.161
Hour7	23.121	37.698	16.499	13.414	22.147	31.067	45.272	63.220	78.281	86.662
Hour8	23.654	38.567	16.880	13.723	22.658	31.783	46.315	64.677	80.085	88.659
Hour9	23.942	39.036	17.085	13.890	22.933	32.169	46.878	65.463	81.059	89.737
Hour10	23.967	39.077	17.103	13.904	22.957	32.203	46.928	65.532	81.144	89.831
Hour11	24.024	39.169	17.143	13.937	23.011	32.279	47.038	65.686	81.335	90.043
Hour12	23.985	39.105	17.115	13.915	22.974	32.226	46.962	65.580	81.203	89.897
Hour13	24.035	39.187	17.151	13.944	23.022	32.294	47.060	65.717	81.373	90.085
Hour14	24.092	39.281	17.192	13.977	23.077	32.371	47.173	65.874	81.567	90.300
Hour15	23.781	38.774	16.970	13.797	22.779	31.953	46.564	65.024	80.515	89.136
Hour16	23.513	38.336	16.779	13.641	22.522	31.593	46.039	64.290	79.607	88.129
Hour17	23.166	37.771	16.531	13.440	22.190	31.127	45.359	63.342	78.432	86.829
Hour18	22.725	37.052	16.217	13.184	21.768	30.534	44.496	62.136	76.940	85.177
Hour19	22.467	36.630	16.032	13.034	21.520	30.187	43.990	61.429	76.064	84.207
Hour20	22.422	36.557	16.000	13.008	21.477	30.126	43.902	61.307	75.912	84.039
Hour21	22.435	36.578	16.009	13.015	21.489	30.144	43.927	61.342	75.956	84.088
Hour22	22.369	36.471	15.962	12.977	21.426	30.055	43.798	61.162	75.733	83.841
Hour23	22.423	36.559	16.001	13.008	21.478	30.128	43.904	61.309	75.915	84.043
Hour24	22.437	36.581	16.011	13.016	21.491	30.146	43.931	61.347	75.962	84.095

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Standard Errors

Variable	July	August	September	October	November	December	HLight	DST
Hour1	79.777	66.548	50.919	38.051	23.401	0.000	16.094	27.699
Hour2	79.312	66.160	50.622	37.829	23.264	0.000	16.000	27.537
Hour3	78.768	65.706	50.275	37.569	23.105	0.000	15.890	27.349
Hour4	78.497	65.480	50.102	37.440	23.025	0.000	15.836	27.255
Hour5	78.952	65.860	50.392	37.657	23.159	0.000	15.928	27.413
Hour6	80.034	66.762	51.083	38.173	23.476	0.000	16.146	27.788
Hour7	82.412	68.746	52.600	39.307	24.173	0.000	16.626	28.614
Hour8	84.311	70.330	53.813	40.213	24.731	0.000	17.009	29.273
Hour9	85.336	71.185	54.467	40.702	25.031	0.000	17.216	29.629
Hour10	85.426	71.260	54.524	40.745	25.057	0.000	17.234	29.660
Hour11	85.628	71.428	54.653	40.841	25.117	0.000	17.274	29.730
Hour12	85.488	71.312	54.564	40.775	25.076	0.000	17.246	29.682
Hour13	85.667	71.461	54.678	40.860	25.128	0.000	17.282	29.744
Hour14	85.872	71.632	54.809	40.957	25.188	0.000	17.324	29.815
Hour15	84.764	70.708	54.102	40.429	24.863	0.000	17.100	29.430
Hour16	83.807	69.910	53.491	39.973	24.583	0.000	16.907	29.098
Hour17	82.571	68.879	52.702	39.383	24.220	0.000	16.658	28.669
Hour18	81.000	67.568	51.699	38.634	23.759	0.000	16.341	28.123
Hour19	80.078	66.799	51.111	38.194	23.489	0.000	16.155	27.803
Hour20	79.918	66.666	51.009	38.118	23.442	0.000	16.122	27.748
Hour21	79.964	66.704	51.038	38.140	23.455	0.000	16.132	27.764
Hour22	79.729	66.508	50.888	38.028	23.387	0.000	16.084	27.682
Hour23	79.921	66.669	51.011	38.119	23.443	0.000	16.123	27.749
Hour24	79.971	66.710	51.042	38.143	23.457	0.000	16.133	27.766

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model t-Statistics

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	1.297	-0.688	1.210	-1.409	-0.201	0.079	0.627	0.931	-0.465
Hour2	1.287	-0.670	1.191	-1.394	-0.171	0.053	0.599	0.947	-0.440
Hour3	1.298	-0.678	1.197	-1.398	-0.182	0.054	0.621	0.973	-0.454
Hour4	1.309	-0.673	1.193	-1.390	-0.188	0.067	0.607	0.972	-0.446
Hour5	1.290	-0.693	1.212	-1.400	-0.194	0.073	0.615	0.954	-0.457
Hour6	1.282	-0.699	1.212	-1.392	-0.183	0.065	0.618	0.920	-0.463
Hour7	1.299	-0.757	1.242	-1.379	-0.161	0.050	0.612	0.793	-0.456
Hour8	1.319	-0.783	1.258	-1.370	-0.150	0.042	0.628	0.682	-0.469
Hour9	1.320	-0.782	1.269	-1.396	-0.158	0.051	0.632	0.633	-0.469
Hour10	1.337	-0.812	1.300	-1.425	-0.158	0.057	0.625	0.625	-0.468
Hour11	1.345	-0.790	1.280	-1.414	-0.150	0.055	0.615	0.614	-0.459
Hour12	1.353	-0.761	1.267	-1.433	-0.160	0.059	0.617	0.668	-0.458
Hour13	1.342	-0.729	1.241	-1.426	-0.160	0.055	0.631	0.690	-0.463
Hour14	1.340	-0.758	1.266	-1.440	-0.148	0.041	0.614	0.657	-0.446
Hour15	1.332	-0.744	1.247	-1.420	-0.135	0.033	0.604	0.710	-0.436
Hour16	1.336	-0.733	1.247	-1.440	-0.144	0.040	0.601	0.761	-0.433
Hour17	1.319	-0.691	1.221	-1.449	-0.148	0.042	0.596	0.831	-0.430
Hour18	1.325	-0.654	1.194	-1.430	-0.130	0.024	0.578	0.877	-0.410
Hour19	1.345	-0.659	1.202	-1.433	-0.133	0.029	0.550	0.843	-0.394
Hour20	1.332	-0.663	1.207	-1.434	-0.121	0.016	0.546	0.822	-0.385
Hour21	1.318	-0.656	1.193	-1.412	-0.122	0.010	0.582	0.830	-0.416
Hour22	1.317	-0.648	1.169	-1.375	-0.098	-0.009	0.598	0.843	-0.425
Hour23	1.292	-0.621	1.132	-1.336	-0.083	-0.018	0.592	0.862	-0.416
Hour24	1.276	-0.589	1.098	-1.311	-0.084	-0.012	0.589	0.890	-0.408

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June	July
Hour1	-1.650	-0.678	-0.599	0.171	-1.167	-0.675	-0.678	-2.189	-1.777	-1.678	-1.821
Hour2	-1.606	-0.710	-0.508	0.189	-1.198	-0.711	-0.699	-2.201	-1.790	-1.691	-1.836
Hour3	-1.607	-0.737	-0.423	0.211	-1.207	-0.730	-0.715	-2.210	-1.795	-1.693	-1.838
Hour4	-1.603	-0.746	-0.341	0.223	-1.214	-0.733	-0.712	-2.195	-1.773	-1.670	-1.818
Hour5	-1.630	-0.765	-0.248	0.247	-1.194	-0.719	-0.728	-2.209	-1.787	-1.684	-1.830
Hour6	-1.762	-0.819	-0.106	0.296	-1.149	-0.704	-0.728	-2.212	-1.789	-1.688	-1.831
Hour7	-1.987	-0.849	0.014	0.345	-1.104	-0.675	-0.711	-2.201	-1.777	-1.682	-1.818
Hour8	-2.181	-0.903	0.133	0.380	-1.054	-0.663	-0.734	-2.227	-1.799	-1.705	-1.840
Hour9	-2.285	-0.927	0.204	0.401	-1.040	-0.680	-0.726	-2.224	-1.798	-1.709	-1.843
Hour10	-2.290	-0.951	0.243	0.390	-1.033	-0.671	-0.710	-2.207	-1.779	-1.692	-1.826
Hour11	-2.330	-0.946	0.267	0.385	-1.061	-0.680	-0.719	-2.216	-1.789	-1.696	-1.829
Hour12	-2.364	-0.909	0.299	0.377	-1.056	-0.669	-0.704	-2.207	-1.780	-1.690	-1.819
Hour13	-2.387	-0.911	0.359	0.415	-1.049	-0.657	-0.711	-2.211	-1.788	-1.698	-1.826
Hour14	-2.415	-0.902	0.401	0.443	-1.037	-0.667	-0.695	-2.204	-1.784	-1.693	-1.817
Hour15	-2.378	-0.892	0.429	0.443	-1.045	-0.674	-0.685	-2.211	-1.789	-1.697	-1.819
Hour16	-2.215	-0.886	0.477	0.514	-1.093	-0.666	-0.689	-2.204	-1.776	-1.686	-1.809
Hour17	-2.064	-0.895	0.448	0.520	-1.131	-0.694	-0.710	-2.222	-1.798	-1.707	-1.829
Hour18	-1.964	-0.853	0.406	0.468	-1.184	-0.700	-0.740	-2.219	-1.790	-1.695	-1.823
Hour19	-1.822	-0.832	0.404	0.467	-1.156	-0.663	-0.706	-2.187	-1.757	-1.665	-1.797
Hour20	-1.688	-0.840	0.470	0.522	-1.150	-0.654	-0.694	-2.186	-1.757	-1.665	-1.802
Hour21	-1.591	-0.851	0.616	0.705	-1.128	-0.641	-0.659	-2.170	-1.751	-1.663	-1.795
Hour22	-1.441	-0.862	0.682	0.785	-1.107	-0.621	-0.639	-2.152	-1.732	-1.647	-1.784
Hour23	-1.314	-0.872	0.782	0.916	-1.071	-0.602	-0.635	-2.152	-1.735	-1.646	-1.784
Hour24	-1.133	-0.892	0.923	1.081	-1.049	-0.592	-0.624	-2.135	-1.722	-1.631	-1.773

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model t-Statistics

Variable	August	September	October	November	December	HLight	DST
Hour1	-2.103	-2.651	0.281	0.696	0.000	0.063	0.604
Hour2	-2.119	-2.669	0.257	0.688	0.000	0.073	0.586
Hour3	-2.128	-2.678	0.248	0.689	0.000	0.062	0.613
Hour4	-2.105	-2.657	0.258	0.698	0.000	0.047	0.622
Hour5	-2.116	-2.666	0.258	0.706	0.000	0.062	0.634
Hour6	-2.112	-2.654	0.292	0.756	0.000	0.077	0.630
Hour7	-2.095	-2.632	0.310	0.773	0.000	0.074	0.610
Hour8	-2.125	-2.664	0.283	0.743	0.000	0.072	0.657
Hour9	-2.129	-2.666	0.323	0.765	0.000	0.084	0.625
Hour10	-2.110	-2.646	0.316	0.777	0.000	0.070	0.630
Hour11	-2.113	-2.649	0.313	0.758	0.000	0.072	0.633
Hour12	-2.103	-2.642	0.338	0.747	0.000	0.064	0.642
Hour13	-2.110	-2.648	0.359	0.793	0.000	0.069	0.653
Hour14	-2.100	-2.635	0.382	0.802	0.000	0.071	0.643
Hour15	-2.103	-2.638	0.364	0.811	0.000	0.072	0.666
Hour16	-2.102	-2.641	0.363	0.805	0.000	0.049	0.702
Hour17	-2.128	-2.669	0.344	0.760	0.000	0.059	0.699
Hour18	-2.129	-2.679	0.315	0.789	0.000	0.043	0.717
Hour19	-2.100	-2.654	0.310	0.778	0.000	0.016	0.682
Hour20	-2.103	-2.658	0.320	0.785	0.000	0.017	0.682
Hour21	-2.093	-2.651	0.310	0.777	0.000	0.009	0.693
Hour22	-2.079	-2.629	0.309	0.799	0.000	0.002	0.669
Hour23	-2.082	-2.629	0.307	0.801	0.000	0.008	0.667
Hour24	-2.065	-2.617	0.315	0.768	0.000	0.000	0.651

Indiana Michigan Power Company - Michigan
Industrial Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1551	1524	0.108	0.016	167.753	104.198	83.33%	0	0.000	0.00%	0.000
Hour2	1551	1524	0.108	0.016	166.774	103.517	83.25%	0	0.000	0.00%	0.000
Hour3	1551	1524	0.108	0.015	165.631	102.857	83.09%	0	0.000	0.00%	0.000
Hour4	1551	1524	0.108	0.015	165.061	102.515	83.03%	0	0.000	0.00%	0.000
Hour5	1551	1524	0.108	0.015	166.018	103.112	83.10%	0	0.000	0.00%	0.000
Hour6	1551	1524	0.109	0.016	168.293	104.570	82.21%	0	0.000	0.00%	0.000
Hour7	1551	1524	0.111	0.017	173.293	107.700	81.28%	0	0.000	0.00%	0.000
Hour8	1551	1524	0.115	0.018	177.287	110.115	79.66%	0	0.000	0.00%	0.000
Hour9	1551	1524	0.116	0.019	179.442	111.444	79.14%	0	0.000	0.00%	0.000
Hour10	1551	1524	0.115	0.020	179.630	111.598	79.20%	0	0.000	0.00%	0.000
Hour11	1551	1524	0.115	0.020	180.055	111.832	78.71%	0	0.000	0.00%	0.000
Hour12	1551	1524	0.114	0.019	179.762	111.574	78.93%	0	0.000	0.00%	0.000
Hour13	1551	1524	0.115	0.019	180.137	111.735	79.60%	0	0.000	0.00%	0.000
Hour14	1551	1524	0.115	0.019	180.568	111.981	79.57%	0	0.000	0.00%	0.000
Hour15	1551	1524	0.114	0.018	178.239	110.546	79.63%	0	0.000	0.00%	0.000
Hour16	1551	1524	0.112	0.018	176.227	109.252	80.83%	0	0.000	0.00%	0.000
Hour17	1551	1524	0.110	0.016	173.628	107.651	81.73%	0	0.000	0.00%	0.000
Hour18	1551	1524	0.109	0.015	170.324	105.606	82.08%	0	0.000	0.00%	0.000
Hour19	1551	1524	0.110	0.015	168.385	104.381	81.74%	0	0.000	0.00%	0.000
Hour20	1551	1524	0.110	0.014	168.049	104.148	81.33%	0	0.000	0.00%	0.000
Hour21	1551	1524	0.110	0.014	168.145	104.178	81.93%	0	0.000	0.00%	0.000
Hour22	1551	1524	0.109	0.015	167.652	103.991	80.76%	0	0.000	0.00%	0.000
Hour23	1551	1524	0.108	0.016	168.056	104.266	81.35%	0	0.000	0.00%	0.000
Hour24	1551	1524	0.108	0.017	168.160	104.395	82.78%	0	0.000	0.00%	0.000

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Coefficients

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	42.709	-0.061	1.500	-1.021	-0.086	-0.004	1.080	0.140	-1.384
Hour2	42.022	0.008	1.394	-0.966	-0.052	-0.025	1.045	0.131	-1.366
Hour3	43.489	-0.078	1.505	-0.987	-0.073	0.019	1.129	0.138	-1.485
Hour4	43.457	-0.096	1.523	-0.985	-0.055	-0.006	1.091	0.142	-1.426
Hour5	43.791	-0.118	1.557	-0.990	-0.067	0.021	1.145	0.139	-1.492
Hour6	44.681	-0.229	1.721	-1.048	-0.034	-0.012	1.230	0.128	-1.568
Hour7	48.613	-0.450	2.068	-1.180	-0.008	-0.060	1.480	0.091	-1.801
Hour8	53.670	-0.623	2.330	-1.276	-0.008	-0.115	1.872	0.056	-2.177
Hour9	52.781	-0.819	2.627	-1.407	-0.004	-0.196	2.111	0.033	-2.338
Hour10	51.348	-0.855	2.758	-1.515	-0.018	-0.177	2.119	0.031	-2.358
Hour11	51.151	-0.809	2.774	-1.597	-0.067	-0.126	2.159	0.044	-2.386
Hour12	50.431	-0.748	2.757	-1.652	-0.114	-0.094	2.177	0.061	-2.351
Hour13	50.072	-0.695	2.728	-1.688	-0.113	-0.083	2.175	0.074	-2.363
Hour14	50.049	-0.618	2.646	-1.700	-0.100	-0.095	2.165	0.092	-2.343
Hour15	49.617	-0.550	2.538	-1.671	-0.085	-0.101	2.089	0.098	-2.271
Hour16	48.222	-0.468	2.370	-1.585	-0.070	-0.083	1.992	0.115	-2.232
Hour17	46.475	-0.313	2.096	-1.454	-0.037	-0.074	1.784	0.135	-2.057
Hour18	46.083	-0.266	1.989	-1.368	-0.045	-0.039	1.686	0.154	-1.985
Hour19	46.078	-0.338	2.031	-1.336	-0.074	0.017	1.673	0.164	-2.003
Hour20	46.277	-0.321	1.995	-1.308	-0.101	0.046	1.652	0.164	-1.996
Hour21	45.084	-0.303	1.925	-1.249	-0.122	0.060	1.627	0.171	-1.981
Hour22	44.254	-0.246	1.802	-1.166	-0.133	0.062	1.545	0.172	-1.883
Hour23	44.370	-0.201	1.699	-1.102	-0.141	0.061	1.403	0.174	-1.694
Hour24	44.009	-0.172	1.637	-1.069	-0.153	0.073	1.378	0.183	-1.671

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Coefficients

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	-3.539	-0.544	-0.285	0.250	-10.439	-12.108	-15.553	-36.468	-38.522	-41.255
Hour2	-3.325	-0.664	-0.155	0.224	-10.990	-12.809	-16.087	-36.783	-38.945	-41.547
Hour3	-3.684	-0.609	-0.022	0.273	-10.916	-12.537	-15.684	-35.955	-37.870	-40.342
Hour4	-3.992	-0.143	-0.007	0.224	-10.872	-12.421	-15.602	-35.718	-37.651	-40.088
Hour5	-4.478	0.018	0.178	0.288	-10.939	-12.604	-15.754	-36.177	-38.116	-40.544
Hour6	-6.169	0.079	0.369	0.395	-10.956	-12.855	-16.032	-37.885	-39.935	-42.957
Hour7	-9.352	0.427	0.562	0.786	-10.607	-12.702	-16.534	-40.921	-43.289	-47.464
Hour8	-13.276	-0.236	1.024	1.451	-9.823	-12.302	-17.189	-44.095	-45.882	-51.241
Hour9	-16.384	-1.250	1.349	1.830	-9.618	-12.312	-17.326	-45.941	-47.633	-54.496
Hour10	-16.973	-1.658	1.420	1.807	-10.143	-12.399	-17.750	-47.284	-49.345	-56.743
Hour11	-17.328	-2.158	1.491	1.675	-10.446	-12.549	-18.074	-48.132	-50.378	-58.323
Hour12	-17.584	-2.261	1.635	1.728	-10.706	-12.901	-18.450	-48.623	-51.109	-59.331
Hour13	-17.458	-2.422	1.624	1.767	-11.045	-13.177	-18.746	-49.140	-51.807	-60.227
Hour14	-17.042	-2.601	1.721	1.772	-11.349	-13.383	-19.005	-49.415	-52.267	-60.706
Hour15	-16.017	-2.600	1.786	1.873	-11.193	-13.273	-18.720	-48.861	-51.712	-59.740
Hour16	-13.687	-2.582	1.942	1.885	-11.514	-13.250	-18.580	-47.542	-50.524	-57.393
Hour17	-10.749	-2.657	1.964	1.847	-11.985	-13.531	-18.498	-45.529	-48.470	-54.117
Hour18	-8.664	-2.795	1.916	1.891	-12.972	-15.086	-19.835	-44.928	-47.504	-52.407
Hour19	-7.698	-2.833	1.873	1.829	-11.981	-13.513	-18.523	-43.004	-45.302	-49.784
Hour20	-7.035	-2.748	1.807	1.710	-12.048	-13.094	-17.306	-42.224	-44.584	-48.798
Hour21	-6.606	-2.392	1.375	1.377	-11.948	-13.162	-16.940	-41.663	-44.317	-48.414
Hour22	-5.818	-2.182	1.022	1.022	-11.757	-13.074	-16.754	-40.007	-42.275	-46.071
Hour23	-5.042	-1.963	0.681	0.732	-11.558	-12.842	-16.479	-38.614	-40.588	-43.766
Hour24	-4.727	-1.804	0.553	0.576	-11.648	-12.943	-16.553	-37.849	-39.779	-42.694

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Coefficients

Variable	July	August	September	October	November	December	HLight	DST
Hour1	-41.633	-41.179	-38.949	-0.432	-0.377	0.000	0.424	4.839
Hour2	-41.900	-41.390	-39.134	-1.202	-0.362	0.000	0.486	4.573
Hour3	-40.829	-40.508	-38.410	-1.084	-0.643	0.000	0.298	4.764
Hour4	-40.464	-40.187	-38.151	-1.093	-0.629	0.000	0.304	4.678
Hour5	-40.883	-40.632	-38.463	-1.070	-0.680	0.000	0.360	4.462
Hour6	-43.325	-42.848	-40.083	-0.902	-0.664	0.000	0.580	4.093
Hour7	-48.040	-47.125	-42.993	0.078	-0.199	0.000	0.762	4.101
Hour8	-52.593	-51.735	-45.460	0.742	0.303	0.000	0.777	5.294
Hour9	-55.942	-55.081	-46.978	2.427	1.535	0.000	1.290	4.181
Hour10	-58.121	-56.911	-48.321	3.200	1.952	0.000	1.617	4.099
Hour11	-59.586	-58.084	-49.052	3.961	2.261	0.000	1.795	3.914
Hour12	-60.604	-58.757	-49.376	4.536	2.494	0.000	1.949	3.812
Hour13	-61.419	-59.493	-49.847	5.112	2.578	0.000	2.015	3.899
Hour14	-61.853	-59.793	-50.210	5.456	2.555	0.000	1.999	4.131
Hour15	-60.858	-58.720	-49.721	5.735	2.620	0.000	1.897	4.398
Hour16	-58.273	-56.347	-48.729	5.049	2.100	0.000	1.687	4.771
Hour17	-54.757	-53.134	-47.009	3.821	1.314	0.000	1.429	4.903
Hour18	-53.006	-51.559	-46.339	0.948	0.453	0.000	1.270	4.346
Hour19	-50.664	-49.311	-44.561	1.491	0.575	0.000	1.108	3.201
Hour20	-49.638	-48.576	-44.234	2.303	0.450	0.000	0.949	3.686
Hour21	-49.176	-48.044	-43.706	0.769	-0.100	0.000	0.907	4.580
Hour22	-46.746	-45.837	-42.352	0.306	-0.268	0.000	0.751	4.877
Hour23	-44.329	-43.836	-41.000	-0.700	-0.478	0.000	0.526	5.189
Hour24	-43.072	-42.676	-40.200	-1.220	-0.750	0.000	0.442	5.117

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Standard Errors

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	37.587	1.117	1.553	0.659	1.275	1.916	1.916	0.163	3.125
Hour2	37.642	1.119	1.555	0.660	1.276	1.919	1.919	0.163	3.129
Hour3	37.427	1.112	1.547	0.657	1.269	1.908	1.908	0.162	3.111
Hour4	37.436	1.112	1.547	0.657	1.269	1.908	1.908	0.162	3.112
Hour5	38.030	1.130	1.572	0.667	1.290	1.939	1.939	0.165	3.162
Hour6	39.569	1.176	1.635	0.694	1.342	2.017	2.017	0.171	3.290
Hour7	42.906	1.275	1.773	0.753	1.455	2.187	2.187	0.186	3.567
Hour8	45.705	1.358	1.889	0.802	1.550	2.330	2.330	0.198	3.800
Hour9	47.614	1.415	1.968	0.835	1.615	2.427	2.427	0.206	3.958
Hour10	48.187	1.432	1.991	0.845	1.634	2.456	2.456	0.209	4.006
Hour11	48.357	1.437	1.998	0.848	1.640	2.465	2.465	0.209	4.020
Hour12	48.323	1.436	1.997	0.848	1.639	2.463	2.463	0.209	4.017
Hour13	48.332	1.436	1.997	0.848	1.639	2.464	2.464	0.209	4.018
Hour14	48.170	1.431	1.991	0.845	1.633	2.455	2.456	0.208	4.005
Hour15	47.555	1.413	1.965	0.834	1.613	2.424	2.424	0.206	3.953
Hour16	45.957	1.366	1.899	0.806	1.558	2.343	2.343	0.199	3.821
Hour17	43.703	1.299	1.806	0.767	1.482	2.228	2.228	0.189	3.633
Hour18	42.432	1.261	1.753	0.744	1.439	2.163	2.163	0.184	3.527
Hour19	42.412	1.260	1.753	0.744	1.438	2.162	2.162	0.184	3.526
Hour20	42.174	1.253	1.743	0.740	1.430	2.150	2.150	0.183	3.506
Hour21	41.289	1.227	1.706	0.724	1.400	2.105	2.105	0.179	3.432
Hour22	40.185	1.194	1.661	0.705	1.363	2.048	2.049	0.174	3.341
Hour23	38.940	1.157	1.609	0.683	1.320	1.985	1.985	0.169	3.237
Hour24	38.148	1.134	1.576	0.669	1.294	1.945	1.945	0.165	3.171

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Standard Errors

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June
Hour1	5.284	8.616	3.771	3.066	5.062	7.100	10.347	14.449	17.891	19.806
Hour2	5.292	8.628	3.776	3.070	5.069	7.111	10.362	14.470	17.917	19.835
Hour3	5.262	8.579	3.755	3.053	5.040	7.070	10.303	14.387	17.815	19.722
Hour4	5.263	8.581	3.756	3.053	5.041	7.072	10.305	14.391	17.819	19.727
Hour5	5.347	8.717	3.815	3.102	5.121	7.184	10.469	14.619	18.102	20.040
Hour6	5.563	9.070	3.970	3.227	5.329	7.475	10.892	15.211	18.835	20.851
Hour7	6.032	9.835	4.305	3.500	5.778	8.105	11.811	16.493	20.423	22.609
Hour8	6.426	10.477	4.585	3.728	6.155	8.634	12.582	17.569	21.755	24.084
Hour9	6.694	10.914	4.777	3.883	6.412	8.994	13.107	18.303	22.663	25.090
Hour10	6.775	11.046	4.834	3.930	6.489	9.103	13.265	18.523	22.936	25.392
Hour11	6.799	11.085	4.851	3.944	6.512	9.135	13.312	18.589	23.017	25.482
Hour12	6.794	11.077	4.848	3.941	6.508	9.128	13.302	18.576	23.001	25.464
Hour13	6.795	11.079	4.849	3.942	6.509	9.130	13.305	18.579	23.006	25.469
Hour14	6.772	11.042	4.833	3.929	6.487	9.099	13.260	18.517	22.928	25.383
Hour15	6.686	10.901	4.771	3.879	6.404	8.983	13.091	18.281	22.636	25.059
Hour16	6.461	10.534	4.611	3.748	6.189	8.681	12.651	17.666	21.875	24.217
Hour17	6.144	10.018	4.385	3.565	5.885	8.256	12.030	16.800	20.802	23.029
Hour18	5.965	9.726	4.257	3.461	5.714	8.015	11.680	16.311	20.197	22.359
Hour19	5.963	9.722	4.255	3.459	5.711	8.012	11.675	16.304	20.188	22.349
Hour20	5.929	9.667	4.231	3.440	5.679	7.967	11.609	16.212	20.074	22.223
Hour21	5.805	9.464	4.142	3.368	5.560	7.799	11.366	15.872	19.653	21.757
Hour22	5.650	9.211	4.032	3.278	5.412	7.591	11.062	15.447	19.127	21.175
Hour23	5.475	8.926	3.907	3.176	5.244	7.356	10.719	14.969	18.535	20.519
Hour24	5.363	8.744	3.827	3.111	5.137	7.206	10.501	14.664	18.158	20.102

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Standard Errors

Variable	July	August	September	October	November	December	HLight	DST
Hour1	18.835	15.712	12.022	8.984	5.525	0.000	3.800	6.540
Hour2	18.863	15.735	12.039	8.997	5.533	0.000	3.805	6.549
Hour3	18.755	15.645	11.971	8.945	5.501	0.000	3.784	6.512
Hour4	18.759	15.648	11.973	8.947	5.503	0.000	3.784	6.513
Hour5	19.057	15.897	12.163	9.089	5.590	0.000	3.845	6.617
Hour6	19.828	16.540	12.656	9.457	5.816	0.000	4.000	6.885
Hour7	21.500	17.935	13.723	10.255	6.307	0.000	4.337	7.465
Hour8	22.903	19.105	14.618	10.924	6.718	0.000	4.620	7.952
Hour9	23.859	19.903	15.229	11.380	6.999	0.000	4.813	8.284
Hour10	24.147	20.143	15.412	11.517	7.083	0.000	4.871	8.384
Hour11	24.232	20.214	15.466	11.558	7.108	0.000	4.889	8.413
Hour12	24.215	20.200	15.456	11.550	7.103	0.000	4.885	8.408
Hour13	24.220	20.203	15.459	11.552	7.104	0.000	4.886	8.409
Hour14	24.138	20.135	15.407	11.513	7.080	0.000	4.870	8.381
Hour15	23.830	19.879	15.210	11.366	6.990	0.000	4.807	8.274
Hour16	23.029	19.211	14.699	10.984	6.755	0.000	4.646	7.996
Hour17	21.900	18.268	13.978	10.445	6.424	0.000	4.418	7.604
Hour18	21.263	17.737	13.571	10.141	6.237	0.000	4.289	7.382
Hour19	21.253	17.729	13.565	10.137	6.234	0.000	4.288	7.379
Hour20	21.133	17.629	13.489	10.080	6.199	0.000	4.263	7.338
Hour21	20.690	17.259	13.206	9.868	6.069	0.000	4.174	7.184
Hour22	20.137	16.798	12.853	9.604	5.907	0.000	4.062	6.992
Hour23	19.513	16.277	12.455	9.307	5.724	0.000	3.937	6.775
Hour24	19.116	15.946	12.201	9.118	5.607	0.000	3.856	6.637

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model t-Statistics

Variable	Constant	HDD50	HDD55	HDD65	CDD65	CDD70	CDD65WkEnd	HDD65WkEnd	CDD70WkEnd
Hour1	1.136	-0.055	0.966	-1.548	-0.068	-0.002	0.564	0.860	-0.443
Hour2	1.116	0.007	0.896	-1.462	-0.041	-0.013	0.545	0.807	-0.437
Hour3	1.162	-0.070	0.973	-1.503	-0.057	0.010	0.592	0.855	-0.477
Hour4	1.161	-0.086	0.985	-1.499	-0.043	-0.003	0.572	0.877	-0.458
Hour5	1.151	-0.105	0.991	-1.484	-0.052	0.011	0.591	0.845	-0.472
Hour6	1.129	-0.195	1.052	-1.510	-0.025	-0.006	0.610	0.747	-0.477
Hour7	1.133	-0.353	1.167	-1.568	-0.005	-0.027	0.676	0.487	-0.505
Hour8	1.174	-0.459	1.234	-1.592	-0.005	-0.049	0.803	0.285	-0.573
Hour9	1.109	-0.578	1.335	-1.685	-0.002	-0.081	0.870	0.159	-0.591
Hour10	1.066	-0.597	1.385	-1.793	-0.011	-0.072	0.863	0.149	-0.589
Hour11	1.058	-0.563	1.388	-1.882	-0.041	-0.051	0.876	0.211	-0.594
Hour12	1.044	-0.521	1.381	-1.949	-0.069	-0.038	0.884	0.290	-0.585
Hour13	1.036	-0.484	1.366	-1.991	-0.069	-0.034	0.883	0.351	-0.588
Hour14	1.039	-0.431	1.330	-2.011	-0.061	-0.039	0.882	0.442	-0.585
Hour15	1.043	-0.389	1.291	-2.002	-0.052	-0.041	0.862	0.476	-0.574
Hour16	1.049	-0.343	1.248	-1.966	-0.045	-0.035	0.850	0.578	-0.584
Hour17	1.063	-0.241	1.160	-1.897	-0.025	-0.033	0.801	0.715	-0.566
Hour18	1.086	-0.211	1.134	-1.838	-0.031	-0.018	0.779	0.837	-0.563
Hour19	1.086	-0.269	1.159	-1.796	-0.051	0.008	0.774	0.891	-0.568
Hour20	1.097	-0.256	1.145	-1.768	-0.070	0.021	0.768	0.896	-0.569
Hour21	1.092	-0.247	1.128	-1.724	-0.087	0.028	0.773	0.956	-0.577
Hour22	1.101	-0.206	1.085	-1.654	-0.098	0.030	0.754	0.990	-0.564
Hour23	1.139	-0.174	1.056	-1.613	-0.107	0.031	0.707	1.032	-0.523
Hour24	1.154	-0.151	1.039	-1.597	-0.118	0.037	0.708	1.109	-0.527

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model t-Statistics

Variable	WkEnd	MajorHolidays	Monday	TWT	January	February	March	April	May	June	July
Hour1	-0.670	-0.063	-0.075	0.082	-2.062	-1.705	-1.503	-2.524	-2.153	-2.083	-2.210
Hour2	-0.628	-0.077	-0.041	0.073	-2.168	-1.801	-1.552	-2.542	-2.174	-2.095	-2.221
Hour3	-0.700	-0.071	-0.006	0.089	-2.166	-1.773	-1.522	-2.499	-2.126	-2.046	-2.177
Hour4	-0.759	-0.017	-0.002	0.073	-2.157	-1.757	-1.514	-2.482	-2.113	-2.032	-2.157
Hour5	-0.838	0.002	0.047	0.093	-2.136	-1.754	-1.505	-2.475	-2.106	-2.023	-2.145
Hour6	-1.109	0.009	0.093	0.122	-2.056	-1.720	-1.472	-2.491	-2.120	-2.060	-2.185
Hour7	-1.550	0.043	0.131	0.225	-1.836	-1.567	-1.400	-2.481	-2.120	-2.099	-2.234
Hour8	-2.066	-0.023	0.223	0.389	-1.596	-1.425	-1.366	-2.510	-2.109	-2.128	-2.296
Hour9	-2.448	-0.115	0.283	0.471	-1.500	-1.369	-1.322	-2.510	-2.102	-2.172	-2.345
Hour10	-2.505	-0.150	0.294	0.460	-1.563	-1.362	-1.338	-2.553	-2.151	-2.235	-2.407
Hour11	-2.549	-0.195	0.307	0.425	-1.604	-1.374	-1.358	-2.589	-2.189	-2.289	-2.459
Hour12	-2.588	-0.204	0.337	0.438	-1.645	-1.413	-1.387	-2.618	-2.222	-2.330	-2.503
Hour13	-2.569	-0.219	0.335	0.448	-1.697	-1.443	-1.409	-2.645	-2.252	-2.365	-2.536
Hour14	-2.516	-0.236	0.356	0.451	-1.750	-1.471	-1.433	-2.669	-2.280	-2.392	-2.562
Hour15	-2.396	-0.239	0.374	0.483	-1.748	-1.478	-1.430	-2.673	-2.285	-2.384	-2.554
Hour16	-2.118	-0.245	0.421	0.503	-1.860	-1.526	-1.469	-2.691	-2.310	-2.370	-2.530
Hour17	-1.749	-0.265	0.448	0.518	-2.036	-1.639	-1.538	-2.710	-2.330	-2.350	-2.500
Hour18	-1.452	-0.287	0.450	0.547	-2.270	-1.882	-1.698	-2.754	-2.352	-2.344	-2.493
Hour19	-1.291	-0.291	0.440	0.529	-2.098	-1.687	-1.587	-2.638	-2.244	-2.228	-2.384
Hour20	-1.186	-0.284	0.427	0.497	-2.121	-1.644	-1.491	-2.605	-2.221	-2.196	-2.349
Hour21	-1.138	-0.253	0.332	0.409	-2.149	-1.688	-1.490	-2.625	-2.255	-2.225	-2.377
Hour22	-1.030	-0.237	0.253	0.312	-2.173	-1.722	-1.515	-2.590	-2.210	-2.176	-2.321
Hour23	-0.921	-0.220	0.174	0.231	-2.204	-1.746	-1.537	-2.580	-2.190	-2.133	-2.272
Hour24	-0.881	-0.206	0.144	0.185	-2.267	-1.796	-1.576	-2.581	-2.191	-2.124	-2.253

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model t-Statistics

Variable	August	September	October	November	December	HLight	DST
Hour1	-2.621	-3.240	-0.048	-0.068	0.000	0.111	0.740
Hour2	-2.630	-3.251	-0.134	-0.065	0.000	0.128	0.698
Hour3	-2.589	-3.209	-0.121	-0.117	0.000	0.079	0.732
Hour4	-2.568	-3.186	-0.122	-0.114	0.000	0.080	0.718
Hour5	-2.556	-3.162	-0.118	-0.122	0.000	0.094	0.674
Hour6	-2.591	-3.167	-0.095	-0.114	0.000	0.145	0.594
Hour7	-2.628	-3.133	0.008	-0.032	0.000	0.176	0.549
Hour8	-2.708	-3.110	0.068	0.045	0.000	0.168	0.666
Hour9	-2.767	-3.085	0.213	0.219	0.000	0.268	0.505
Hour10	-2.825	-3.135	0.278	0.276	0.000	0.332	0.489
Hour11	-2.874	-3.172	0.343	0.318	0.000	0.367	0.465
Hour12	-2.909	-3.195	0.393	0.351	0.000	0.399	0.453
Hour13	-2.945	-3.225	0.443	0.363	0.000	0.412	0.464
Hour14	-2.970	-3.259	0.474	0.361	0.000	0.410	0.493
Hour15	-2.954	-3.269	0.505	0.375	0.000	0.395	0.532
Hour16	-2.933	-3.315	0.460	0.311	0.000	0.363	0.597
Hour17	-2.909	-3.363	0.366	0.204	0.000	0.324	0.645
Hour18	-2.907	-3.415	0.093	0.073	0.000	0.296	0.589
Hour19	-2.781	-3.285	0.147	0.092	0.000	0.258	0.434
Hour20	-2.755	-3.279	0.229	0.073	0.000	0.223	0.502
Hour21	-2.784	-3.310	0.078	-0.016	0.000	0.217	0.638
Hour22	-2.729	-3.295	0.032	-0.045	0.000	0.185	0.698
Hour23	-2.693	-3.292	-0.075	-0.083	0.000	0.134	0.766
Hour24	-2.676	-3.295	-0.134	-0.134	0.000	0.115	0.771

Indiana MichiganPower Company - Michigan
Other Retail Peak Demand Model Statistics

Hour	Obs	DF	AdjRSq	DW	StdErr	MAD	MAPE	FObs	FMAD	FMAPE	FAvgErr
Hour1	1551	1524	0.127	0.018	39.605	24.433	115.91%	0	0.000	0.00%	0.000
Hour2	1551	1524	0.128	0.020	39.664	24.430	115.86%	0	0.000	0.00%	0.000
Hour3	1551	1524	0.129	0.017	39.437	24.321	115.22%	0	0.000	0.00%	0.000
Hour4	1551	1524	0.128	0.017	39.446	24.319	114.09%	0	0.000	0.00%	0.000
Hour5	1551	1524	0.128	0.016	40.072	24.720	112.59%	0	0.000	0.00%	0.000
Hour6	1551	1524	0.127	0.017	41.695	25.752	108.60%	0	0.000	0.00%	0.000
Hour7	1551	1524	0.129	0.022	45.210	27.975	104.52%	0	0.000	0.00%	0.000
Hour8	1551	1524	0.134	0.032	48.160	29.786	99.12%	0	0.000	0.00%	0.000
Hour9	1551	1524	0.136	0.045	50.171	30.974	97.41%	0	0.000	0.00%	0.000
Hour10	1551	1524	0.134	0.050	50.775	31.340	97.16%	0	0.000	0.00%	0.000
Hour11	1551	1524	0.133	0.051	50.954	31.450	96.78%	0	0.000	0.00%	0.000
Hour12	1551	1524	0.132	0.052	50.919	31.422	96.77%	0	0.000	0.00%	0.000
Hour13	1551	1524	0.131	0.052	50.928	31.423	98.12%	0	0.000	0.00%	0.000
Hour14	1551	1524	0.129	0.051	50.757	31.299	99.78%	0	0.000	0.00%	0.000
Hour15	1551	1524	0.127	0.049	50.110	30.879	101.12%	0	0.000	0.00%	0.000
Hour16	1551	1524	0.124	0.042	48.425	29.852	103.43%	0	0.000	0.00%	0.000
Hour17	1551	1524	0.121	0.033	46.050	28.420	105.66%	0	0.000	0.00%	0.000
Hour18	1551	1524	0.122	0.026	44.711	27.636	106.64%	0	0.000	0.00%	0.000
Hour19	1551	1524	0.124	0.023	44.690	27.640	108.66%	0	0.000	0.00%	0.000
Hour20	1551	1524	0.126	0.022	44.439	27.496	109.71%	0	0.000	0.00%	0.000
Hour21	1551	1524	0.125	0.020	43.506	26.938	109.97%	0	0.000	0.00%	0.000
Hour22	1551	1524	0.125	0.019	42.343	26.172	111.20%	0	0.000	0.00%	0.000
Hour23	1551	1524	0.125	0.019	41.032	25.332	112.72%	0	0.000	0.00%	0.000
Hour24	1551	1524	0.126	0.019	40.197	24.791	114.56%	0	0.000	0.00%	0.000

RESIDENTIAL AND COMMERCIAL SAE DOCUMENTATION



Residential Statistically Adjusted End-Use (SAE) Spreadsheets – 2018 AEO Update

The Residential SAE spreadsheets and models have recently been updated based on the Energy Information Administration’s (EIA) *2018 Annual Energy Outlook (AEO)*. The updated spreadsheets reflect the Reference case, which no longer includes the impact of the Clean Power Plan (CPP).

The 2018 residential SAE spreadsheets and *MetrixND* project files include:

- Updated equipment efficiency trends
- Updated equipment and appliance saturation trends
- Updated structural indices
- Updated annual heating, cooling, water heating, and Non-HVAC indices
- Updated regional sales forecasts

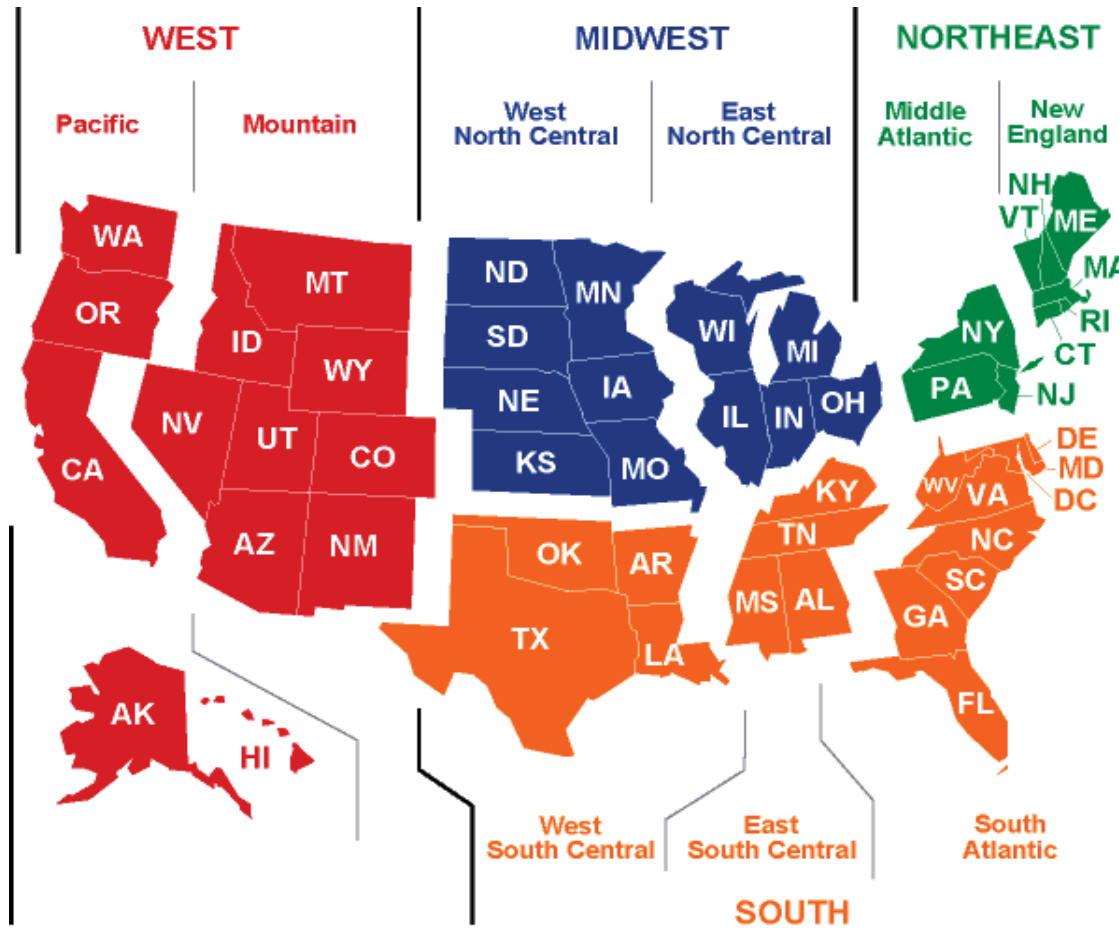
End-use saturation, efficiency, structural changes (building shell efficiency improvements and square footage projections), and base-year end-use energy use are combined to develop historical and projected end-use intensity estimates. Resulting intensities can be used in constructing heating, cooling, and other use variables for residential average use and total sales forecast models.

EIA end-use saturation, efficiency and annual appliance usage (UEC – Unit Energy Consumption) are derived from the National End-Use Model System (NEMS). While NEMS generates detailed end-use data, EIA is primarily concerned with the high-level projection of total energy requirements (measured in Btu) across all end-uses and sectors including transportation. From an electric or natural gas utility forecaster’s perspective, it is the underlying end-use and technology level detail that provides insights into how individual residential and commercial customers are using electricity and natural gas, trends in end-use energy consumption, and what these trends imply for future electric and gas usage at the regional level.



EIA provides end-use detail for nine census divisions, depicted in Figure 1.

Figure 1: Forecast Census Divisions



The 2018 AEO forecast base-year is 2009. Base-year end-use UEC, saturations and efficiency are derived from the 2009 Residential Energy Consumption Survey (RECS). The NEMS model, tracks end-use saturation and stock efficiency change over time with changes in customer appliance choices in the new home and replacement markets. Appliance choice decisions are driven by appliance costs, efficiency options and standards, natural gas availability, and fuel prices for electricity and natural gas. Forecasts are developed for three housing types – single family, multi-family, and mobile homes, for twenty end-uses, including:

- Resistance heating/furnaces
- Air-source heat pumps (heating)



- Ground-source heat pumps (heating)
- Secondary heating
- Central air conditioning
- Air-source heat pumps (cooling)
- Ground-source heat pumps (cooling)
- Room air conditioning
- Water heating
- Cooking
- 1st refrigerators
- 2nd refrigerators
- Freezers
- Dishwashers
- Clothes washers
- Clothes dryers
- TVs and related equipment
- Furnace fans
- Lighting
- Miscellaneous

In the Statistically Adjusted End-Use (SAE) model, detailed end-use data derived from the EIA forecasts is used to construct end-use intensities (kWh per household) that are then integrated into monthly heating, cooling, and other use model variables. These variables are then used to forecast utility-level residential and commercial sales through estimated linear regression models. This approach allows utilities to capture the significant improvements in energy efficiency reflected in past usage and to account for expected improvements due to standards, new technologies, as well as state and utility efficiency programs in the future.

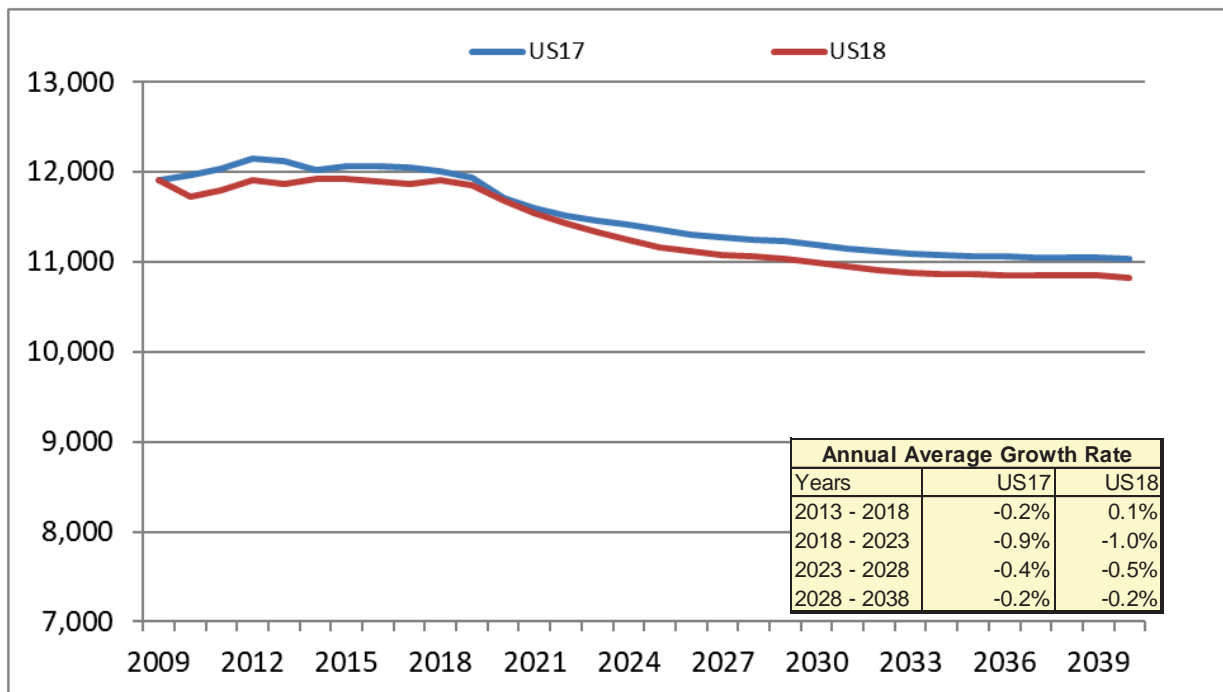
To support econometric modeling, Itron maintains and updates historical end-use data trends that are consistent with the 2009 RECS and earlier RECS (such as the 2005 RECS). Doing so sometimes requires adjusting historical end-use saturation and efficiency trends to reflect what EIA believes is the current state of appliance ownership, stock efficiency, and housing characteristics. The 2018 SAE spreadsheets reflect Itron's best estimates of historical end-use saturations, efficiency, and usage given EIA's 2009 base-year starting point and past estimates of end-use stock characteristics. This is the last year the AEO forecast will be based on the 2009 RECS. Going forward, the AEO forecast will be based on the more recent 2015 RECS.



Changes from 2017 Forecast - Electricity

Figure 2 compares the SAE 2017 and SAE 2018 residential total household intensity projections for the U.S. Intensities are measured in kWh per household. Both 2017 and 2018 forecasts exclude CPP adjustments.

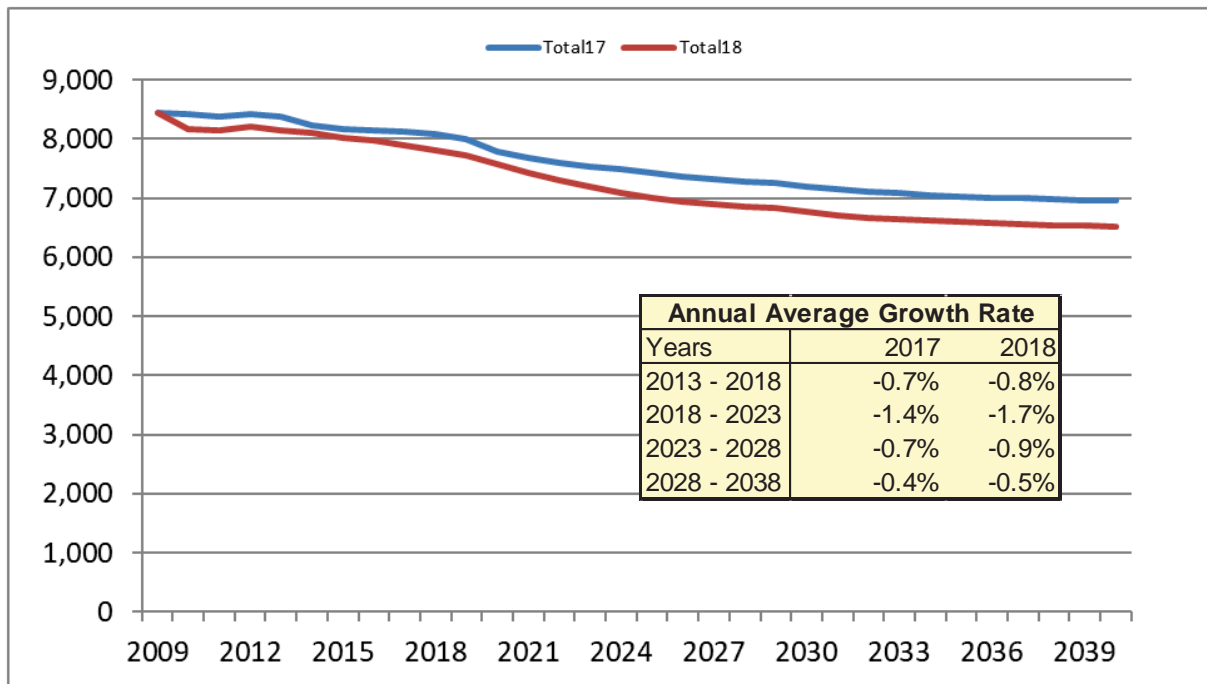
Figure 2: U.S. Residential Total Intensity (kWh/household)



The 2008 total intensity is lower on an absolute basis and declines at a slightly faster rate; each year, EIA forecasts lower long-term energy intensities. In the updated forecast, total intensity declines on average 1.0% through 2023 compared with last year’s forecast of 0.9% average annual decline. Over the next five years total intensity averages 0.5% decline compared with 0.4% decline in the 2017 forecast. Growth rate differences are even larger across some of the census divisions. Figure 3, for example, compares Mid-Atlantic census division 2017 and 2018 energy intensities.



Figure 3: Mid-Atlantic Energy Intensity (kWh/household)



Over the next five years, the 2018 Mid-Atlantic intensity averages 1.7% decline compared with 1.4% average decline in 2017 forecast.

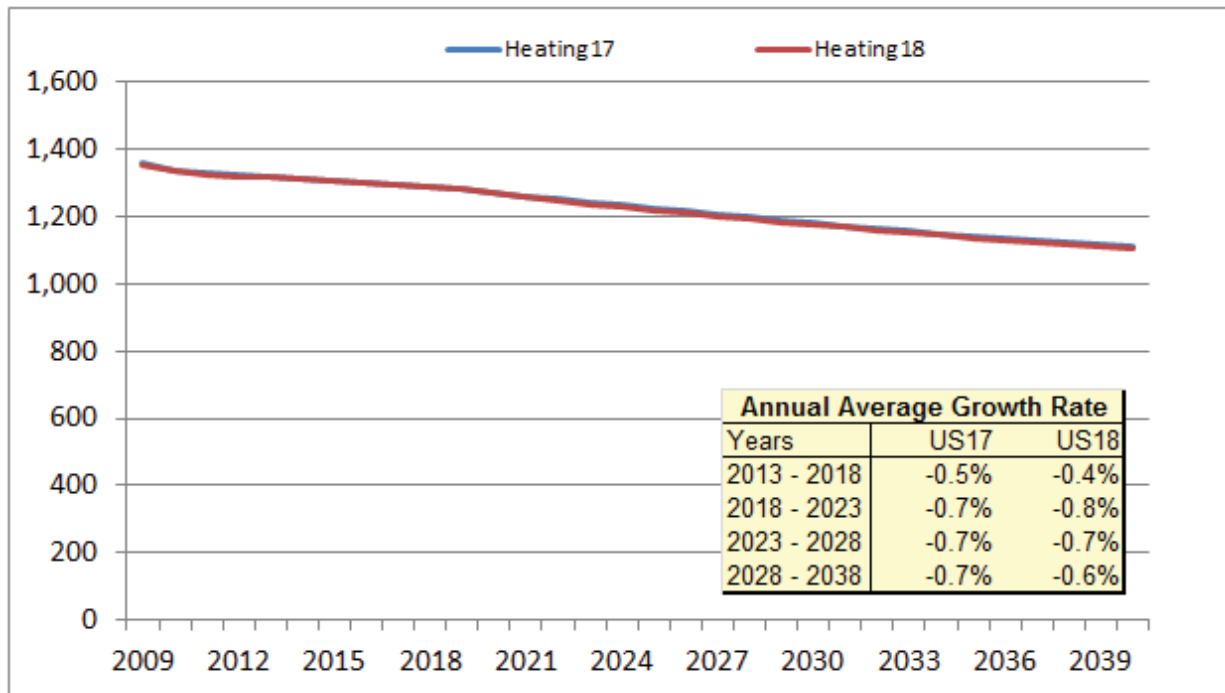
Another factor to note is that the end-use intensity projections include EIA’s assumption on future utility efficiency efficiency (EE) spending. EIA intensity estimates also include projected behind the meter (BTM) solar adoption. EIA has provided us with their solar load forecast, so we have been able to back out EIA’s solar load forecast from the SAE spreadsheets. EIA has said they will provide EE savings estimates later this summer; we will provide updated SAE 2018 spreadsheets that exclude EE savings estimates once we are able to process this data.



Electric Heating

Electric heating includes resistant electric heat, heat pumps, and furnace fan loads. Figure 4 shows the 2017 and 2018 heating intensity forecasts.

Figure 4: Heating Intensity Projections (kWh/household)



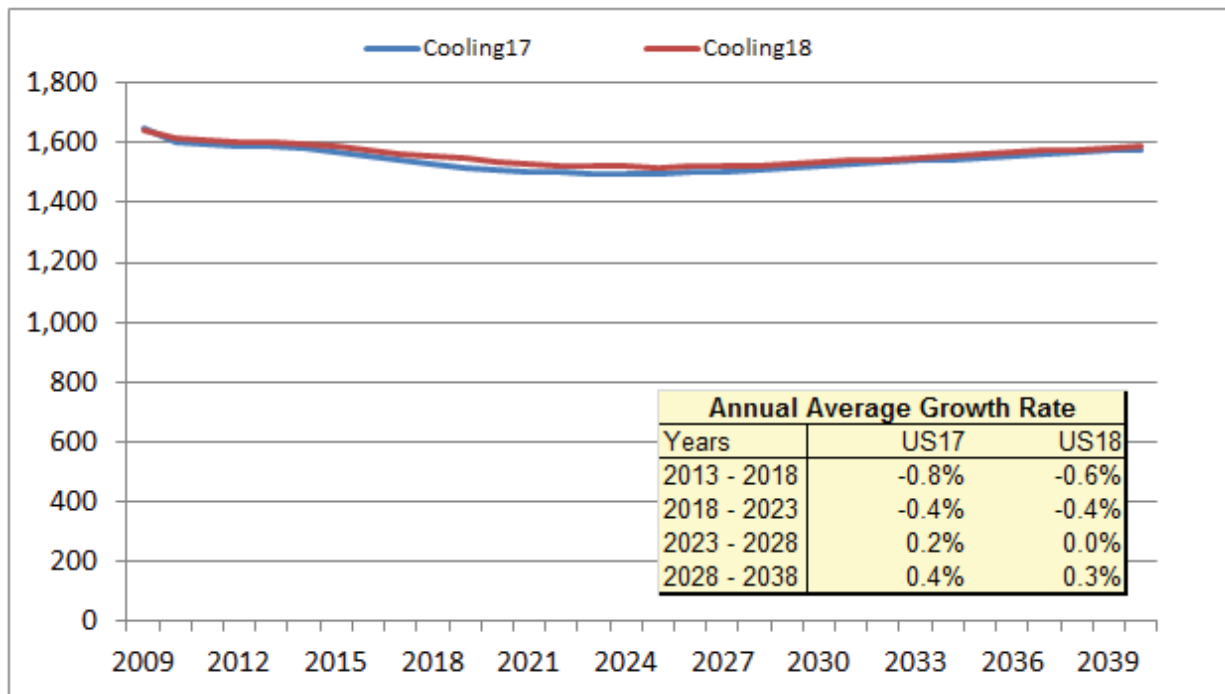
Total heating intensity forecast is only slightly different from the 2017 forecast.



Cooling

Cooling includes central and room air conditioning, and air-source heat pumps. There is also a small amount of cooling load from ground-source heat pumps. Figure 5 compares the 2017 and 2018 cooling intensity projections.

Figure 5: Cooling Intensity Projections (kWh/household)



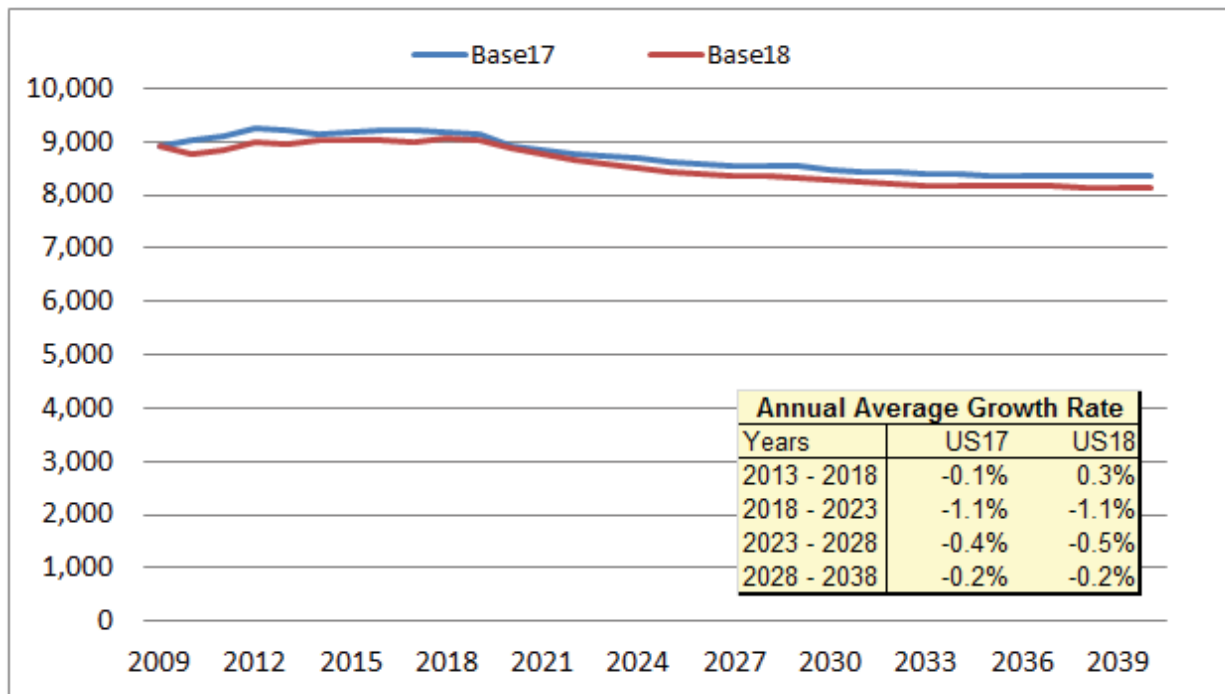
Near-term decline in cooling intensity is similar to last year’s forecast; overall cooling efficiency increases faster than air conditioning saturation contributing to a -0.4% decline in average annual cooling intensity. Longer term, cooling intensity flattens out and shows some growth as improvements in air conditioning efficiency slows.



Electric Base Use

Electric base-use (loads which are not weather-sensitive) accounts for the largest share of residential electricity use. At the U.S. level, base-use accounts for 75% of residential electricity sales. Figure 6 compares base-use intensity projections.

Figure 6: Base Use Intensity (kWh/household)



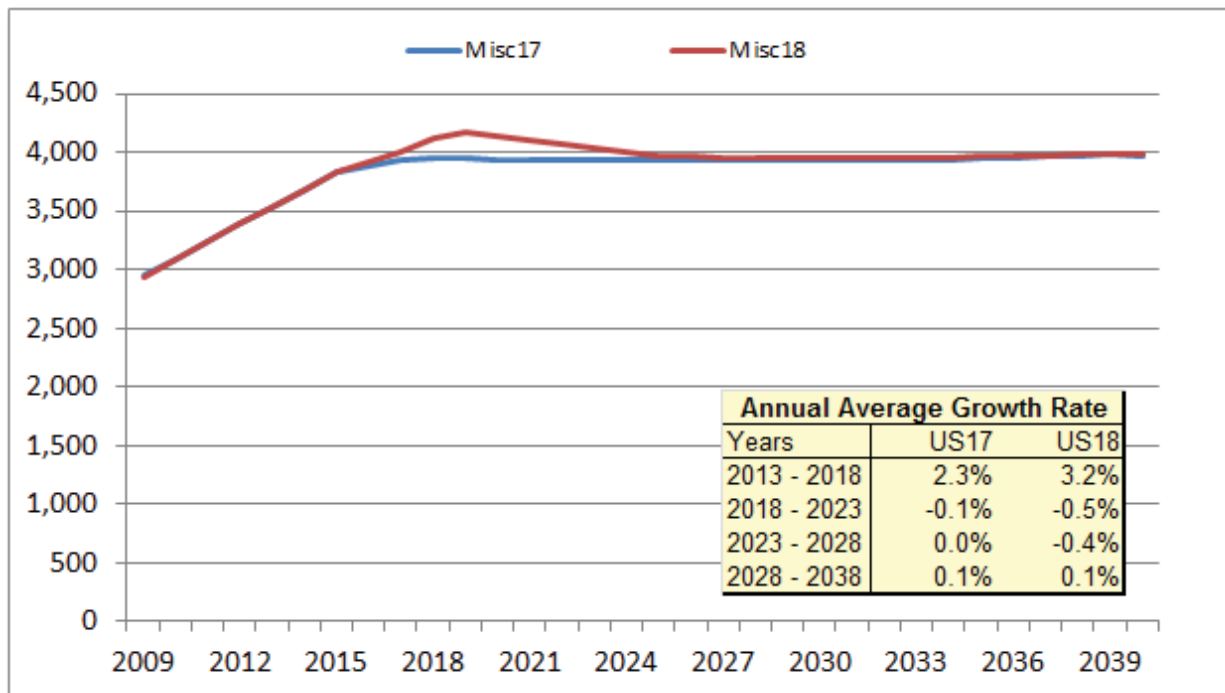
The 2018 base-use intensity is slightly lower in terms of kWh per household than the 2017 forecast, but the forecasted growth rates are similar; average base-use intensity declines through the foreseeable future with the strongest decline over the next five years. While 2018 and 2017 total base-use intensity forecasts follow the same growth projectory, there are significant differences across some of the underlying end-uses. The largest differences are in miscellaneous, water heating, electric dryers, and lighting.



Miscellaneous

Miscellaneous is the largest end-use category accounting for roughly 25% of residential usage, and nearly half of base-use. Miscellaneous includes everything from pool pumps and security systems to smart phones and other plug-in devices. Figure 7 shows EIA’s miscellaneous energy intensity forecasts for the current and prior-year forecasts.

Figure 7: EIA Miscellaneous Intensity Projections (kWh/household)

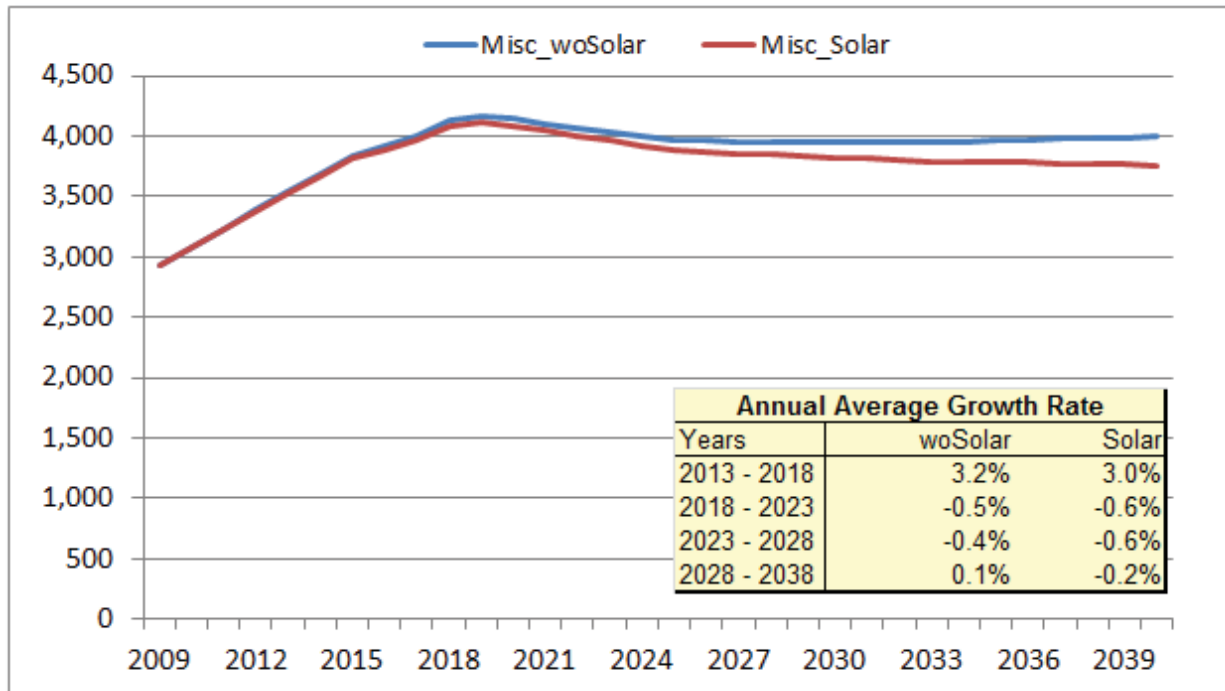


The 2018 forecast shows an average annual decline of 0.5% through 2023 and continues to decline through 2028. In comparison the 2017 miscellaneous intensity forecast was largely flat through the forecast period. Changes in historical growth are a large contributor to differences in forecasted growth. The 2018 forecast shows 3.2% miscellaneous growth between 2013 and 2018 compared with 2.3% growth in the 2017 forecast. Ultimately, the 2018 and 2017 miscellaneous intensity projections reach the same point in 2027 at roughly 4,000 kWh per household.



The 2018 miscellaneous sales would decline even faster if BTM solar was not backed out of the forecast. Most of EIA’s solar load impact rolls through the miscellaneous end-use. Figure 8 compares miscellaneous intensity with and without solar own-use generation.

Figure 8: Miscellaneous Solar Adjustment (kWh/household)

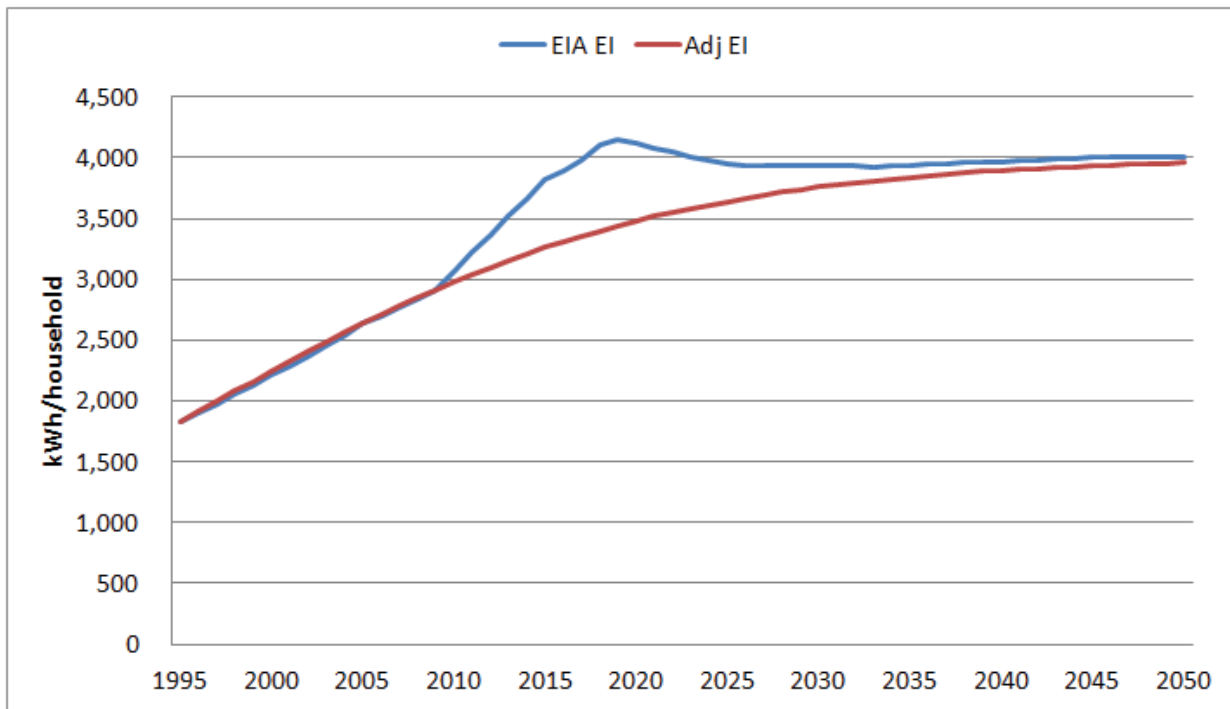


Alternative Miscellaneous Intensity Curve

Miscellaneous sales growth like that associated with all new technologies can be expected to slow in the future as saturation growth of home miscellaneous end-uses slows down and efficiency improves. However, we are not entirely comfortable with the idea that miscellaneous energy use (which has been carrying most of residential usage growth for the last ten years) will turn negative over the near-term. Part of the decline may be attributed to embedded EE savings assumptions that we hope to back out later this summer. In the meantime, we have developed an adjusted miscellaneous intensity curve for each census division. The curve is based on a Bass Diffusion model that runs through the 2009 RECS estimate and ultimately reaches the long-term EIA intensity projection. Figure 9 compares adjusted against EIA’s miscellaneous projections (excluding solar).



Figure 9: Adjusted Miscellaneous Usage Curve



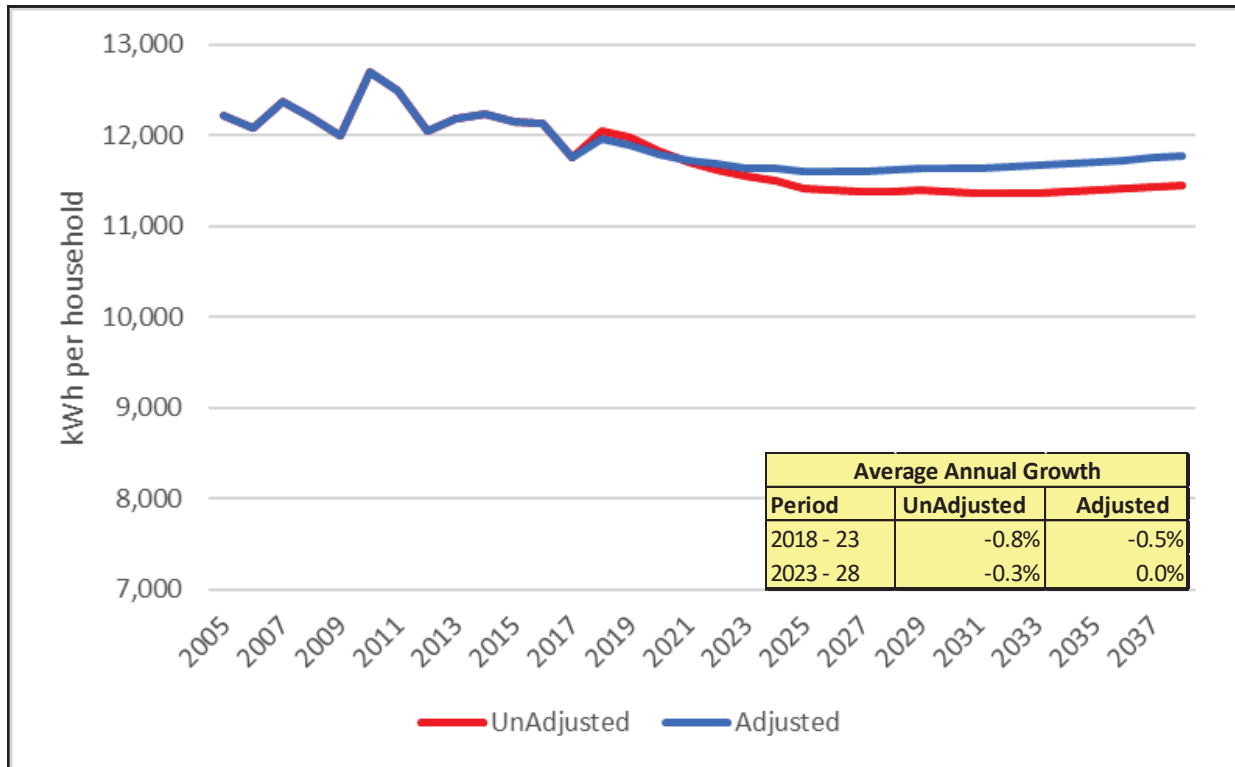
In contrast to EIA estimate, the adjusted miscellaneous intensity continues to increase over the entire forecast period but does so at a slowing rate. The curve fits historical data through 2009 but increases at a slower rate through 2018 than EIA’s assumption. As this process impacts historical miscellaneous load estimates as well as the forecast, using the adjusted estimates in SAE models will change model coefficients.

In updating forecasts, we recommend comparing model results and forecasts using the unadjusted and adjusted miscellaneous intensity projections. Should you choose to use the adjusted miscellaneous curve, simply change the miscellaneous link in your MetrixND energy intensity Data Table to point to the “Misc_Adj” instead of “Misc”.



Figure 10 shows predicted average use for the U.S. with the unadjusted and adjusted miscellaneous intensities.

Figure 10: U.S. Average Use with Adjusted Miscellaneous Intensity



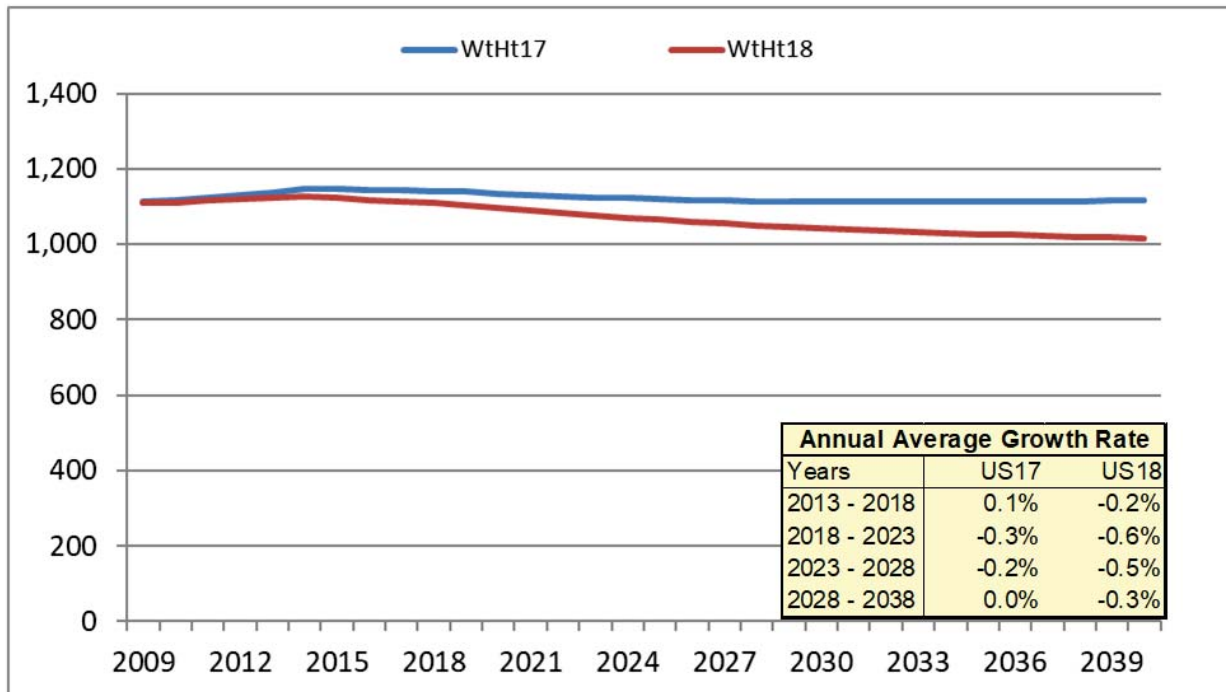
Using the curve-fitted intensity estimate, U.S. total intensity declines on average 0.5% (adjusted) over the next five years compared with -0.8% using EIA’s miscellaneous (unadjusted) intensity projection. Between 2023 and 2028, adjusted miscellaneous results in flat average use projection vs. a 0.3% decline with EIA’s projection.



Water Heating

The electric water heating also declines at a faster rate than in the 2017 forecast. Figure 11 compares 2018 and 2017 forecasted water heating intensity.

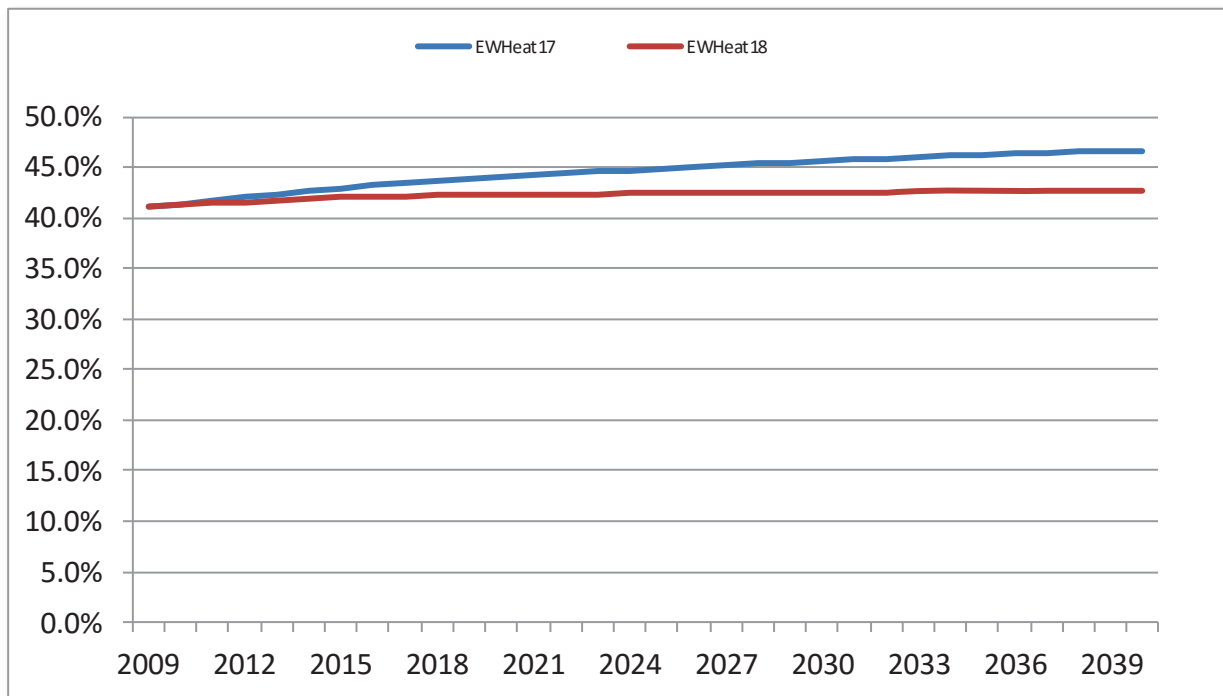
Figure 11: Electric Water Heating Intensity (kWh/household)



For electric water heating it isn't differences in efficiency that drives the trends, but rather differences in saturation. The 2018 water heating saturation is lower because of lower natural gas prices which in turn results in higher saturation of gas water heating heating. Figure 12 compares electric water heating saturation.



Figure 12: Electric Water Heating Saturation



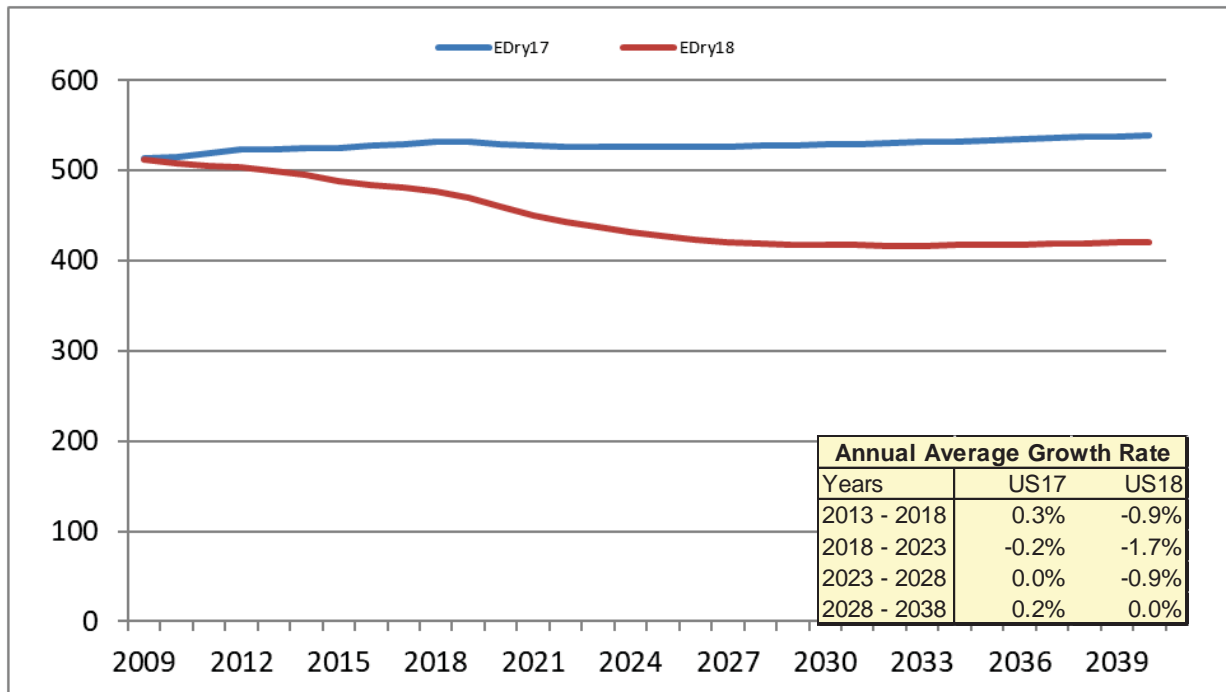
By 2023, electric water heating saturation is three percent lower in the 2018 forecast.



Electric Dryers

The 2018 electric dryer intensity is also lower than last year. Figure 13 compares 2017 and 2018 electric dryer intensities.

Figure 13: Electric Dryer Intensity (kWh/household)

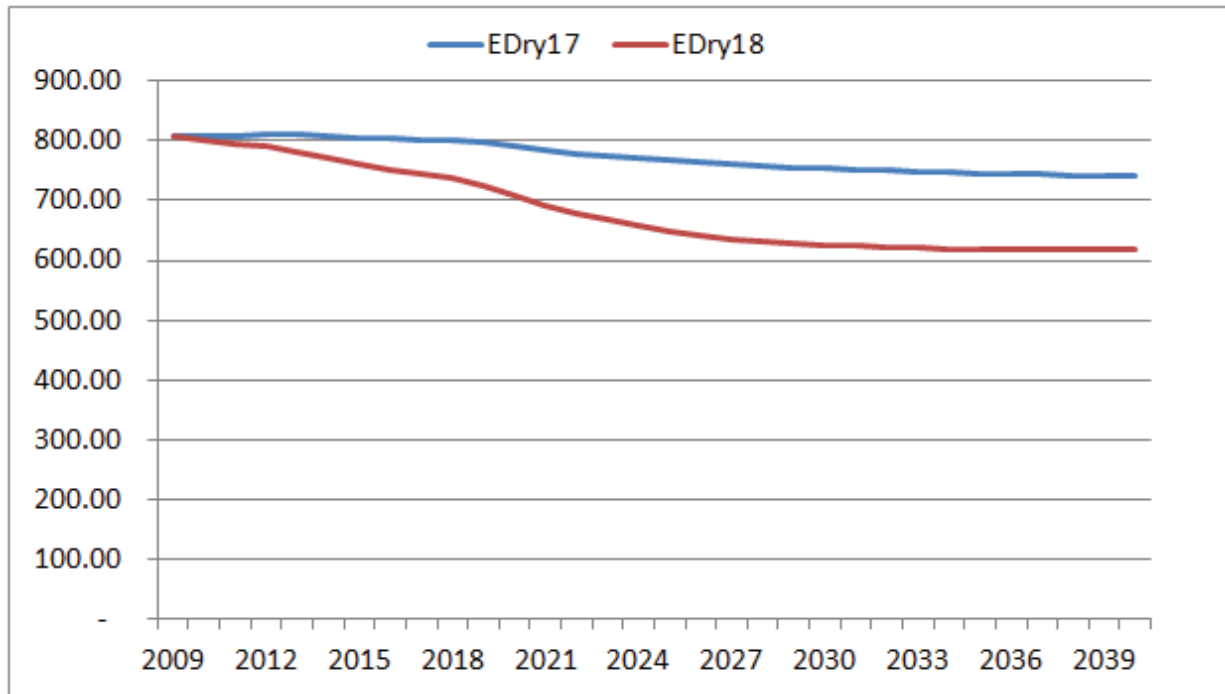


While part of the difference is again due to lower electric dryer saturation, the bigger factor is assumed to be the stronger gain electric dryer efficiency.



Part of the difference is again due to lower natural gas prices that translate into lower electric and higher gas dryer saturations. The larger factor though is due to higher electric heat efficiency improvements; part of this may be driven by EIA’s EE program assumption. Figure 14 compares electric dryer efficiency forecast.

Figure 14: Electric Dryer Efficiency Projections (kWh/year)

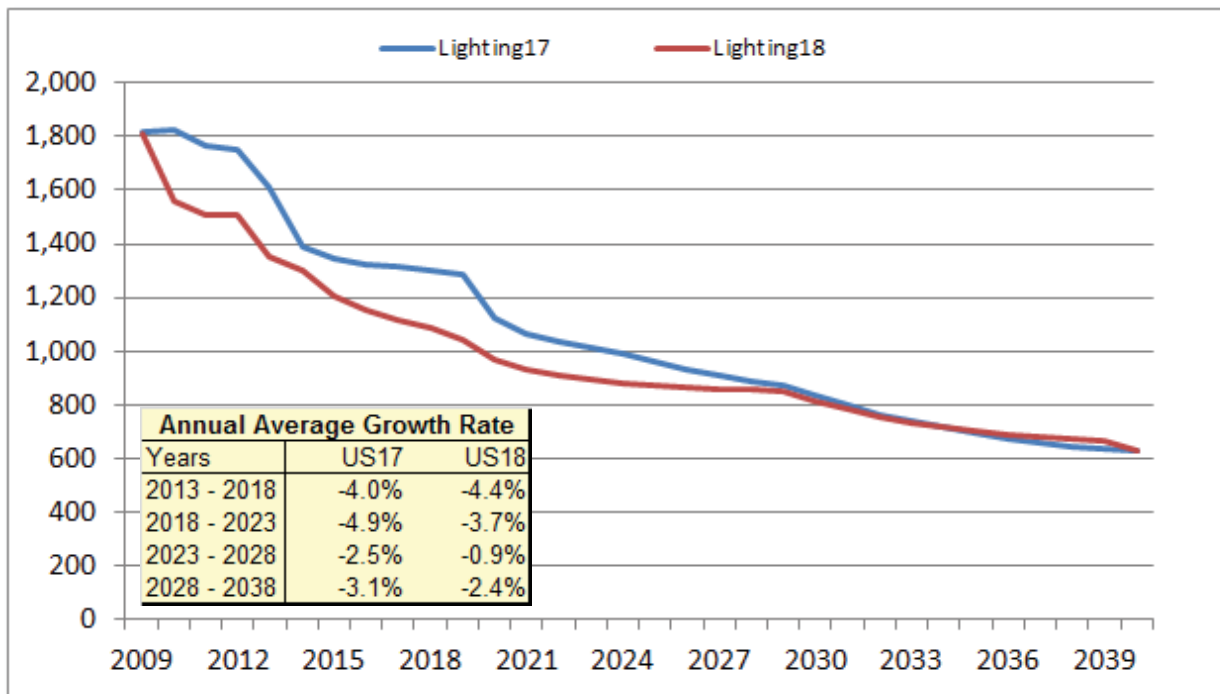




Lighting

In 2018 residential lighting was adjusted to better account for historical shipment shares of general service incandescents, CFLs, and LEDs, as well as utility rebate incentives. Figure 15 shows lighting intensity projections.

Figure 15: Lighting Intensity (kWh/household)



The new forecast reflects faster upfront penetration of LED lighting with part of that due to utility lighting incentive programs. Because of earlier LED penetration, the sharp drop due where the new standards go into effect shown in the 2017 forecast are softened in the updated forecast. Lighting intensity flattens out after 2024 with lighting intensity reaching 800 kWh per household by 2030. Slower decline in lighting intensity largely compensates for stronger intensity declines in miscellaneous, water heating, and electric dryers.



Changes from 2017 – Natural Gas

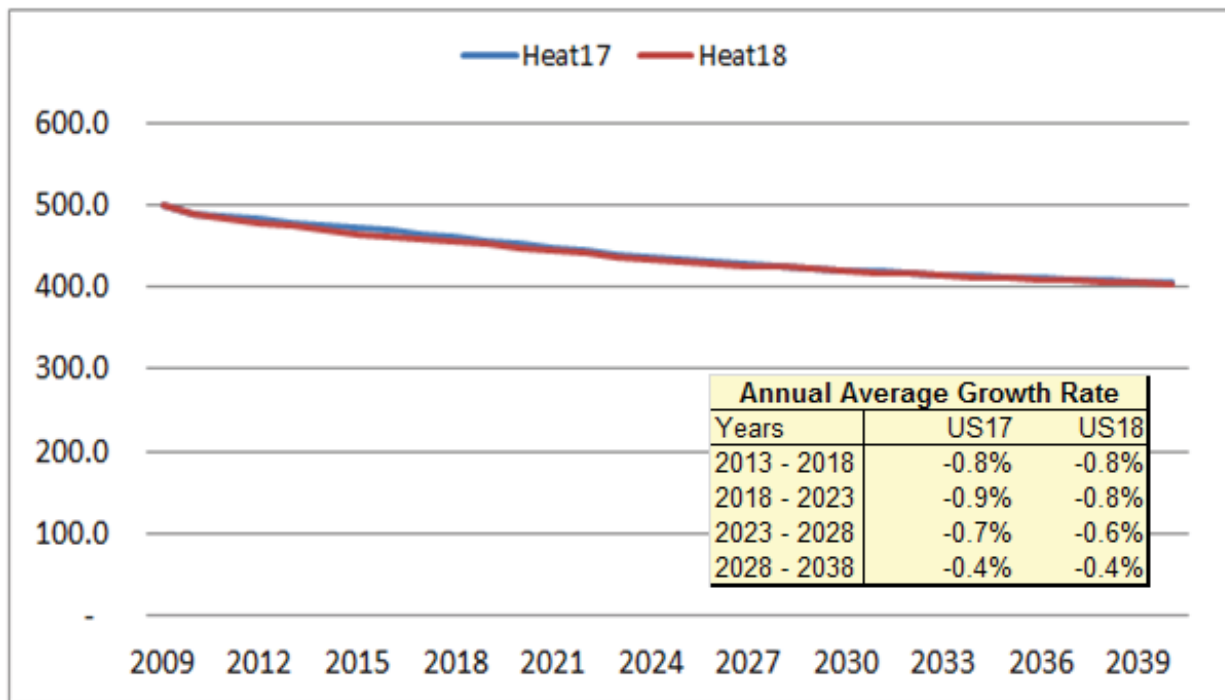
Space heating and water heating account for 95% of residential natural gas usage, with cooking and clothes dryers accounting for the remainder. At the U.S. level, roughly 50% of households have gas space and water heating. The share of homes with gas space heat has been relatively constant and is expected to increase just slightly over the next 20 years.

Gas Heating

Over the last 10 years, there have been significant improvements in heating system efficiency. With a relatively flat saturation, gas heating use declines as improvements in efficiency continue. Residential gas heat intensity has averaged 0.7% decline over the last 10 years.

Figure 16 compares the 2017 and 2018 gas heating intensity projections.

Figure 16: Heating Intensity (Therms/household)



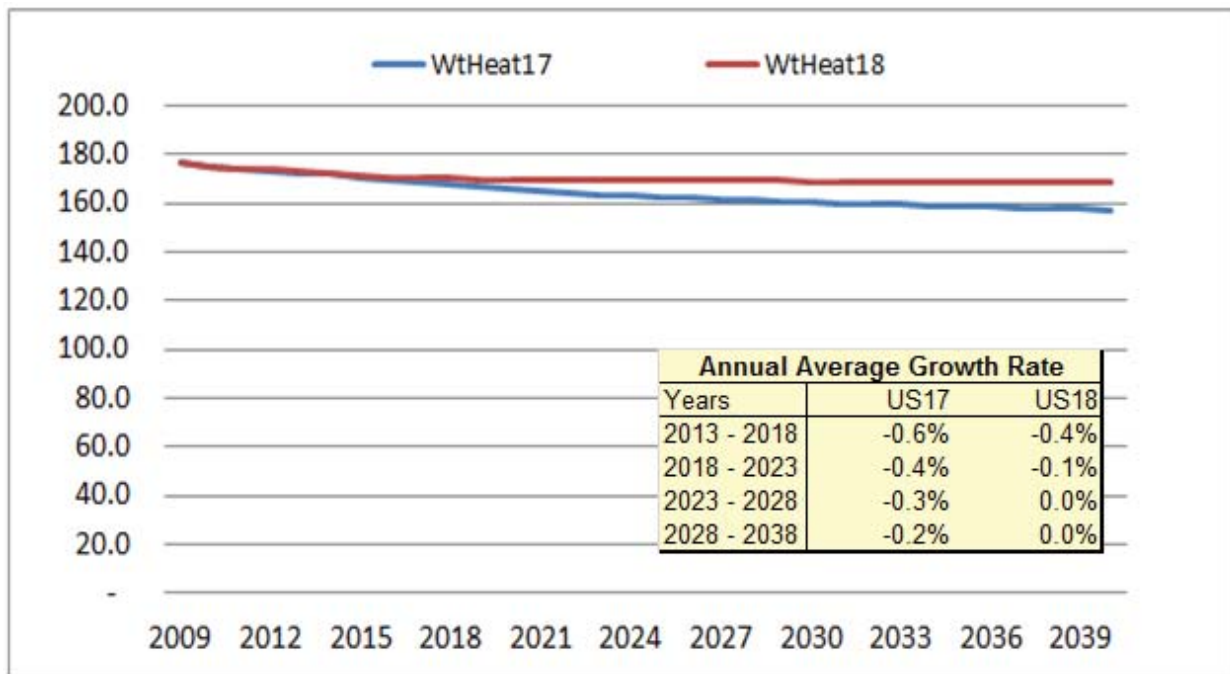
There is little difference in heating usage between the two forecasts.



Water Heating

Water heating is the second largest gas end-use, accounting for approximately 30% of residential natural gas usage. As with furnaces and gas boilers, water heaters have seen significant improvements in energy efficiency. Because efficiency has been increasing while saturation has been flat to declining, gas water heating intensity has also been declining. Figure 17 shows the 2017 and 2018 gas water heating intensity forecast.

Figure 17: Gas Water Heating Intensity (Therms/household)

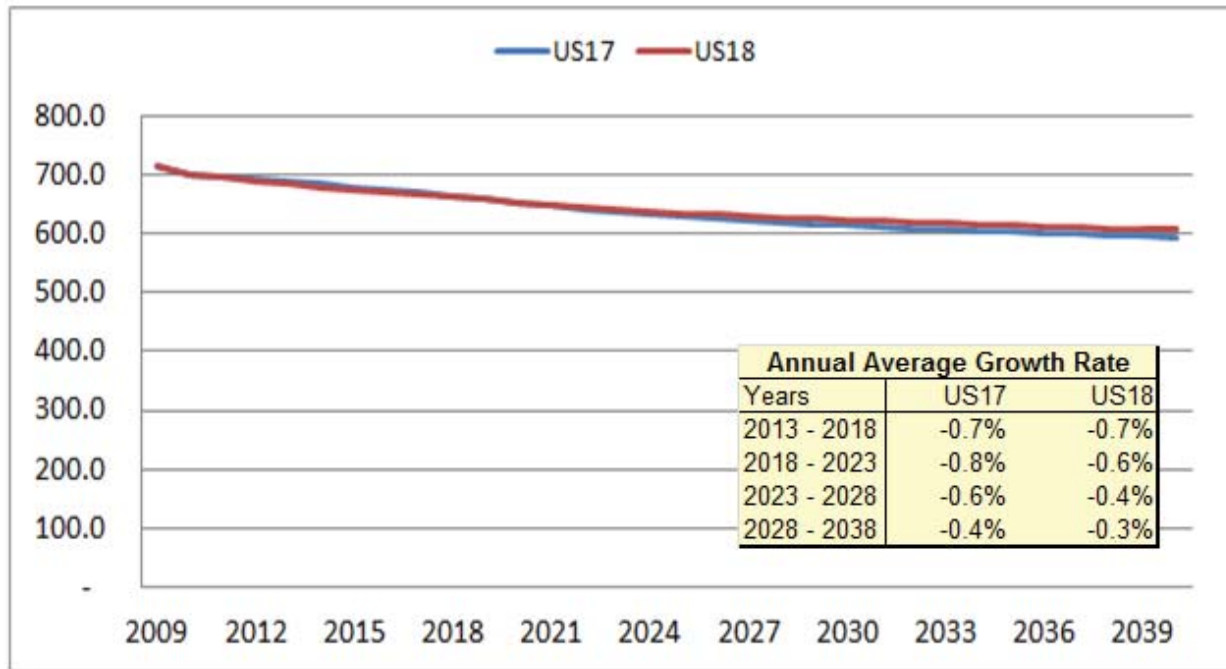


The 2017 gas water heating intensities are projected to be largely flat throughout the forecast period due to flat versus declining saturation in 2017.



Gas dryer and cooking energy intensities also decline through the forecast horizon. When all gas appliances are aggregated, total residential gas intensity averages 0.7% annual decline over the next 10 years. This is not significantly different than the previous 10 years and is slightly higher than 2017 forecast. Figure 18 shows total residential gas intensity forecast.

Figure 18: Total Residential Gas Intensity (Therms/household)



Summary

EIA’s 2018 electric end-use efficiency projections coupled with lower saturations for end-uses that competed with natural gas results in EIA’s lowest end-use intensity projections to date. For those that incorporate the end-use intensities into residential SAE models you will likely see lower residential sales forecasts than in prior years. The lower intensities can partly be mitigated by using the adjusted miscellaneous intensity incorporated in the SAE spreadsheets. The 2018 projected intensities will likely be adjusted upwards once we are able to back out the EE program savings assumptions. We plan on a second 2018 release hopefully by the end of the summer.



In 2019 we are likely to see another significant change in end-use intensities as EIA updates the long-term forecast to based on the 2015 RECS. This will also require a major effort on our part to integrate past RECS surveys and estimated stock efficiency into a new historical set of saturation, efficiency, and intensites. Given the coming changes, and our concerns with the current 2018 indices, it would not be unreasonable to continue using the 2017 indices in any near-term forecast development work.

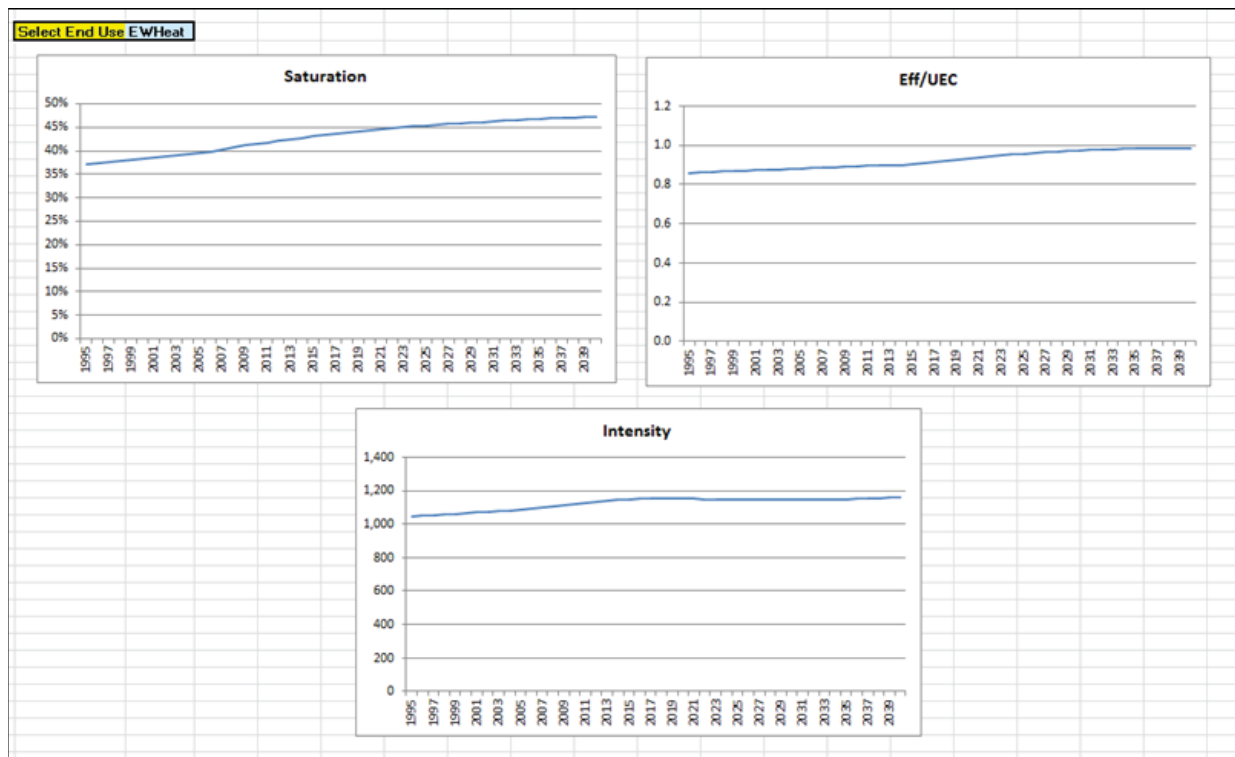


Appendix A: Using the SAE Spreadsheets

Updates to the SAE Spreadsheets

Itron continually works to simplify and improve the SAE spreadsheets to allow analysts to view end-use intensity trends, to understand how the indices are calculated, and to customize the SAE inputs (such as end-use saturations and starting UEC) to their own service area. Last year, Itron added a new “graph” tab that allows the analyst to select an end-use and graph the end-use saturation, efficiency/UEC, and calculated intensity. Figure 19 shows this feature for electric water heaters.

Figure 19: SAE Spreadsheet End-Use Graph - Electric Water Heat





SAE Spreadsheet Organization

The SAE spreadsheets are organized to allow the analyst to calibrate end-use intensities to a specific utility service area organization where service area specific saturation and UEC estimates are available. The spreadsheet tabs include:

- **Definitions** provides descriptive information about end-uses, units and brief descriptions of the other worksheets.
- **EIAData** contains EIA efficiency, consumption, equipment stock, household, floor space and price projections.
- **Calibration** provides base year usage information. It can also be used to customize the spreadsheet to the user’s service territory. Figure 20 shows the layout of the Calibration worksheet.

Figure 20: Calibration Worksheet

	A	B	C	D	E	F	G	H	I	J	K
1	Base Year (2009)	EFurn	HPHeat	GHPHeat	SecHt	CAC	HPCool	GHPCool	RAC	EWHeat	ECook
2	Consumption (mmBtu)	295,156,965	49,006,093	3,298,852	60,466,462	469,614,726	92,426,664	4,189,994	68,043,412	428,267,637	104,815,834
3	Equipment Stock (units)	29,626,185	9,099,838	699,168	28,312,038	61,707,187	9,099,838	699,168	49,101,682	46,763,693	68,137,629
4	UEC (kWh/unit)	2.920	1.578	1.383	626	2.230	2.977	1.756	406	2.684	451
5	Share (%)	26.0%	8.0%	0.6%	23.4%	54.2%	8.0%	0.6%	43.1%	41.1%	59.9%
6	Raw Intensity (kWh/year)	760	126	8	147	1,209	238	11	175	1,103	270
7	Model-Scaled Intensity (kWh/year)	760	126	8	147	1,209	238	11	175	1,103	270
8											
9	Observed Use Per Customer (kWh/year)	11,909									
10	Adjustment Factor	1.010									
11	Adjusted Intensity (kWh/year)	768	127	9	148	1,222	240	11	177	1,114	273
12											
13	XHeat	1.000									
14	XCool	1.000									
15	XOther	1.000									
16											

Base-year use-per-customer (kWh) for the utility service area is depicted in Row 9 and can be used to calibrate the spreadsheet to the user’s service territory. To do this, substitute your weather-normalized average use for the Census Division average-use in Cell B9.

In additional to basic calibration to observed usage, in 2017 we have also added another layer of calibration to better tailor the regional data to utility-specific conditions. In order to get better starting estimates of electric usage by end-use, we have utilized MetrixND models to “true up” EIA estimates to the regions. You can do this on the utility level by substituting the adjustment factors in cells B13-15 with estimated coefficients on SAE variables in your residential model. Figure 21 below provides an example.



Figure 21: Model-Based Calibration

	A	B	C	D	E	F	G	H	I	J	K
1	Base Year (2009)	EFurn	HPHeat	GHPHeat	SecHt	CAC	HPCool	GHPCool	RAC	EWHeat	ECook
2	Consumption (mmBtu)	295,156,965	49,006,093	3,298,852	60,466,462	469,614,726	92,426,664	4,189,994	68,043,412	428,267,637	104,815,834
3	Equipment Stock (units)	29,626,185	9,099,838	699,168	28,312,038	61,707,187	9,099,838	699,168	49,101,682	46,763,693	68,137,629
4	UEC (kWh/unit)	2,920	1,578	1,383	626	2,230	2,977	1,756	406	2,684	451
5	Share (%)	26.0%	8.0%	0.6%	23.4%	54.2%	8.0%	0.6%	43.1%	41.1%	59.9%
6	Raw Intensity (kWh/year)	760	126	8	147	1,209	238	11	175	1,103	270
7	Model-Scaled Intensity (kWh/year)	1,853	308	21	358	2,389	470	21	346	677	166
8											
9	Observed Use Per Customer (kWh/year)	11,909									
10	Adjustment Factor	0.999									
11	Adjusted Intensity (kWh/year)	1,852	307	21	357	2,387	470	21	346	677	166
12											
13	XHeat	2.438									
14	XCool	1.975									
15	XOther	0.614									
16											

In this case, model-based calibration adjusts heating and cooling starting year usage up based on model coefficients estimated from observed use per customer data. Other usage is adjusted downward.

Resulting end-use intensities are written to the Intensities tab. MetrixND project files can link to the Intensities tab as the source-data for the constructing of SAE model variables.

StructuralVars

This worksheet contains data about the size of homes and their building shell efficiencies. The results of the calculations on this tab are used in the development of energy intensities for heating and cooling end-uses.

Analysts can substitute local household and floor space estimates for the regional estimates to reflect local conditions in the final energy intensities. Total floor space can be modified in Column E and number of households in Column I.

Shares

The Shares tab contains historical saturation estimates and forecasts developed by the EIA. Data from appliance saturation surveys can be used to modify the default saturations. Depending on data availability, these changes can either shift the projections up or down (one survey) or modify the growth rate in the trends (two or more surveys).



Efficiencies

The Efficiencies tab provides historical and forecasted end-use efficiency. UEC estimates are used as a proxy for efficiency where specific technology efficiency data (as central air conditioner SEER) are not available. Efficiency trends can also be modified to reflect the utility service area. As a practical matter however, average efficiency for most equipment varies little between regions.

Intensities

Intensities are per-household end-use energy estimate derived from combining end-use saturation, efficiency, and starting UEC. If the user changes saturation and/or efficiency, the changes are reflected in the end-use intensity calculations.

MonthlyMults

This tab provides seasonal multipliers for non-HVAC end-uses. This allows us to accurately gauge seasonal usage for such non weather-sensitive end-uses as water heating, refrigeration and lighting.

Graphs

The Graphs tab provides an interface to select an end-use and view historical and projected end-use saturation, efficiency (or UEC where an efficiency measure is not available) and resulting end-use intensity.

EV

Electric vehicle load is added to the base (other) end-use in the SAE model. Input data rows are highlighted in red and include:

- **Households** - Historical and forecasted number of households (column B)
- **EVSold** - Number of EV vehicles sold in any given year (column C)
- **EVDecay** - Number of EV vehicles removed (column D)
- **AnnualMiles** - Annual average miles driven (column G)
- **MilePerKwh** - Average vehicle efficiency (column H)

Additional columns include:



- **EVStock** - Calculated as the sum of all new purchases minus vehicle decay (column E).
- **Share** - The share of households with EVs (column F), calculated as $EVStock / Households$.
- **UEC** - The Unit Energy Consumption (kWh) for those households that own an EV. Calculated as the number of miles driven divided by the average vehicle miles per kWh (column I).
- **ShareUEC** - Use per household (column K), calculated by multiplying the vehicle UEC and the share of households that own an EV. The resulting annual EV energy intensity is on a kWh per household basis and can be added to the base or *other use index* in the SAE model.

PV

The SAE spreadsheets also include a worksheet for calculating PV (photovoltaic) energy impacts. Input data rows are highlighted in red and include:

- **Households** - Historical and forecasted Households or customers (column B)
- **PVInstalls** - Number of new PV installations (column C)
- **AvgPVSize** - Average PV kW capacity (column E)
- **PVDecayKW** - PV capacity decay in kW (column G)
- **CapacityFactor** - Capacity Factor (column I)

Additional columns include:

- **PVStockKW** - Estimated PV kW capacity (column H), calculated by summing current and all past PV installed capacity and subtracting the decay, calculated as:

$$(PVInstalls \times AvgPVSize) - PVDecayKW$$
- **PVEnergy** - PV MWh (column J) is derived by applying the capacity factor to the PV Capacity Stock, calculated as:

$$(PVStockKW \times 8760 \times CapacityFactor) / 1000$$
- **ShareUEC** - Final PV energy intensity (column K) is derived by dividing *PVEnergy* by total number of households. The estimate is negative, as it represents a load reduction.



Appendix B: Residential SAE Modeling Framework

The traditional approach to forecasting monthly sales for a customer class is to develop an econometric model that relates monthly sales to weather, seasonal variables, and economic conditions. Econometric models are well suited to identifying historical trends and to projecting these trends into the future. In contrast, end-use models are able to identify and isolate the end-use factors that are driving energy use. By incorporating end-use structure into an econometric model, the statistically adjusted end-use (SAE) modeling framework exploits the strengths of both approaches.

There are several advantages to this approach.

- The equipment efficiency and saturation trends, dwelling square footage, and thermal integrity changes embodied in the long-run end-use forecasts are introduced explicitly into the short-term monthly sales forecast. This provides a strong bridge between the two forecasts.
- By explicitly incorporating trends in equipment saturations, equipment efficiency, dwelling square footage, and thermal integrity levels, it is easier to explain changes in usage levels and changes in weather-sensitivity over time.
- Data for short-term models are often not sufficiently robust to support estimation of a full set of price, economic, and demographic effects. By bundling these factors with equipment-oriented drivers, a rich set of elasticities can be incorporated into the final model.

This section describes this approach, the associated supporting SAE spreadsheets, and the *MetrixND* project files that are used in the implementation. The main source of the SAE spreadsheets is the 2017 Annual Energy Outlook (AEO) database provided by the Energy Information Administration (EIA).



Statistically Adjusted End-Use Modeling Framework

The statistically adjusted end-use modeling framework begins by defining energy use ($USE_{y,m}$) in year (y) and month (m) as the sum of energy used by heating equipment ($Heat_{y,m}$), cooling equipment ($Cool_{y,m}$), and other equipment ($Other_{y,m}$). Formally,

$$USE_{y,m} = Heat_{y,m} + Cool_{y,m} + Other_{y,m} \quad (1)$$

Although monthly sales are measured for individual customers, the end-use components are not. Substituting estimates for the end-use elements gives the following econometric equation.

$$USE_m = a + b_1 \times XHeat_m + b_2 \times XCool_m + b_3 \times XOther_m + \varepsilon_m \quad (2)$$

$XHeat_m$, $XCool_m$, and $XOther_m$ are explanatory variables constructed from end-use information, dwelling data, weather data, and market data. As will be shown below, the equations used to construct these X-variables are simplified end-use models, and the X-variables are the estimated usage levels for each of the major end uses based on these models. The estimated model can then be thought of as a statistically adjusted end-use model, where the estimated slopes are the adjustment factors.

Constructing $XHeat$

As represented in the SAE spreadsheets, energy use by space heating systems depends on the following types of variables.

- Heating degree days
- Heating equipment saturation levels
- Heating equipment operating efficiencies
- Average number of days in the billing cycle for each month
- Thermal integrity and footage of homes
- Average household size, household income, and energy prices

The heating variable is represented as the product of an annual equipment index and a monthly usage multiplier:

$$XHeat_{y,m} = HeatIndex_{y,m} \times HeatUse_{y,m} \quad (3)$$



Where:

- $XHeat_{y,m}$ is estimated heating energy use in year (y) and month (m)
- $HeatIndex_{y,m}$ is the monthly index of heating equipment
- $HeatUse_{y,m}$ is the monthly usage multiplier

The heating equipment index is defined as a weighted average across equipment types of equipment saturation levels normalized by operating efficiency levels. Given a set of fixed weights, the index will change over time with changes in equipment saturations (Sat), operating efficiencies (Eff), building structural index ($StructuralIndex$), and energy prices. Formally, the equipment index is defined as:

$$HeatIndex_y = StructuralIndex_y \times \sum_{Type} Weight^{Type} \times \frac{\left(\frac{Sat_y^{Type}}{Eff_y^{Type}} \right)}{\left(\frac{Sat_{09}^{Type}}{Eff_{09}^{Type}} \right)} \quad (4)$$

The $StructuralIndex$ is constructed by combining the EIA’s building shell efficiency index trends with surface area estimates, and then it is indexed to the 2009 value:

$$StructuralIndex_y = \frac{BuildingShellEfficiencyIndex_y \times SurfaceArea_y}{BuildingShellEfficiencyIndex_{09} \times SurfaceArea_{09}} \quad (5)$$

The $StructuralIndex$ is defined on the $StructuralVars$ tab of the SAE spreadsheets. Surface area is derived to account for roof and wall area of a standard dwelling based on the regional average square footage data obtained from EIA. The relationship between the square footage and surface area is constructed assuming an aspect ratio of 0.75 and an average of 25% two-story and 75% single-story. Given these assumptions, the approximate linear relationship for surface area is:

$$SurfaceArea_y = 892 + 1.44 \times Footage_y \quad (6)$$



In Equation 4, 2009 is used as a base year for normalizing the index. As a result, the ratio on the right is equal to 1.0 in 2009. In other years, it will be greater than 1.0 if equipment saturation levels are above their 2009 level. This will be counteracted by higher efficiency levels, which will drive the index downward. The weights are defined as follows.

$$Weight^{Type} = \frac{Energy_{09}^{Type}}{HH_{09}} \times HeatShare_{09}^{Type} \tag{7}$$

In the SAE spreadsheets, these weights are referred to as *Intensities* and are defined on the *EIAData* tab. With these weights, the *HeatIndex* value in 2009 will be equal to estimated annual heating intensity per household in that year. Variations from this value in other years will be proportional to saturation and efficiency variations around their base values.

For electric heating equipment, the SAE spreadsheets contain two equipment types: electric resistance furnaces/room units and electric space heating heat pumps. Examples of weights for these two equipment types for the U.S. are given in Table 1.

Table 1: Electric Space Heating Equipment Weights

Equipment Type	Weight (kWh)
Electric Resistance Furnace/Room units	760
Electric Space Heating Heat Pump	126

Data for the equipment saturation and efficiency trends are presented on the *Shares* and *Efficiencies* tabs of the SAE spreadsheets. The efficiency for electric space heating heat pumps are given in terms of Heating Seasonal Performance Factor [BTU/Wh], and the efficiencies for electric furnaces and room units are estimated as 100%, which is equivalent to 3.41 BTU/Wh.

Price Impacts. In the 2007 version of the SAE models and thereafter, the Heat Index has been extended to account for the long-run impact of electric and natural gas prices. Since the Heat Index represents changes in the stock of space heating equipment, the price impacts are modeled to play themselves out over a 10-year horizon. To introduce price effects, the Heat Index as



defined by Equation 4 above is multiplied by a 10-year moving-average of electric and gas prices. The level of the price impact is guided by the long-term price elasticities:

$$HeatIndex_y = StructuralIndex_y \times \sum_{Type} Weight^{Type} \times \frac{\left(\frac{Sat_y^{Type}}{Eff_y^{Type}} \right)}{\left(\frac{Sat_{09}^{Type}}{Eff_{09}^{Type}} \right)} \times \left(TenYearMovingAverageElectric Price_{y,m} \right)^\phi \times \left(TenYearMovingAverageGas Price_{y,m} \right)^\psi \quad (8)$$

Since the trends in the Structural index (the equipment saturations and efficiency levels) are provided exogenously by the EIA, the price impacts are introduced in a multiplicative form. As a result, the long-run change in the Heat Index represents a combination of adjustments to the structural integrity of new homes, saturations in equipment and efficiency levels relative to what was contained in the base EIA long-term forecast.

Heating system usage levels are impacted on a monthly basis by several factors, including weather, household size, income levels, prices, and billing days. The estimates for space heating equipment usage levels are computed as follows:

$$HeatUse_{y,m} = \left(\frac{WgtHDD_{y,m}}{HDD_{09}} \right) \times \left(\frac{HHSize_y}{HHSize_{09}} \right)^{0.25} \times \left(\frac{Income_y}{Income_{09}} \right)^{0.20} \times \left(\frac{Elec Price_{y,m}}{Elec Price_{09,7}} \right)^\lambda \times \left(\frac{Gas Price_{y,m}}{Gas Price_{09,7}} \right)^\kappa \quad (9)$$

Where:

- *WgtHDD* is the weighted number of heating degree days in year (*y*) and month (*m*). This is constructed as the weighted sum of the current month's HDD and the prior month's HDD. The weights are 75% on the current month and 25% on the prior month.
- *HDD* is the annual heating degree days for 2009
- *HHSize* is average household size in a year (*y*)
- *Income* is average real income per household in year (*y*)
- *ElecPrice* is the average real price of electricity in month (*m*) and year (*y*)
- *GasPrice* is the average real price of natural gas in month (*m*) and year (*y*)



By construction, the $HeatUse_{y,m}$ variable has an annual sum that is close to 1.0 in the base year (2009). The first two terms, which involve billing days and heating degree days, serve to allocate annual values to months of the year. The remaining terms average to 1.0 in the base year. In other years, the values will reflect changes in the economic drivers, as transformed through the end-use elasticity parameters. The price impacts captured by the Usage equation represent short-term price response.

Constructing XCool

The explanatory variable for cooling loads is constructed in a similar manner. The amount of energy used by cooling systems depends on the following types of variables.

- Cooling degree days
- Cooling equipment saturation levels
- Cooling equipment operating efficiencies
- Average number of days in the billing cycle for each month
- Thermal integrity and footage of homes
- Average household size, household income, and energy prices

The cooling variable is represented as the product of an equipment-based index and monthly usage multiplier. That is,

$$XCool_{y,m} = CoolIndex_y \times CoolUse_{y,m} \tag{10}$$

Where

- $XCool_{y,m}$ is estimated cooling energy use in year (y) and month (m)
- $CoolIndex_y$ is an index of cooling equipment
- $CoolUse_{y,m}$ is the monthly usage multiplier

As with heating, the cooling equipment index is defined as a weighted average across equipment types of equipment saturation levels normalized by operating efficiency levels. Formally, the cooling equipment index is defined as:



$$CoolIndex_y = StructuralIndex_y \times \sum_{Type} Weight^{Type} \times \frac{\left(\frac{Sat_y^{Type}}{Eff_y^{Type}} \right)}{\left(\frac{Sat_{09}^{Type}}{Eff_{09}^{Type}} \right)} \quad (11)$$

Data values in 2009 are used as a base year for normalizing the index, and the ratio on the right is equal to 1.0 in 2009. In other years, it will be greater than 1.0 if equipment saturation levels are above their 2009 level. This will be counteracted by higher efficiency levels, which will drive the index downward. The weights are defined as follows.

$$Weight^{Type} = \frac{Energy_{09}^{Type}}{HH_{09}} \times CoolShare_{09}^{Type} \quad (12)$$

In the SAE spreadsheets, these weights are referred to as *Intensities* and are defined on the *EIADData* tab. With these weights, the *CoolIndex* value in 2009 will be equal to estimated annual cooling intensity per household in that year. Variations from this value in other years will be proportional to saturation and efficiency variations around their base values.

For cooling equipment, the SAE spreadsheets contain three equipment types: central air conditioning, space cooling heat pump, and room air conditioning. Examples of weights for these three equipment types for the U.S. are given in Table 2.

Table 2: Space Cooling Equipment Weights

Equipment Type	Weight (kWh)
Central Air Conditioning	1,209
Space Cooling Heat Pump	238
Room Air Conditioning	175

The equipment saturation and efficiency trends data are presented on the *Shares* and *Efficiencies* tabs of the SAE spreadsheets. The efficiency for space cooling heat pumps and central air conditioning (A/C) units are given in terms of Seasonal Energy Efficiency Ratio [BTU/Wh], and room A/C units efficiencies are given in terms of Energy Efficiency Ratio [BTU/Wh].



Price Impacts. In the 2007 SAE models and thereafter, the Cool Index has been extended to account for changes in electric and natural gas prices. Since the Cool Index represents changes in the stock of space heating equipment, it is anticipated that the impact of prices will be long-term in nature. The Cool Index as defined Equation 11 above is then multiplied by a 10-year moving average of electric and gas prices. The level of the price impact is guided by the long-term price elasticities.

$$CoolIndex_y = StructuralIndex_y \times \sum_{Type} Weight^{Type} \times \frac{\left(\frac{Sat_y^{Type}}{Eff_y^{Type}} \right)}{\left(\frac{Sat_{09}^{Type}}{Eff_{09}^{Type}} \right)} \times \left(TenYearMovingAverageElectric Price_{y,m} \right)^\phi \times \left(TenYearMovingAverageGas Price_{y,m} \right)^\gamma \quad (13)$$

Since the trends in the Structural index, equipment saturations and efficiency levels are provided exogenously by the EIA, price impacts are introduced in a multiplicative form. The long-run change in the Cool Index represents a combination of adjustments to the structural integrity of new homes, saturations in equipment and efficiency levels. Without a detailed end-use model, it is not possible to isolate the price impact on any one of these concepts.

Cooling system usage levels are impacted on a monthly basis by several factors, including weather, household size, income levels, and prices. The estimates of cooling equipment usage levels are computed as follows:

$$CoolUse_{y,m} = \left(\frac{WgtCDD_{y,m}}{CDD_{09}} \right) \times \left(\frac{HHSize_y}{HHSize_{09}} \right)^{0.25} \times \left(\frac{Income_y}{Income_{09}} \right)^{0.20} \times \left(\frac{Elec Price_{y,m}}{Elec Price_{09}} \right)^\lambda \times \left(\frac{Gas Price_{y,m}}{Gas Price_{09}} \right)^\kappa \quad (14)$$

Where:

- *WgtCDD* is the weighted number of cooling degree days in year (*y*) and month (*m*). This is constructed as the weighted sum of the current month's CDD and the prior month's CDD. The weights are 75% on the current month and 25% on the prior month.



- *CDD* is the annual cooling degree days for 2009.

By construction, the *CoolUse* variable has an annual sum that is close to 1.0 in the base year (2009). The first two terms, which involve billing days and cooling degree days, serve to allocate annual values to months of the year. The remaining terms average to 1.0 in the base year. In other years, the values will change to reflect changes in the economic driver changes.

Constructing *XOther*

Monthly estimates of non-weather sensitive sales can be derived in a similar fashion to space heating and cooling. Based on end-use concepts, other sales are driven by:

- Appliance and equipment saturation levels
- Appliance efficiency levels
- Average number of days in the billing cycle for each month
- Average household size, real income, and real prices

The explanatory variable for other uses is defined as follows:

$$XOther_{y,m} = OtherEqIndex_{y,m} \times OtherUse_{y,m} \tag{15}$$

The first term on the right hand side of this expression (*OtherEqIndex_y*) embodies information about appliance saturation and efficiency levels and monthly usage multipliers. The second term (*OtherUse*) captures the impact of changes in prices, income, household size, and number of billing-days on appliance utilization.

End-use indices are constructed in the SAE models. A separate end-use index is constructed for each end-use equipment type using the following function form.



$$\begin{aligned}
ApplianceIndex_{y,m} = & Weight^{Type} \times \left(\frac{Sat_y^{Type}}{\frac{1}{UEC_y^{Type}}} \right) \times MoMult_m^{Type} \times \\
& \left(\frac{Sat_{09}^{Type}}{\frac{1}{UEC_{09}^{Type}}} \right) \times \\
& (TenYearMovingAverageElectric Price)^\lambda \times (TenYearMovingAverageGas Price)^\kappa
\end{aligned} \tag{16}$$

Where:

- *Weight* is the weight for each appliance type
- *Sat* represents the fraction of households, who own an appliance type
- *MoMult_m* is a monthly multiplier for the appliance type in month (*m*)
- *Eff* is the average operating efficiency the appliance
- *UEC* is the unit energy consumption for appliances

This index combines information about trends in saturation levels and efficiency levels for the main appliance categories with monthly multipliers for lighting, water heating, and refrigeration.

The appliance saturation and efficiency trends data are presented on the *Shares* and *Efficiencies* tabs of the SAE spreadsheets.

Further monthly variation is introduced by multiplying by usage factors that cut across all end uses, constructed as follows:

$$\begin{aligned}
ApplianceUse_{y,m} = & \left(\frac{BDays_{y,m}}{30.44} \right) \times \left(\frac{HHSize_y}{HHSize_{09}} \right)^{0.46} \times \left(\frac{Income_y}{Income_{09}} \right)^{0.10} \times \\
& \left(\frac{Elec Price_{y,m}}{Elec Price_{09}} \right)^\phi \times \left(\frac{Gas Price_{y,m}}{Gas Price_{09}} \right)^\lambda
\end{aligned} \tag{17}$$

The index for other uses is derived then by summing across the appliances:

$$OtherEqpIndex_{y,m} = \sum_k ApplianceIndex_{y,m} \times ApplianceUse_{y,m} \tag{18}$$



Supporting Spreadsheets and MetrixND Project Files

The SAE approach described above has been implemented for each of the nine Census Divisions. A mapping of states to Census Divisions is presented in Figure 22. This section describes the contents of each file and a procedure for customizing the files for specific utility data. A total of 18 files are provided. These files are listed in Table 3.

Figure 22: Mapping of States to Census Divisions

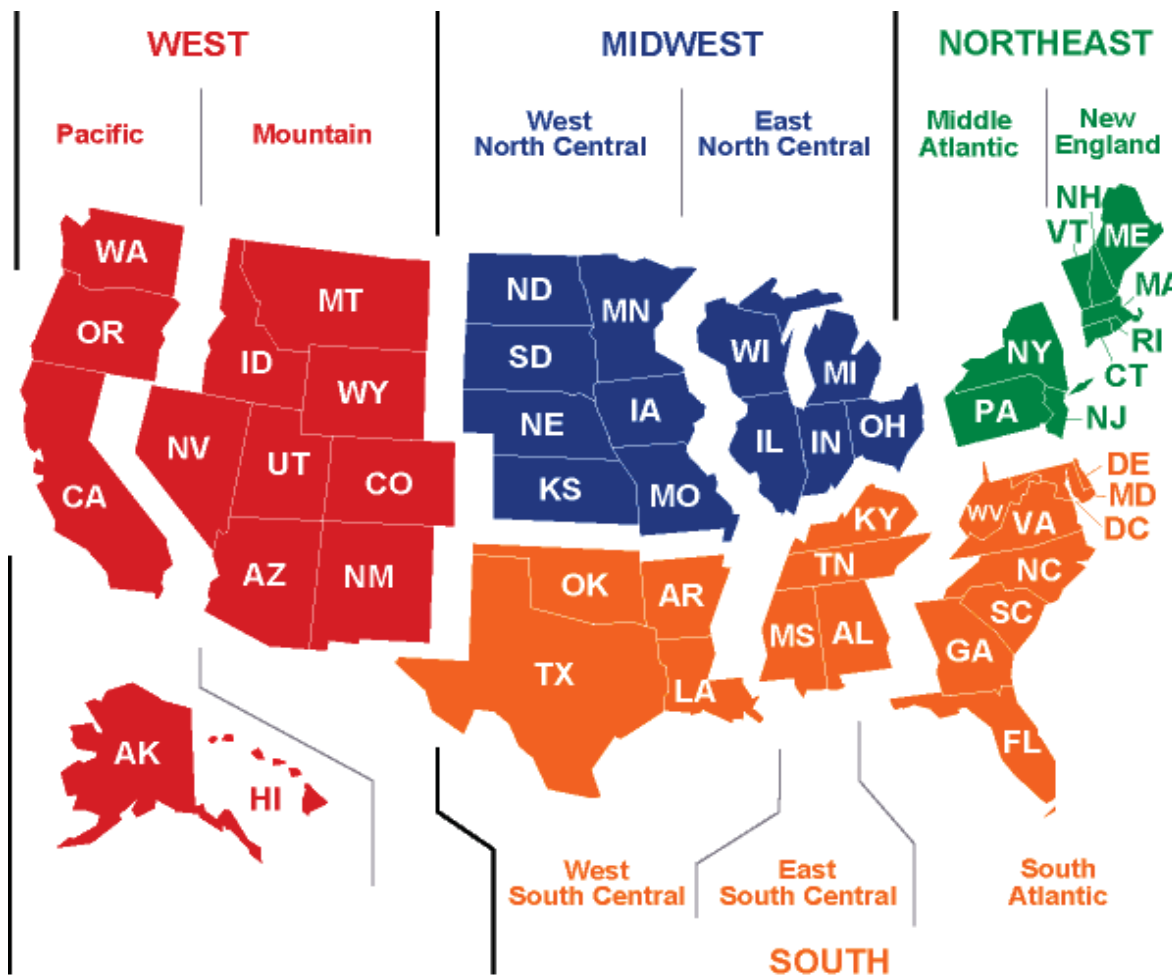


Table 3: List of SAE Files

Spreadsheet	MetrixND Project File
NewEngland.xls	SAE_NewEngland.ndm
MiddleAtlantic.xls	SAE_MiddleAtlantic.ndm
EastNorthCentral.xls	SAE_EastNorthCentral.ndm



WestNorthCentral.xls	SAE_WestNorthCentral.ndm
SouthAtlantic.xls	SAE_SouthAltantic.ndm
EastSouthCentral.xls	SAE_EastSouthCentral.ndm
WestSouthCentral.xls	SAE_WestSouthCentral.ndm
Mountain.xls	SAE_Mountain.ndm
Pacific.xls	SAE_Pacific.ndm

As defaults, the SAE spreadsheets include regional data, but utility data can be entered to generate the *Heat*, *Cool*, and *Other* equipment indices used in the SAE approach. The *MetrixND* project files link to the data in these spreadsheets. These project files calculate the end-use *Usage* variables are constructed and the estimated SAE models.

Each of the nine SAE spreadsheets contains the following tabs:

- **Definitions** - Contains equipment, end use, worksheet, and Census Division definitions.
- **Intensities** - Calculates the annual equipment indices.
- **Shares** - Contains historical and forecasted equipment shares. The default forecasted values are provided by the EIA. The raw EIA projections are provided on the *EIAData* tab.
- **Efficiencies** - Contains historical and forecasted equipment efficiency trends. The forecasted values are based on projections provided by the EIA. The raw EIA projections are provided on the *EIAData* tab.
- **StructuralVars** - Contains historical and forecasted square footage, number of households, building shell efficiency index, and calculation of structural variable. The forecasted values are based on projections provided by the EIA.
- **Calibration** - This tab contains calculations of the base year *Intensity* values used to weight the equipment indices.
- **EIAData** - Contains the raw forecasted data provided by the EIA.
- **MonthlyMults** - Contains monthly multipliers that are used to spread the annual equipment indices across the months.
- **EV** - Worksheet for incorporating electric vehicle (EV) impacts.
- **PV** - Worksheet for incorporating photovoltaic battery (PV) impacts.

The *MetrixND* Project files are linked to the *AnnualIndices*, *ShareUEC*, and *MonthlyMults* tabs in the spreadsheets. Sales, economic, price and weather information for the Census Division is provided in the linkless data table *UtilityData*. In this way, utility specific data and the equipment indices are brought into the project file. The *MetrixND* project files contain the objects described below.



Parameter Tables

- **Elas.** This parameter table includes the values of the elasticities used to calculate the *Usage* variables for each end-use. There are five types of elasticities included on this table.
 - Economic variable elasticities
 - Short-term own price elasticities
 - Short-term cross price elasticities
 - Long-term own price elasticities
 - Long-term cross price elasticities

The short-term price elasticities drive the end-use usage equations. The long-term price elasticities drive the Heat, Cool and other appliance indices. The combined price impact is an aggregation of the short and long-term price elasticities. As such, the long-term price elasticities are input as incremental price impact. That is, the long-term price elasticity is the difference between the overall price impact and the short-term price elasticity.

Data Tables

- **AnnualEquipmentIndices** links to the *AnnualIndices* tab for heating and cooling indices, and *ShareUEC* tab for water heating, lighting, and appliances in the SAE spreadsheet.
- **UtilityData** is a linkless data table that contains sales, price, economic and weather data specific to a given Census Division.
- **MonthlyMults** links to the corresponding tab in the SAE spreadsheet.

Transformation Tables

- **EconTrans** computes the average usage, and household size, household income, and price indices used in the usage equations.
- **WeatherTrans** computes the HDD and CDD indices used in the usage equations.
- **ResidentialVars** computes the *Heat*, *Cool* and *Other Usage* variables, as well as the *XHeat*, *XCool* and *XOther* variables that are used in the regression model.
- **BinaryVars** computes the calendar binary variables that could be required in the regression model.
- **AnnualFcst** computes the annual historical and forecast sales and annual change in sales.
- **EndUseFcst** computes the monthly sales forecasts by end uses.



Models

- **ResModel** is the Statistically Adjusted End-Use Model.

Steps to Customize the Files for Your Service Territory

The files that are distributed along with this document contain regional data. If you have more accurate data for your service territory, you are encouraged to tailor the spreadsheets with that information. This section describes the steps needed to customize the files.

Minimum Customization

- Save the *MetrixND* project file and the spreadsheet into the same folder
- Select the spreadsheet and *MetrixND* project file from the appropriate Census Division
- Open the spreadsheet and navigate to the *Calibration* tab
- In cell “B9”, replace base year Census Division use-per-customer with observed use-per-customer for your service territory
- Save the spreadsheet and open the *MetrixND* project file
- Click on the *Update All Links* button on the *Menu* bar
- Review the model results

Further Customization of Starting Usage Levels

In addition to the minimum steps listed above, you can also utilize model-based calibration process described above on pages 15-16 to further fine-tune starting year usage estimates to your service territory.

Customizing the End-use Share Paths

You can also install your own share history and forecasts. To do this, navigate to the *Share* tab in the spreadsheet and paste in the values for your region. Make sure that base year shares on the *Calibration* tab reflect changes on the *Shares* tab.

Customizing the End-use Efficiency Paths

Finally, you can override the end-use efficiency paths that are contained on the *Efficiencies* tab of the spreadsheet.



Commercial Statistically Adjusted End-Use (SAE) Spreadsheets – 2018 AEO Update

The 2018 Commercial Statistically Adjusted End-Use (SAE) spreadsheets and models have been updated to reflect the Energy Information Administration’s (EIA) 2018 Annual Energy Outlook (AEO). All comparisons within this document compare the 2018 forecast with the 2017 reference case *excluding the CPP impacts*. Elements that have been updated include:

- End-use energy intensity projections
- End-use efficiency projections
- Floor stock projections
- Census Division commercial SAE project files (MetrixND)
- Revised historical saturations and efficiencies

Each year, EIA develops a long-term electric and gas forecast for the commercial sector based on an end-use model, which is a component of the National Energy Modeling System (NEMS). EIA develops forecasts for 11 commercial building types, 9 electric end-uses, and 5 natural gas end-uses. The largest electric end-uses include lighting, cooling, ventilation, refrigeration, and miscellaneous use. On the gas, heating is, by far, the largest end-use, followed by water heating, and cooking.

End-use intensities are key inputs in constructing commercial SAE model variables. End-use intensities are measured on a kWh per square foot basis and natural gas end-uses are on a therms per square foot basis. Other than miscellaneous use, intensities have been declining over the last 10 years and are expected to continue to decline over the next 20 years. The decline in energy intensities are largely driven by end-use efficiency improvements. Factors driving efficiency improvements include new building and end-use standards, the availability of more efficient technology options, declining costs for high efficient technology, and federal, state, and utility programs that encourage and subsidize the adoption of more efficient technology options and building shell improvements.

2012 CBECS Update

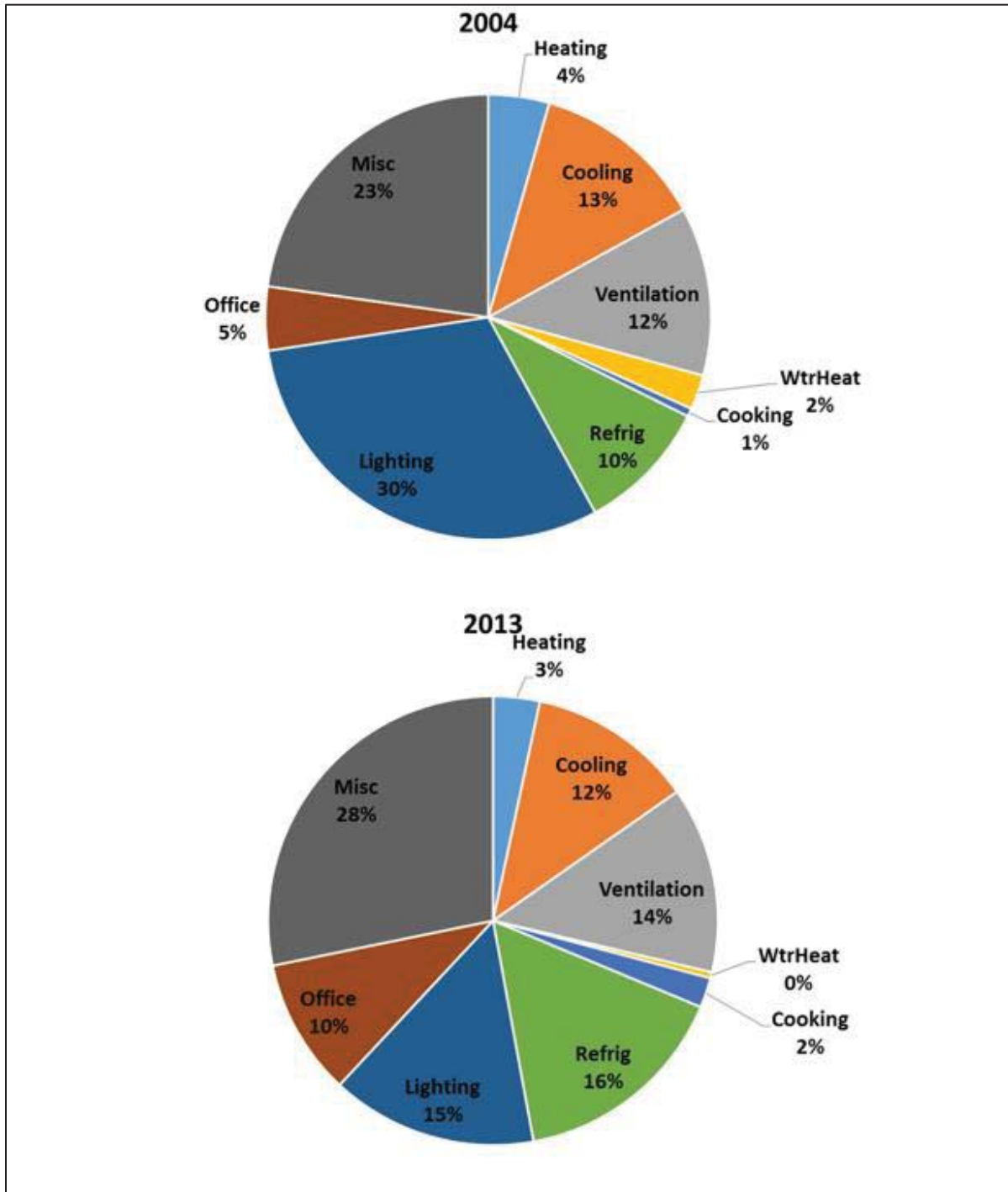
Starting in 2017, the AEO forecast has been updated to reflect the 2012 Commercial Buildings Energy Consumption Survey (CBECS). The forecast base year has been changed from 2004 to 2013. As a result, the composition of commercial building square footage as well as end-use



energy consumption has changed. The largest change has been in lighting, in 2004 lighting accounted for almost a third of total usage, by 2013 that number dropped to 15%. Lighting intensity continues to decline through the forecast period with the increased adoption of LED lighting. Figure 1 compares the distribution of end-use consumption between 2004 and 2013.



Figure 1: Base Year Electric End-Use Distribution Comparison



Where lighting has declined from 30% to 15%, the miscellaneous category has increased to represent nearly 30% of commercial use.



Electric Forecast Updates

End-use energy intensity projections are based on end-use efficiency and commercial equipment saturation. Changes in equipment stock are driven by assumptions about available technology, associated costs, energy prices, and economic conditions. Commercial electric intensities are calculated for the primary end-uses, including:

- Heating
- Cooling
- Ventilation
- Water Heating
- Cooking
- Refrigeration
- Lighting
- Office Equipment (PCs)
- Miscellaneous

Energy intensities indices provided in the SAE spreadsheets are derived from the AEO commercial forecast database. End-use intensity projections are calculated for 11 building types within 9 Census Divisions. The energy intensity (EI) is derived by dividing end-use energy consumption by square footage projections:

$$EI_{bet} = \text{Energy}_{bet} / \text{sqft}_{bt}$$

Where:

$$\begin{aligned} \text{Energy}_{bet} &= \text{Energy consumption for end-use } e, \text{ building type } b, \text{ year } t \\ \text{Sqft}_{bt} &= \text{Square footage for building type } b \text{ in year } t \end{aligned}$$

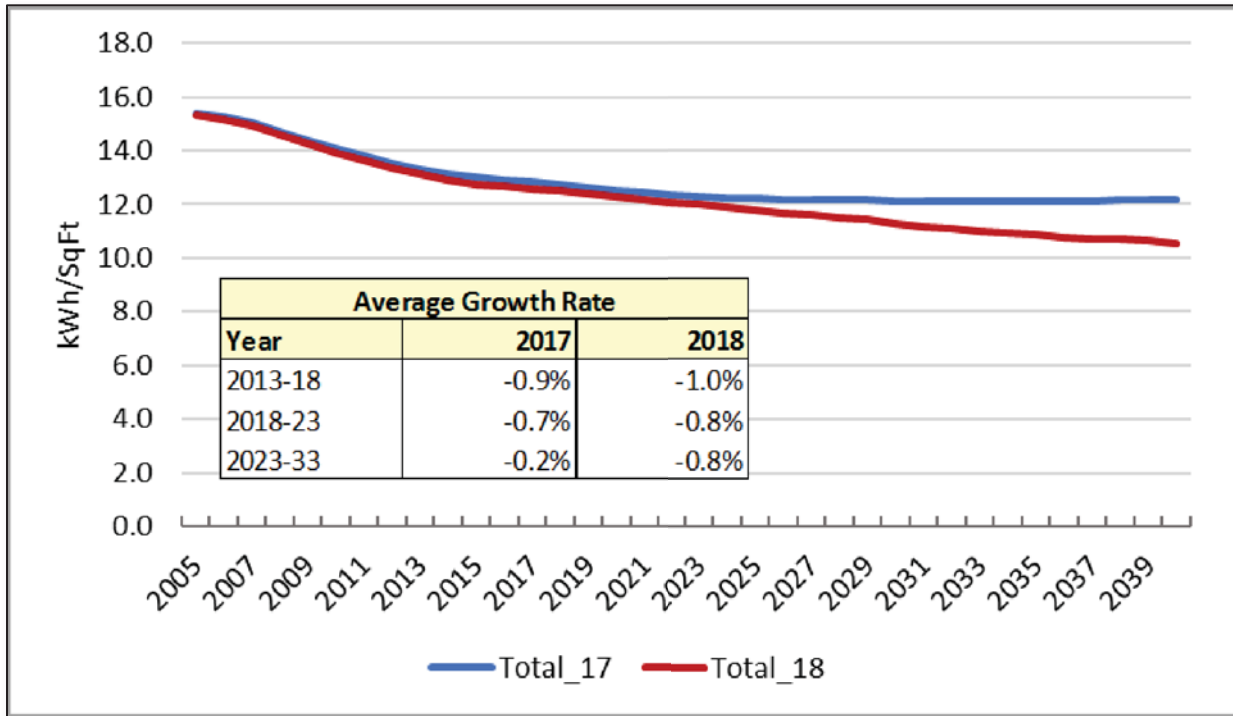
Total end-use energy intensities (across building types) are calculated as a weighted average of the building type intensities where the weights are based on building type square footage:

$$EI_{et} = \sum_b EI_{bet} \times \left(\text{sqft}_{bt} / \sum_b \text{sqft}_{bt} \right)$$

In the current forecast, EIA projects that electric intensity will decline 0.8% annually between 2018 and 2023; this is slightly faster than 0.7% decline projected in the AEO 2017 forecast. A more significant difference occurs after 2025, driven by efficiency improvement in lighting and ventilation, this is covered in greater detail in subsequent sections of this document. Figure 2 compares total commercial electric intensity projections.



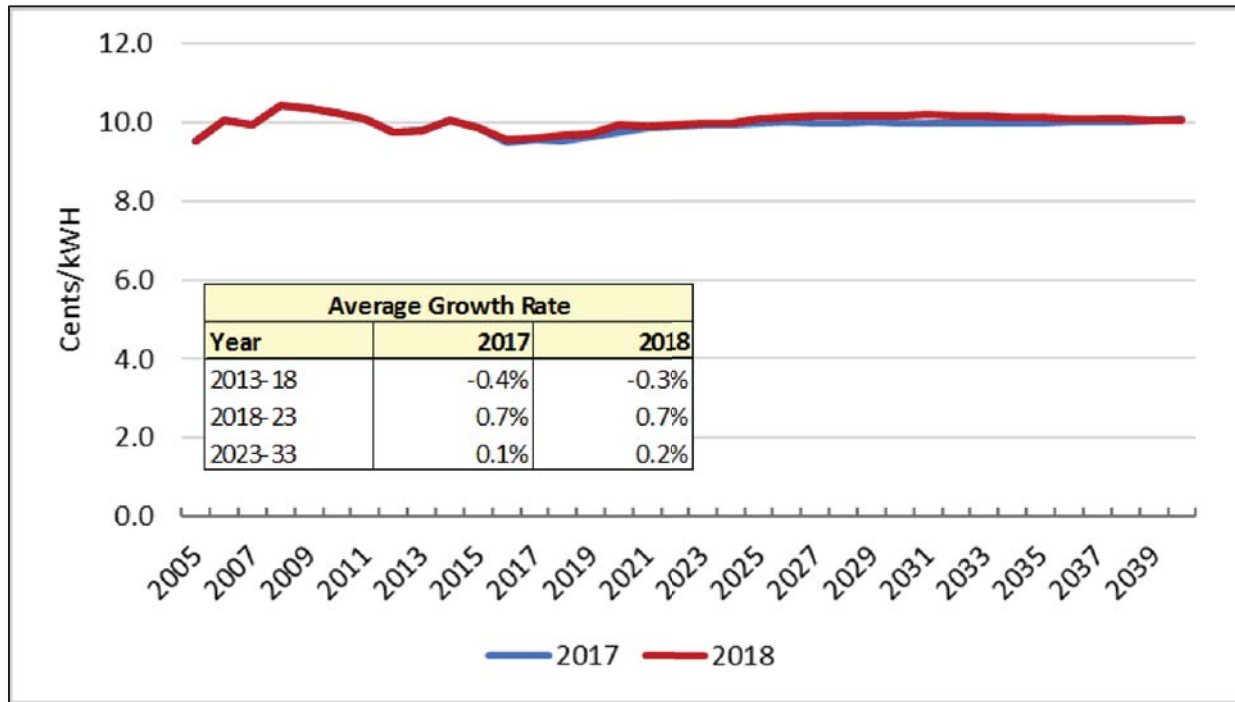
Figure 2: Total Commercial Building Electricity Intensity (kWh/SqFt)





In addition to technology options and equipment costs, energy prices are also a key factor in driving equipment efficiency choices. There is very little change in price projections from the 2017 AEO. Figure 3 compares AEO 2017 and 2018 commercial price projections.

Figure 3: Commercial Electric Prices (real cents per kWh)

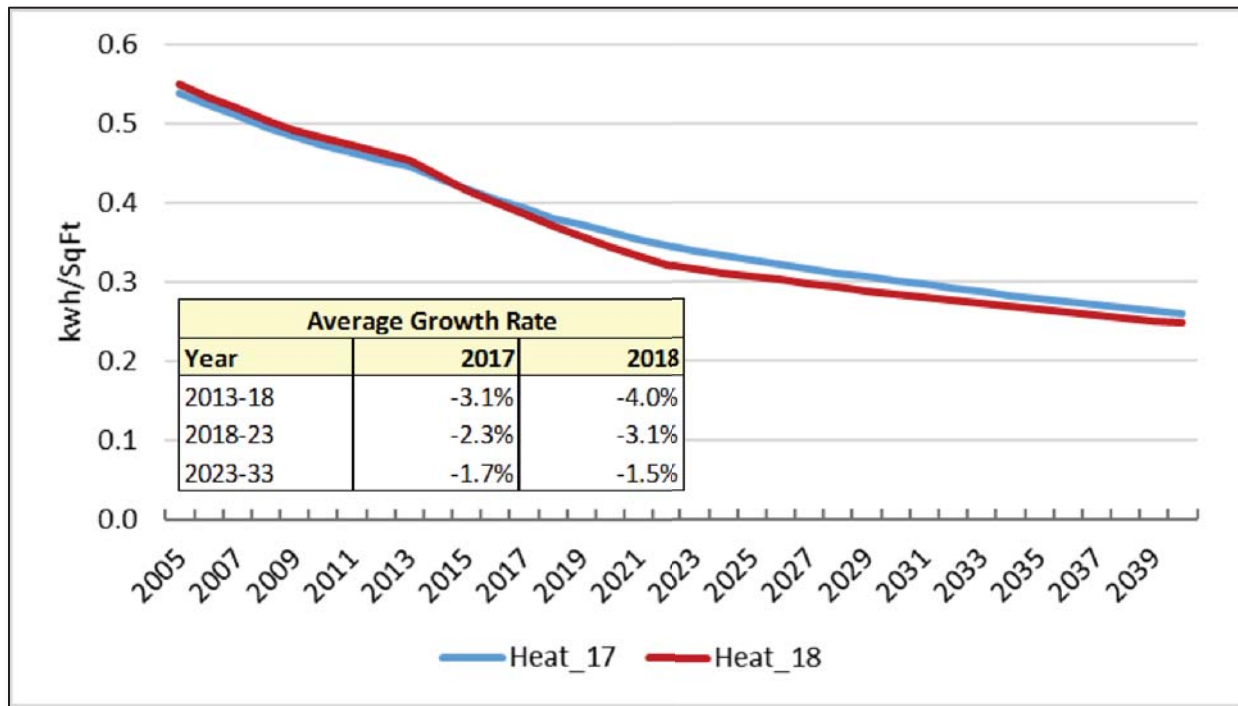




Electric Heating

Although electric heating is a relatively small end-use, heating intensity projections contribute to the overall decline in commercial building usage. Electric heating intensity declines on average 3.1% over the next five years and at a slower 1.5% after that. Heating intensities decline significantly faster than the 2017 forecast over the next five years. Figure 4 compares the 2018 and 2017 heating intensity forecasts.

Figure 4: Electric Heating Intensity (kWh/SqFt)

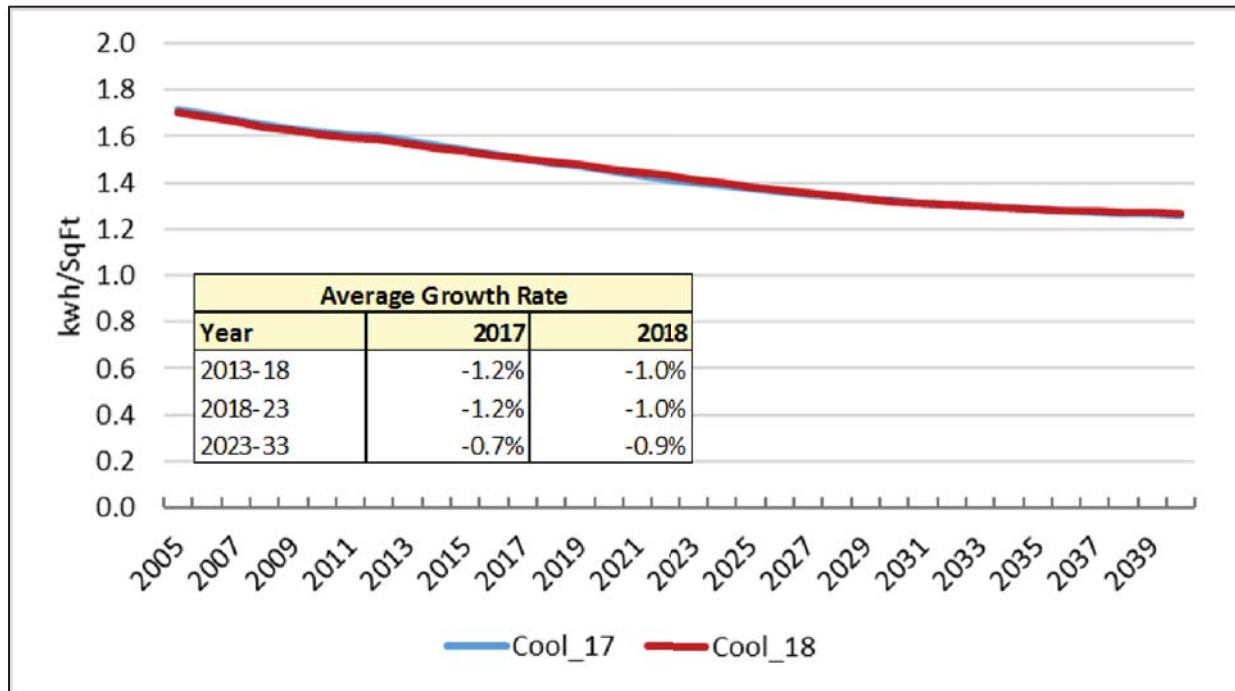




Cooling

Cooling intensity is largely unchanged from 2017 with only a small difference in the near term. Figure 5 compares AEO 2017 and AEO 2018 cooling intensity projections.

Figure 5: Cooling Intensity (kWh/SqFt)

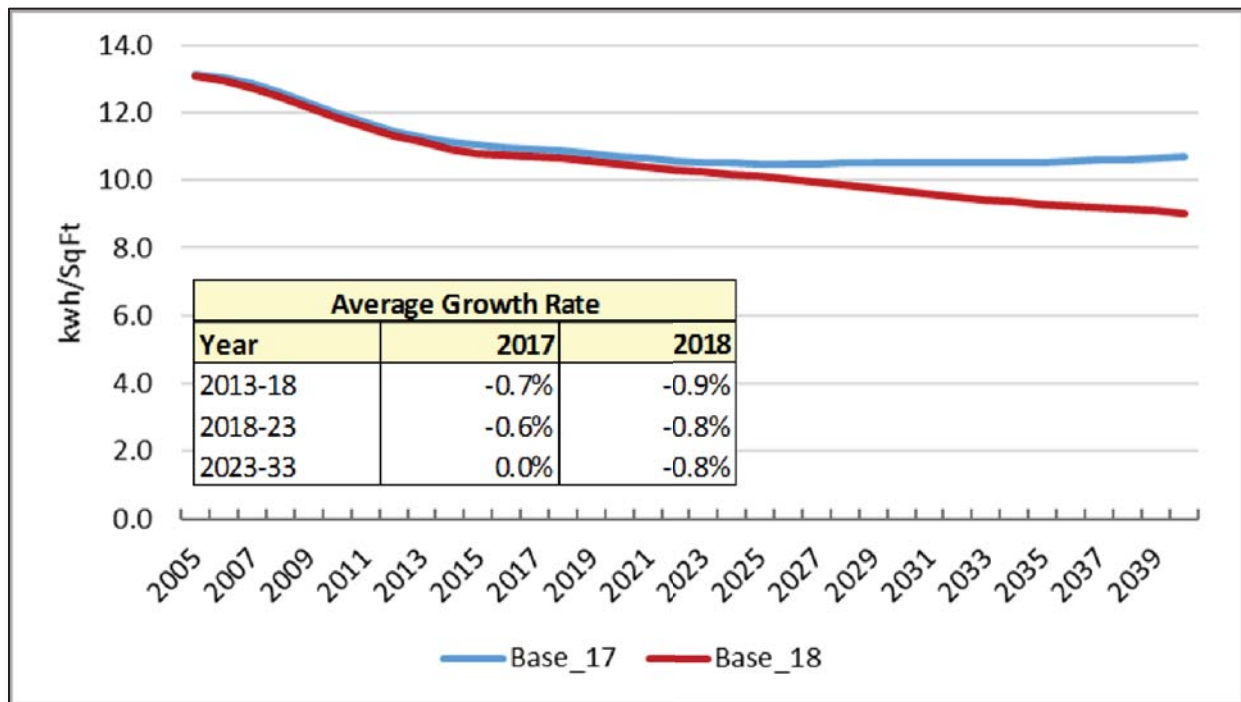




Electric Other Use

Other large electric end-uses include ventilation, refrigeration, lighting, office equipment and miscellaneous use. The aggregation of these end-use intensities is shown in Figure 6.

Figure 6: Base Intensity (kWh/SqFt)



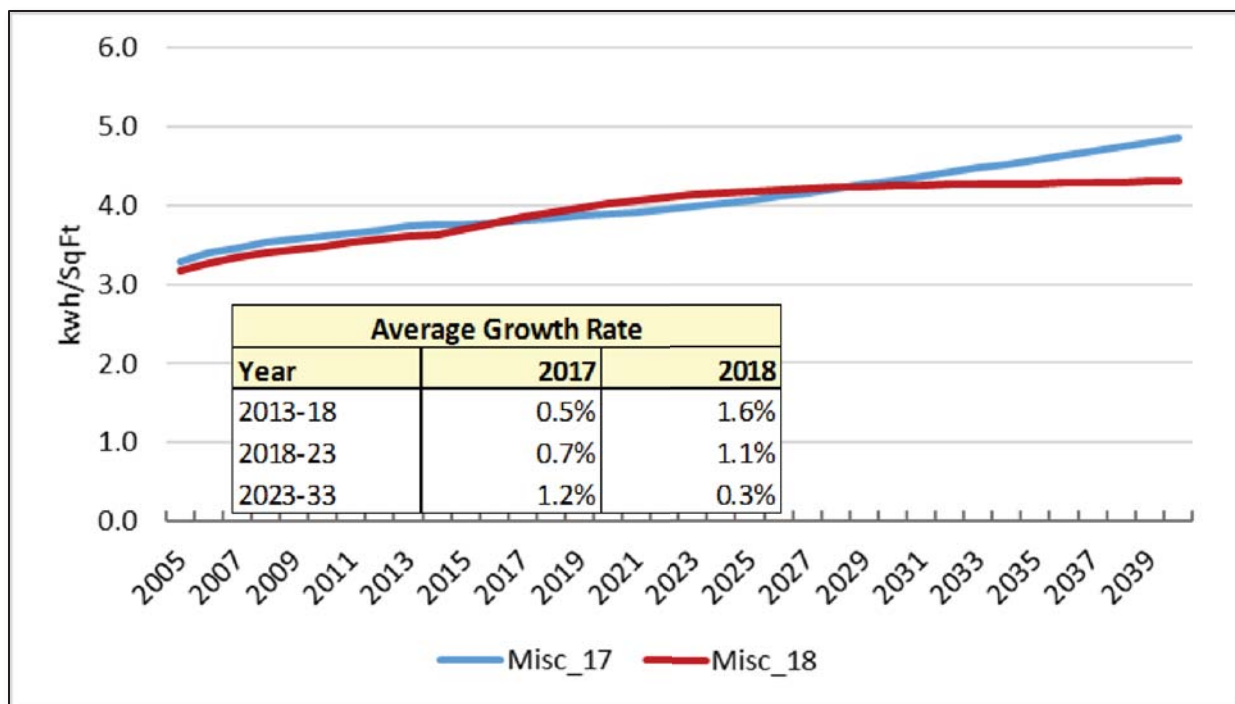
The 2018 base-use intensity declines at a significantly faster rate than the 2017 forecast. This is true for an updated historical period too. The strong base-use intensity decline is largely due to revisions to the methodology used to forecast miscellaneous consumption, and strong lighting and ventilation efficiency projections.



Miscellaneous End-Use

Approximately 30% of commercial electric use is classified as miscellaneous, which includes everything from elevator loads to medical equipment to other office plug-in loads. It is the one end-use where intensity is expected to increase. The AEO 2018 miscellaneous intensity growth is stronger in the near term but flattens after 2025. Starting with the AEO 2018 the EIA indexes miscellaneous consumption to domestic non-manufacturing gross output. In prior years, miscellaneous use was indexed to output for a few service industries. Figure 7 shows the AEO 2017 and AEO 2018 miscellaneous intensity forecasts.

Figure 7: Miscellaneous Electric Intensity (kWh/SqFt)

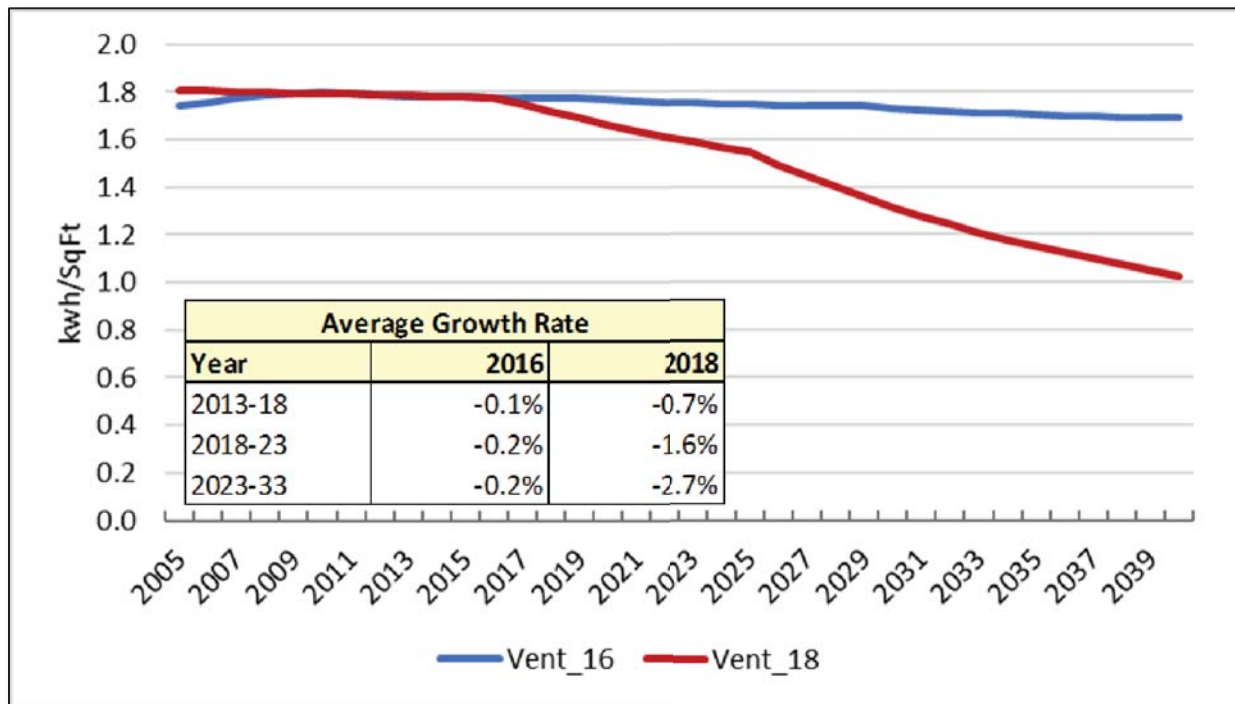




Ventilation End-Use

Ventilation accounts for rough 15% of commercial building use; it is the fourth largest commercial end-use. As commercial ventilation saturation is nearly 100 percent, changes in ventilation intensity are largely driven by changes in system efficiency. Beginning in 2017, EIA made a significant change in projected ventilation efficiency gains. EIA now projects ventilation efficiency to improve 2.0% to 3.0% per year compared with 0.2% annual improvement in the 2016 forecast. Figure 8 compares ventilation intensity projections.

Figure 8: Ventilation Intensity (kWh/SqFt)



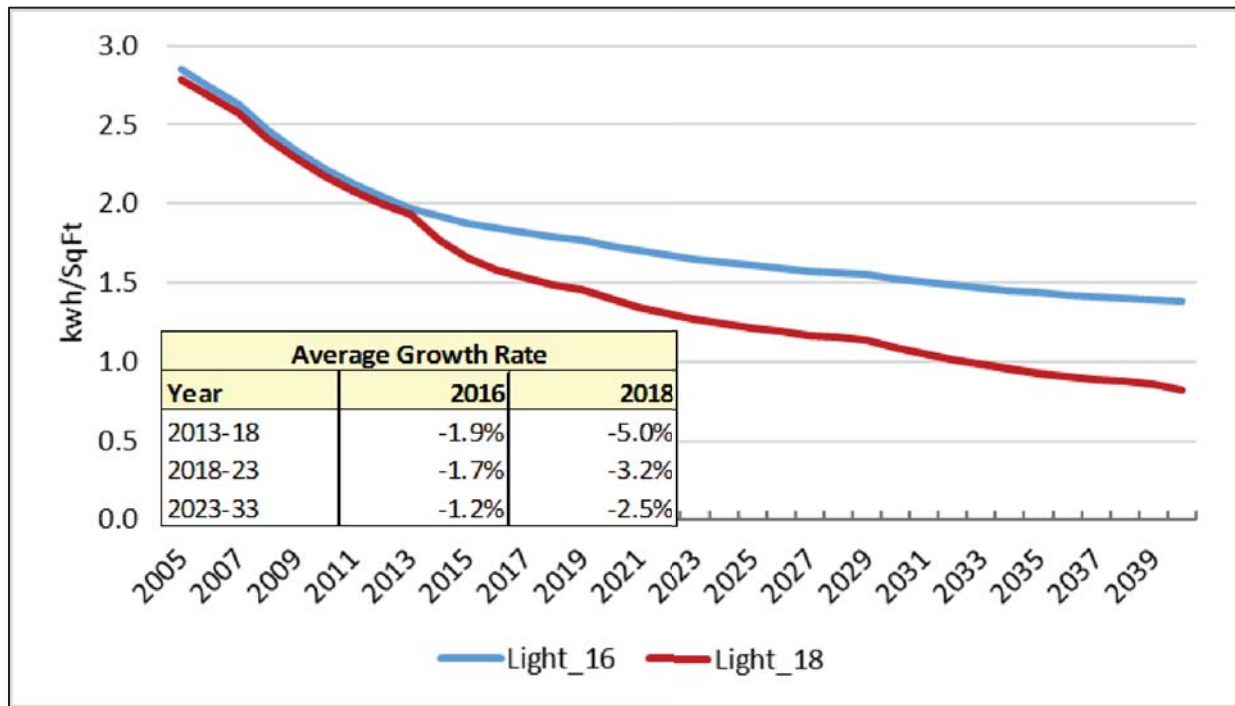
The stronger efficiency improvements assume that commercial customers will work to meet the new ASHRAE ventilation standards. Given the relative size of ventilation load, the new ventilation intensity has a significant impact on commercial sales when incorporated into the SAE forecast model. We have not been comfortable with the intensity change and to date have not incorporated the intensities into the SAE spreadsheets. This year the new ventilation intensity is included, but we are also providing the 2016 intensity. We recommend using the 2016 ventilation intensity projection until we gain a better understanding as to how the ventilation stock efficiency is calculated and can back out the embedded EE program savings.



Lighting End-Use

Commercial lighting, which in 2004 accounted for 30% of total consumption, now accounts for roughly 15% of commercial building usage. The decline in lighting as share of consumption usage has been driven by strong commercial lighting efficiency improvements. Like ventilation, starting in 2017 EIA significantly increased commercial lighting efficiency projections. Figure 9 compares the 2016 and 2018 lighting intensity projections.

Figure 9: Lighting Intensity (kWh/SqFt)



As with ventilation, 3.2% decline in average lighting intensity seems overly optimistic. It's likely that EE program savings are contributing to the strong decline. Until we can assess the impact of the embedded EE program savings, we recommend using the 2016 commercial lighting intensity projections.



Solar Adjustment

The 2018 end-use intensity forecasts also incorporate EIA’s commercial own-use solar load forecast (own-use is defined as load that displaces customer use vs. sold back to the utility). For our purposes, since most utilities have their own solar load forecast, EIA’s solar load forecast is added back in to SAE indices. The end-uses impacted by solar are cooling and miscellaneous. Figure 10 and Figure 11 compare the solar adjusted intensities.

Figure 10: Solar Adjustment Cooling

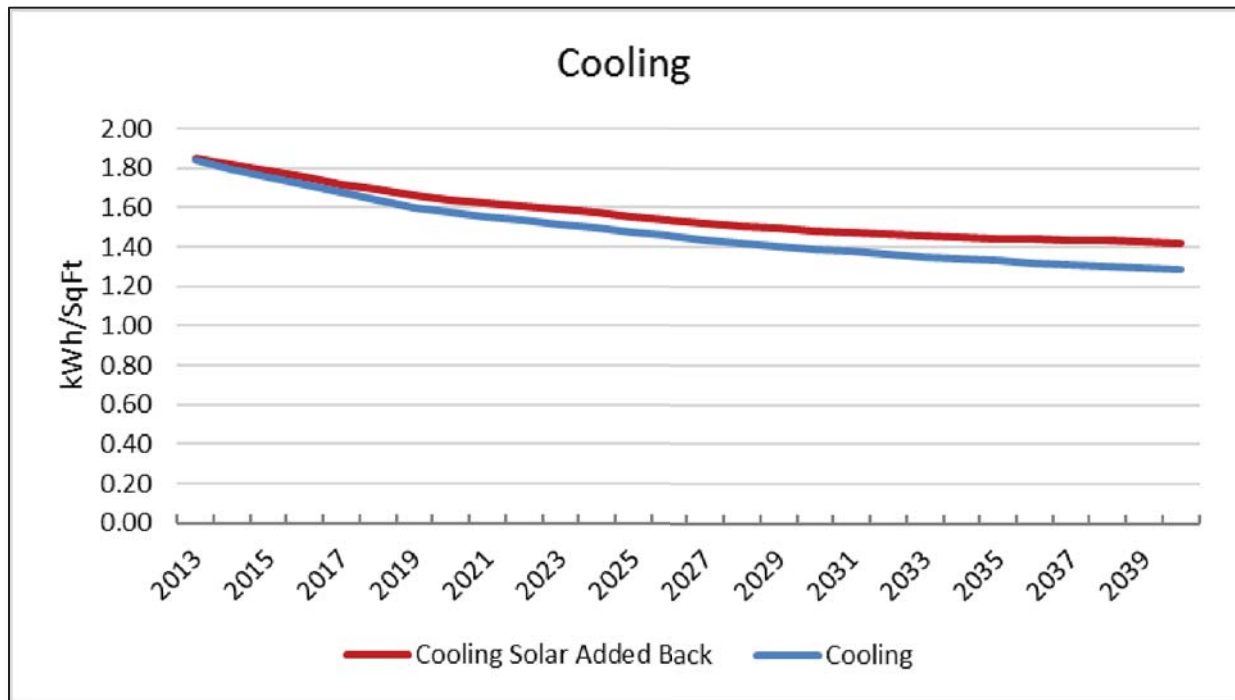
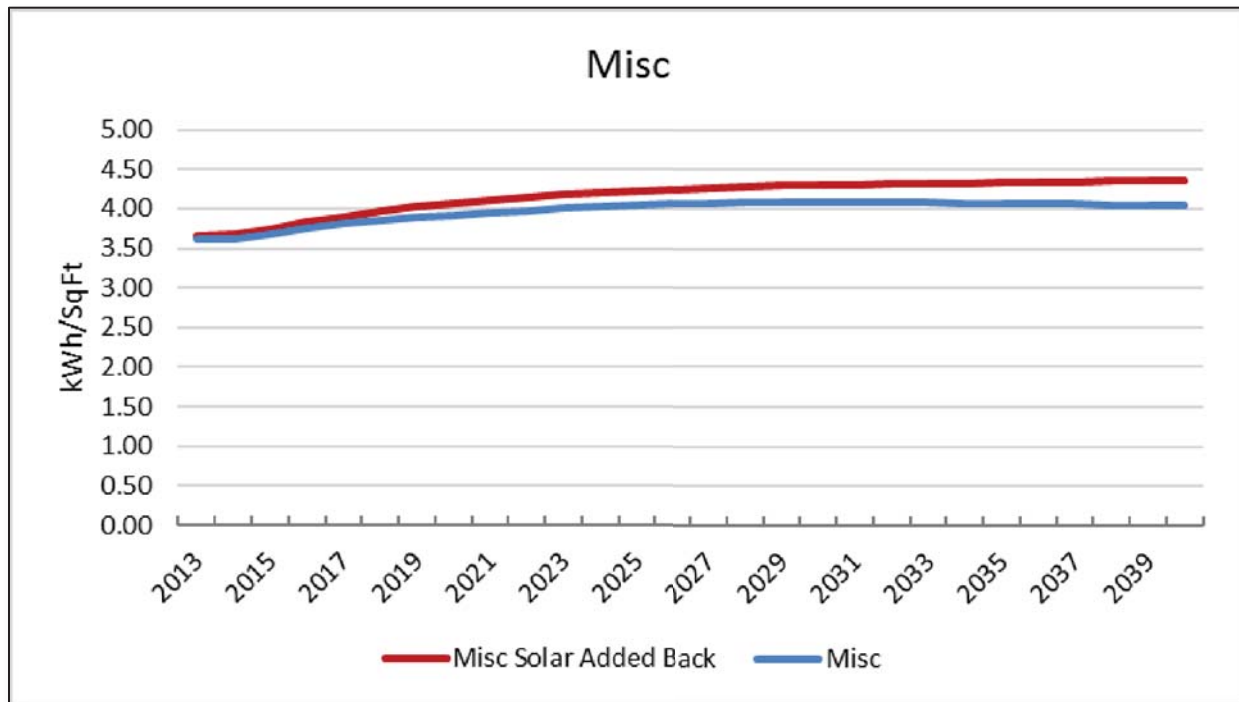




Figure 11: Solar Adjustment Miscellaneous



Gas Forecast Updates

Commercial gas intensities are calculated for the primary end-uses, including:

- Space Heating
- Space Cooling
- Water Heating
- Cooking
- Miscellaneous

Figure 12 shows the distribution of commercial gas consumption by end-use.



Figure 12: Gas End-Use Distribution

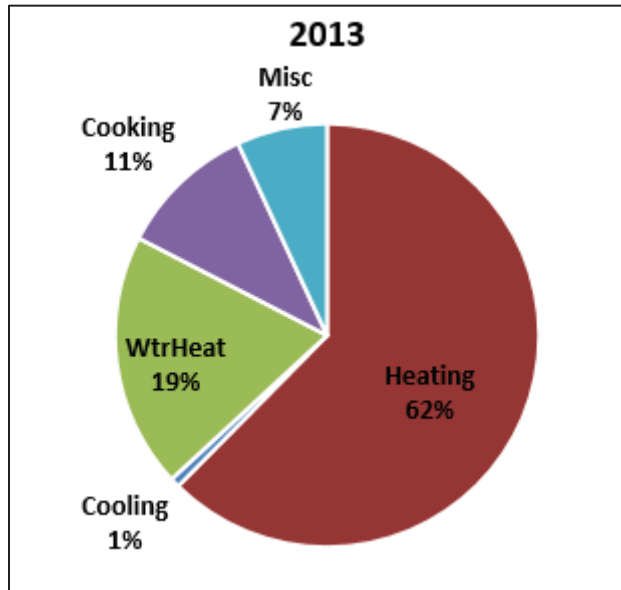
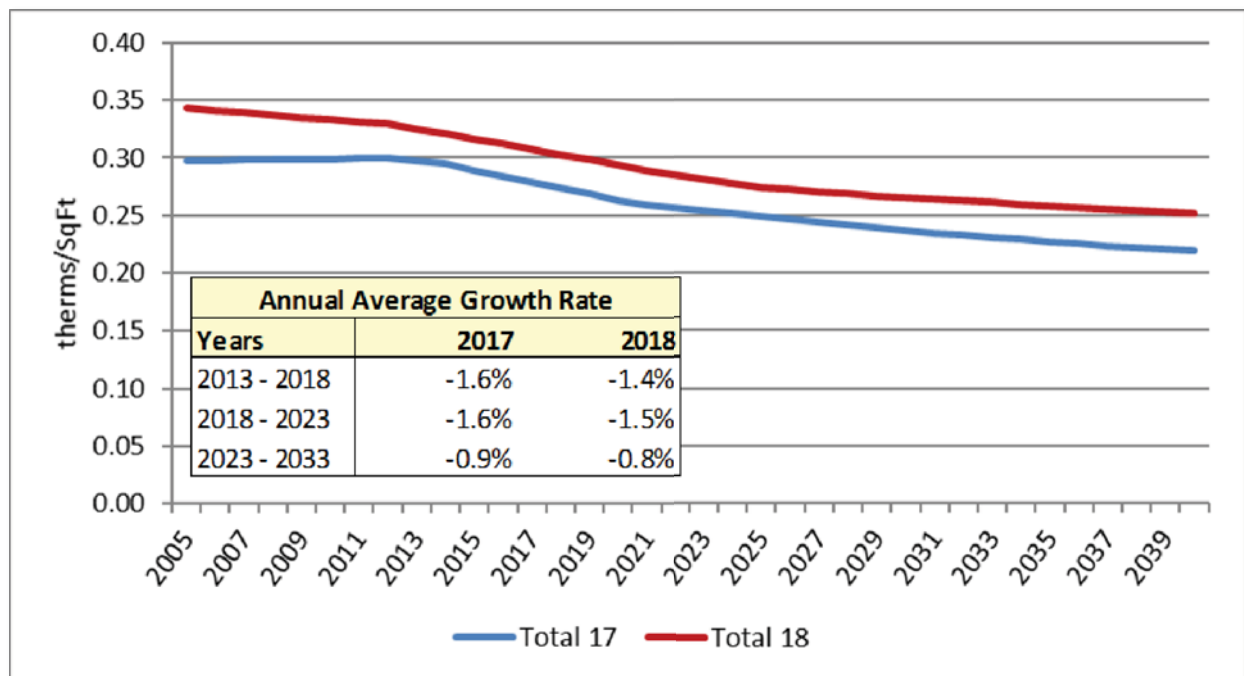


Figure 13 compares the 2017 and 2018 total commercial building gas intensity.

Figure 13: Total Commercial Gas Intensity Forecast (therm/sqft)



Gas intensity (therm per sqft) is expected decline on average 1.5% per year through 2023 and 0.8% between 2023 and 2033; this is a little weaker than in the 2017 forecast. Near-term gas

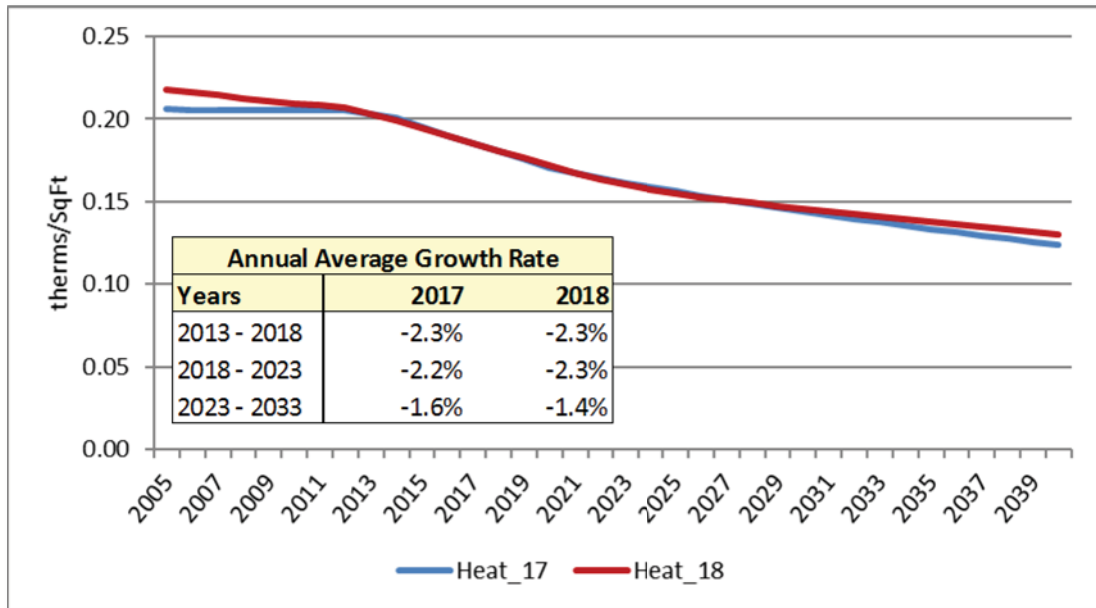


intensities are relatively aggressive and likely incorporate EIA’s assumption of EE program savings. The largest contributor to this decline is the heating intensity projections.

Gas Heating

Natural gas is the predominant energy source for commercial heating. Heating intensity is expected to decline at 2.3% per year through 2023. While efficiency gains do put some downward pressure on the down intensity the major driver is the implied decrease in saturations. There is very little change from the 2017 AEO. Figure 14 compares gas heating intensity projections.

Figure 14: Gas Heating Intensity (therm/sqft)

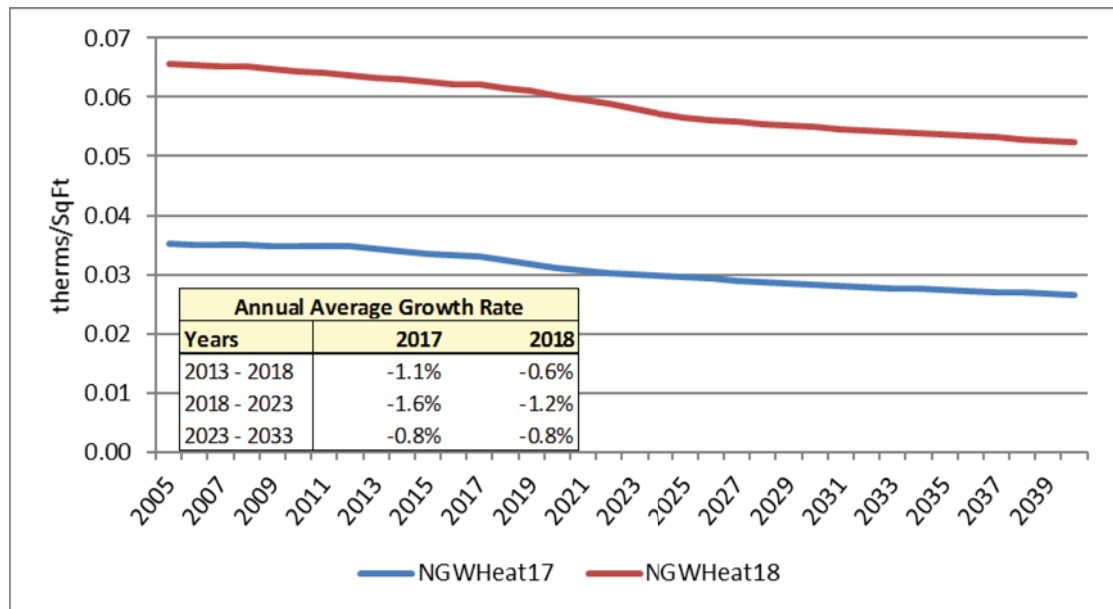




Gas Other End-Uses

After space heating, gas water heating is the second largest gas end-use, accounting for approximately 20% of commercial gas use. There are significant differences between the 2018 and 2017 forecast. The lower 2018 intensity estimate is due to revision in the historical consumption data in the 2013 base-year. The 2018 intensity declines at a slower rate as a result of slightly higher increase in gas water heating saturation. Figure 15 compares the 2017 and 2018 gas water heating intensity projections.

Figure 15: Gas Water Heating Intensity Projections (therm/sqft)



SAE Forecast Model Updates

MetrixND SAE models are constructed for each Census Division. The set of project files include simple floor stock models designed to mimic the EIA commercial sales forecast. In the floor stock models, monthly commercial sales are defined as a function of square footage (SqFt), end-use energy intensities (CoolEI, HeatEI and OtherEI), and monthly heating and cooling degree-day indices (HDDIndex, CDDIndex):

$$Sales_t = b_0 + b_1 \times (CoolEI_t \times SqFt_t \times CDDIndex_t) + b_2 \times (HeatEI_t \times SqFt_t \times HDDIndex_t) + b_3 \times (OtherEI_t \times SqFt_t) + e_t$$

The regional models incorporate EIA's 2018 end-use intensity and square footage projections. The models can be calibrated to an individual utility service area by replacing EIA historical and



forecasted square footage with utility-specific square footage estimates. A standard approach for developing a square footage forecast is to estimate a square footage model as a function of commercial employment:

$$SqFt_t = a_0 + a_1 \times ComEmploy_t + e_t$$

For most utilities, historical floor stock data is difficult to construct. Further, the simple floor stock model may not adequately capture the impact of short-term variations in economic activity and rate changes. The new project files also include the SAE model specifications from earlier years. In the SAE specification, estimates of long-term monthly end-use energy are imported from the SAE spreadsheet, and interacted with GDP, price, and weather conditions. An elasticity that is consistent with forecasts derived from the simple stock model is imposed on GDP. A description of the SAE model specification is outlined in Appendix A.

Excel File Updates

The 2018 commercial files, gas and electric, now contain a **Shares** worksheet, as they have in previous years. This allows users to change assumptions on relative end-use saturations, which impact calculated intensities.

The 2015 and prior SAE files contained separate Indoor and Outdoor Lighting end-uses, which have been aggregated to total Lighting starting with the 2017 files. Additionally, the non-weather sensitive end-uses, which in the past were aggregated and labeled “NonHVAC”, are now labeled “Base”. We felt this was a more accurate description considering ventilation is included in the aggregation. MetrixND file links will need to be edited in order for imports to work properly.



Appendix A: Commercial Statistically Adjusted End-Use Model

The traditional approach to forecasting monthly sales for a customer class is to develop an econometric model that relates monthly sales to weather, seasonal variables, and economic conditions. From a forecasting perspective, econometric models are well suited to identifying historical trends and to projecting these trends into the future. In contrast, end-use models are able to incorporate the end-use factors driving energy use. By including end-use structure in an econometric model, the statistically adjusted end-use (SAE) modeling framework exploits the strengths of both approaches.

There are several advantages to the SAE approach.

- The equipment efficiency trends and saturation changes embodied in the long-run end-use forecasts are introduced explicitly into the short-term monthly sales forecast, thereby providing a strong bridge between the two forecasts.
- By explicitly introducing trends in equipment saturations and efficiency levels, SAE models can explain changes in usage levels and weather-sensitivity over time.
- Data for short-term models are often not sufficiently robust to support estimation of a full set of price, economic, and demographic effects. By bundling these factors with equipment-oriented drivers, a rich set of elasticities can be built into the final model.

This document describes this approach, the associated supporting Commercial SAE spreadsheets, and *MetrixND* project files that are used in the implementation. The source for the commercial SAE spreadsheets is the 2018 Annual Energy Outlook (AEO) database provided by the Energy Information Administration (EIA).

Commercial Statistically Adjusted End-Use Model Framework

The commercial statistically adjusted end-use model framework begins by defining energy use ($USE_{y,m}$) in year (y) and month (m) as the sum of energy used by heating equipment ($Heat_{y,m}$), cooling equipment ($Cool_{y,m}$) and other equipment ($Other_{y,m}$). Formally,

$$USE_{y,m} = Heat_{y,m} + Cool_{y,m} + Other_{y,m} \quad (1)$$



Although monthly sales are measured for individual customers, the end-use components are not. Substituting estimates for the end-use elements gives the following econometric equation.

$$USE_m = a + b_1 \times XHeat_m + b_2 \times XCool_m + b_3 \times XOther_m + \varepsilon_m \quad (2)$$

Here, $XHeat_m$, $XCool_m$, and $XOther_m$ are explanatory variables constructed from end-use information, weather data, and market data. As will be shown below, the equations used to construct these X-variables are simplified end-use models, and the X-variables are the estimated usage levels for each of the major end-uses based on these models. The estimated model can then be thought of as a statistically adjusted end-use model, where the estimated slopes are the adjustment factors.

Constructing XHeat

As represented in the Commercial SAE spreadsheets, energy use by space heating systems depends on the following types of variables.

- Heating degree days,
- Heating intensity,
- Commercial output and energy price.

The heating variable is represented as the product of an annual equipment index and a monthly usage multiplier. That is,

$$XHeat_{y,m} = HeatIndex_y \times HeatUse_{y,m} \quad (3)$$

Where

- $XHeat_{y,m}$ is estimated heating energy use in year y and month m ,
- $HeatIndex_y$ is the annual index of heating equipment, and
- $HeatUse_{y,m}$ is the monthly usage multiplier.

The heating equipment index is composed of electric space heating intensity. The index will change over time with changes in heating intensity. Formally, the equipment index is defined as:

$$HeatIndex_y = HeatSales_{13} \times \frac{(HeatIntensity_y)}{(HeatIntensity_{13})} \quad (4)$$



In this expression, 2013 is used as a base year for normalizing the index. The ratio on the right is equal to 1.0 in 2013. In other years, it will be greater than 1.0 if intensity levels are above their 2004 level.

$$HeatSales_{04} = \left(\frac{kWh}{Sqft} \right)_{Heating} \times \left(\frac{CommercialSales_{13}}{\sum_e kWh/Sqft_e} \right) \quad (5)$$

Here, base-year sales for space heating is the product of the average space heating intensity value and the ratio of total commercial sales in the base year over the sum of the end-use intensity values. In the Commercial SAE Spreadsheets, the space heating sales value is defined on the *BaseYrInput* tab. The resulting *HeatIndex_y* value in 2013 will be equal to the estimated annual heating sales in that year. Variations from this value in other years will be proportional to saturation and efficiency variations around their base values.

Heating system usage levels are impacted on a monthly basis by several factors, including weather, commercial level economic activity, and prices. Using the COMMEND default elasticity parameters, the estimates for space heating equipment usage levels are computed as follows:

$$HeatUse_{y,m} = \left(\frac{WgtHDD_{y,m}}{HDD_{13}} \right) \times \left(\frac{Output_y}{Output_{13}} \right) \times \left(\frac{Price_{y,m}}{Price_{13}} \right)^{-0.18} \quad (6)$$

Where

- *WgtHDD* is the weighted number of heating degree days in year *y* and month *m*. This is constructed as the weighted sum of the current month's HDD and the prior month's HDD. The weights are 75% on the current month and 25% on the prior month
- *HDD* is the annual heating degree days for 2013,
- *Output* is a real commercial output driver in year *y*,
- *Price* is the average real price of electricity in month *m* and year *y*,

By construction, the *HeatUse_{y,m}* variable has an annual sum that is close to 1.0 in the base year (2013). The first terms, which involve heating degree days, serves to allocate annual values to months of the year. The remaining terms average to 1.0 in the base year. In other years, the values will reflect changes in commercial output and prices, as transformed through the end-use elasticity parameters. For example, if the real price of electricity goes up 10% relative to the base year value, the price term will contribute a multiplier of about .98 (computed as 1.10 to the -0.18 power).



Constructing XCool

The explanatory variable for cooling loads is constructed in a similar manner. The amount of energy used by cooling systems depends on the following types of variables.

- Cooling degree days,
- Cooling intensity,
- Commercial output and energy price.

The cooling variable is represented as the product of an equipment-based index and monthly usage multiplier. That is,

$$XCool_{y,m} = CoolIndex_y \times CoolUse_{y,m} \quad (7)$$

Where

- $XCool_{y,m}$ is estimated cooling energy use in year y and month m ,
- $CoolIndex_y$ is an index of cooling equipment, and
- $CoolUse_{y,m}$ is the monthly usage multiplier.

As with heating, the cooling equipment index depends on equipment saturation levels ($CoolShare$) normalized by operating efficiency levels (Eff). Formally, the cooling equipment index is defined as:

$$CoolIndex_y = CoolSales_{13} \times \frac{\left(\frac{CoolShare_y}{Eff_y} \right)}{\left(\frac{CoolShare_{13}}{Eff_{13}} \right)} \quad (8)$$

Data values in 2013 are used as a base year for normalizing the index, and the ratio on the right is equal to 1.0 in 2013. In other years, it will be greater than 1.0 if equipment saturation levels are above their 2013 level. This will be counteracted by higher efficiency levels, which will drive the index downward. Estimates of base year cooling sales are defined as follows.

$$CoolSales_{13} = \left(\frac{kWh}{Sqft} \right)_{Cooling} \times \left(\frac{CommercialSales_{13}}{\sum_e kWh/Sqft_e} \right) \quad (9)$$

Here, base-year sales for space cooling is the product of the average space cooling intensity value and the ratio of total commercial sales in the base year over the sum of the end-use



intensity values. In the Commercial SAE Spreadsheets, the space cooling sales value is defined on the *BaseYrInput* tab. The resulting *CoolIndex* value in 2013 will be equal to the estimated annual cooling sales in that year. Variations from this value in other years will be proportional to saturation and efficiency variations around their base values.

Cooling system usage levels are impacted on a monthly basis by several factors, including weather, economic activity levels and prices. Using the COMMEND default parameters, the estimates of cooling equipment usage levels are computed as follows:

$$CoolUse_{y,m} = \left(\frac{WgtCDD_{y,m}}{CDD_{13}} \right) \times \left(\frac{Output_y}{Output_{13}} \right) \times \left(\frac{Price_{y,m}}{Price_{13}} \right)^{-0.18} \quad (10)$$

Where

- *WgtCDD* is the weighted number of cooling degree days in year *y* and month *m*. This is constructed as the weighted sum of the current month's CDD and the prior month's CDD. The weights are 75% on the current month and 25% on the prior month.
- *CDD* is the annual cooling degree days for 2013.

By construction, the *CoolUse* variable has an annual sum that is close to 1.0 in the base year (2013). The first two terms, which involve billing days and cooling degree days, serve to allocate annual values to months of the year. The remaining terms average to 1.0 in the base year. In other years, the values will change to reflect changes in commercial output and prices.

Constructing *XOther*

Monthly estimates of non-weather sensitive sales can be derived in a similar fashion to space heating and cooling. Based on end-use concepts, other sales are driven by:

- Equipment intensities,
- Average number of days in the billing cycle for each month, and
- Real commercial output and real prices.

The explanatory variable for other uses is defined as follows:

$$XOther_{y,m} = OtherIndex_{y,m} \times OtherUse_{y,m} \quad (11)$$



The second term on the right-hand side of this expression embodies information about equipment saturation levels and efficiency levels. The equipment index for other uses is defined as follows:

$$OtherIndex_{y,m} = \sum_{Type} Weight_{13}^{Type} \times \left(\frac{Share_y^{Type} / Eff_y^{Type}}{Share_{13}^{Type} / Eff_{13}^{Type}} \right) \quad (12)$$

Where

- *Weight* is the weight for each equipment type,
- *Share* represents the fraction of floor stock with an equipment type, and
- *Eff* is the average operating efficiency.

This index combines information about trends in saturation levels and efficiency levels for the main equipment categories. The weights are defined as follows.

$$Weight_{13}^{Type} = \left(\frac{kWh}{Sqft} \right)_{Type} \times \left(\frac{CommercialSales_{13}}{\sum_e kWh / Sqft_e} \right) \quad (13)$$

Further monthly variation is introduced by multiplying by usage factors that cut across all end-uses, constructed as follows:

$$OtherUse_{y,m} = \left(\frac{BDays_{y,m}}{30.44} \right) \times \left(\frac{Output_y}{Output_{13}} \right) \times \left(\frac{Price_{y,m}}{Price_{13}} \right)^{-0.18} \quad (14)$$

In this expression, the elasticities on output and real price are computed from the COMMEND default values.

Supporting Spreadsheets and *MetrixND* Project Files

The SAE approach described above has been implemented for each of the nine census divisions. A mapping of states to census divisions is presented in Figure 1. This section describes the contents of each file and a procedure for customizing the files for specific utility data. A total of 18 files are provided. These files are listed in

Table 1.



Figure 1: Mapping of States to Census Divisions

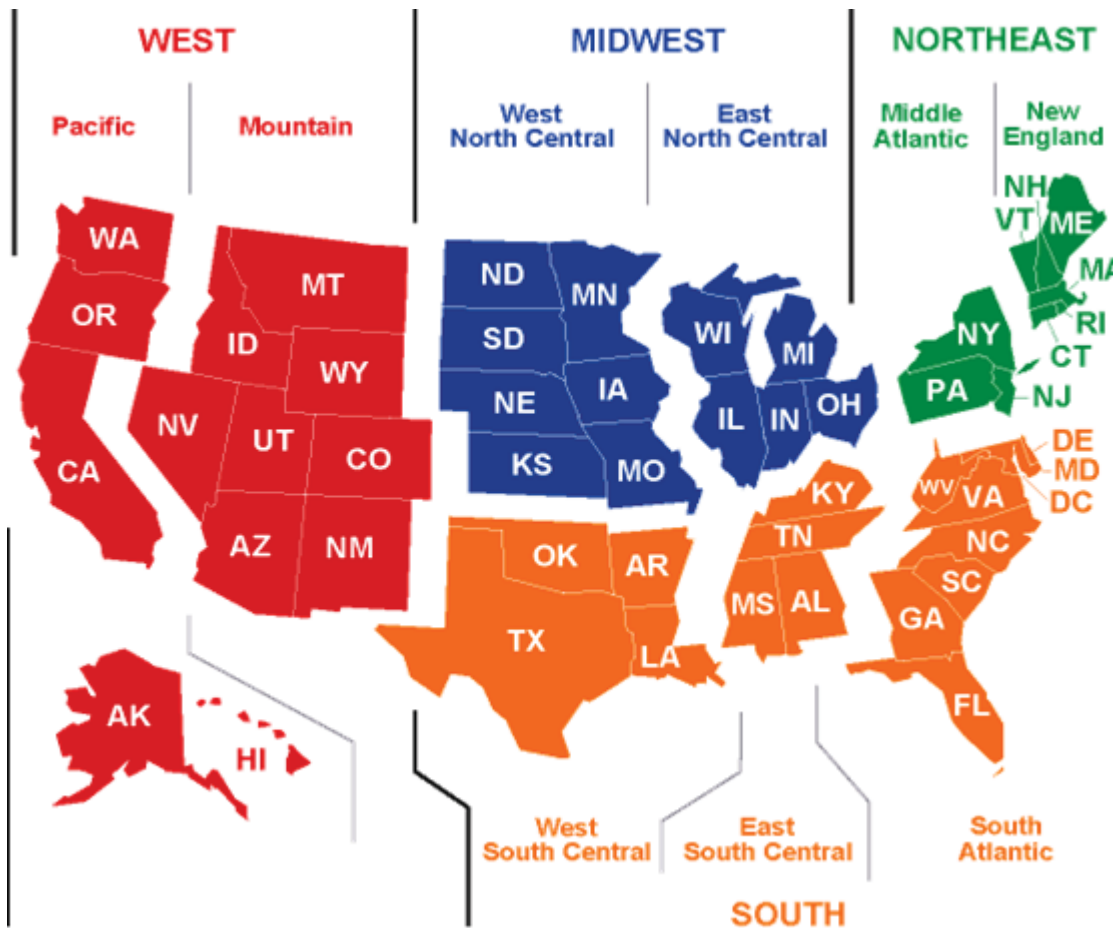


Table 1: List of SAE Files

Spreadsheets	<i>MetrixND</i> Project Files
NewEnglandCom18.xls	NewEnglandCom18.ndm
MiddleAtlanticCom18.xls	MiddleAtlanticCom18.ndm
EastNorthCentralCom18.xls	EastNorthCentralCom18.ndm
WestNorthCentralCom18.xls	WestNorthCentralCom18.ndm
SouthAtlanticCom18.xls	SouthAltanticCom18.ndm
EastSouthCentralCom18.xls	EastSouthCentralCom18.ndm
WestSouthCentralCom18.xls	WestSouthCentralCom18.ndm
MountainCom18.xls	MountainCom18.ndm
PacificCom18.xls	PacificCom18.ndm

As defaults, the SAE spreadsheets include regional data, but utility data can be entered to generate the *Heat*, *Cool*, and *Other* equipment indices used in the SAE approach. The data from



these spreadsheets are linked to the *MetrixND* project files. In these project files, the end-use *Usage* variables (Equations 6, 10, and 14 above) are constructed and the SAE model is estimated.

The nine spreadsheets contain the following tabs.

- **EIADData** contains the raw forecasted data provided by the EIA
- **BaseYrInput** contains base year Census Division intensities by end-use and building type as well as default building type weights. It also contains functionality for changing the weights to reflect utility service territory.
- **Efficiency** contains historical and forecasted end-use equipment efficiency trends. The forecasted values are based on projections provided by the EIA.
- **Shares.** This tab contains historical and forecasted end-use saturations.
- **Intensity** contains the annual intensity (kWh/sqft) projections by end-use.
- **AnnualIndices** contains the annual *Heat*, *Cool* and *Other* equipment indices.
- **FloorSpace** contains the annual floor space (sqft) projections by end-use.
- **PV** incorporates the impact of photovoltaic batteries into the forecast.
- **Graphs** contains graphs of Efficiency and Intensities, which can be updating by selecting from the list in cell B2.

The *MetrixND* project files contain the following objects.

Parameter Tables

- **Parameters.** This parameter table includes the values of the annual HDD and CDD in 2013 used to calculate the *Usage* variables for each end-use.
- **Elas.** This parameter table includes the values of the elasticities used to calculate the *Usage* variables for each end-use.

Data Tables

- **AnnualIndices.** This data table is linked to the *AnnualIndices* tab in the Commercial SAE spreadsheet and contains sales-adjusted commercial SAE indices.
- **Intensity.** This data table is linked to the *Intensity* tab in the Commercial SAE spreadsheet.
- **FloorSpace.** This data table links to *FloorSpace* tab in the Commercial SAE spreadsheet.
- **UtilityData.** This linkless data table contains Census Division level data. It can be populated with utility-specific data.

Transformation Tables

- **EconTrans.** This transformation table is used to compute the output and price indices used in the usage equations.



- **WeatherTrans.** This transformation table is used to compute the HDD and CDD indices used in the usage equations.
- **CommercialVars.** This transformation table is used to compute the *Heat*, *Cool* and *Other Usage* variables, as well as the *XHeat*, *XCool* and *XOther* variables that are used in the regression model. Structural variables based on the intensity/floor space combination are also calculated here.
- **BinaryVars.** This transformation table is used to compute the calendar binary variables that could be required in the regression model.
- **AnnualFcst.** This transformation table is used to compute the annual historical and forecast sales and annual change in sales.
- **EndUseFcst.** This transformation table breaks the forecast down into its heating, cooling and other components.

Models

- **ComSAE:** The commercial SAE model (energy forecast driven by end-use indices, price, and output projections).
- **ComStruct:** Simple stock model (energy forecast driven by end-use energy intensities, and square footage).