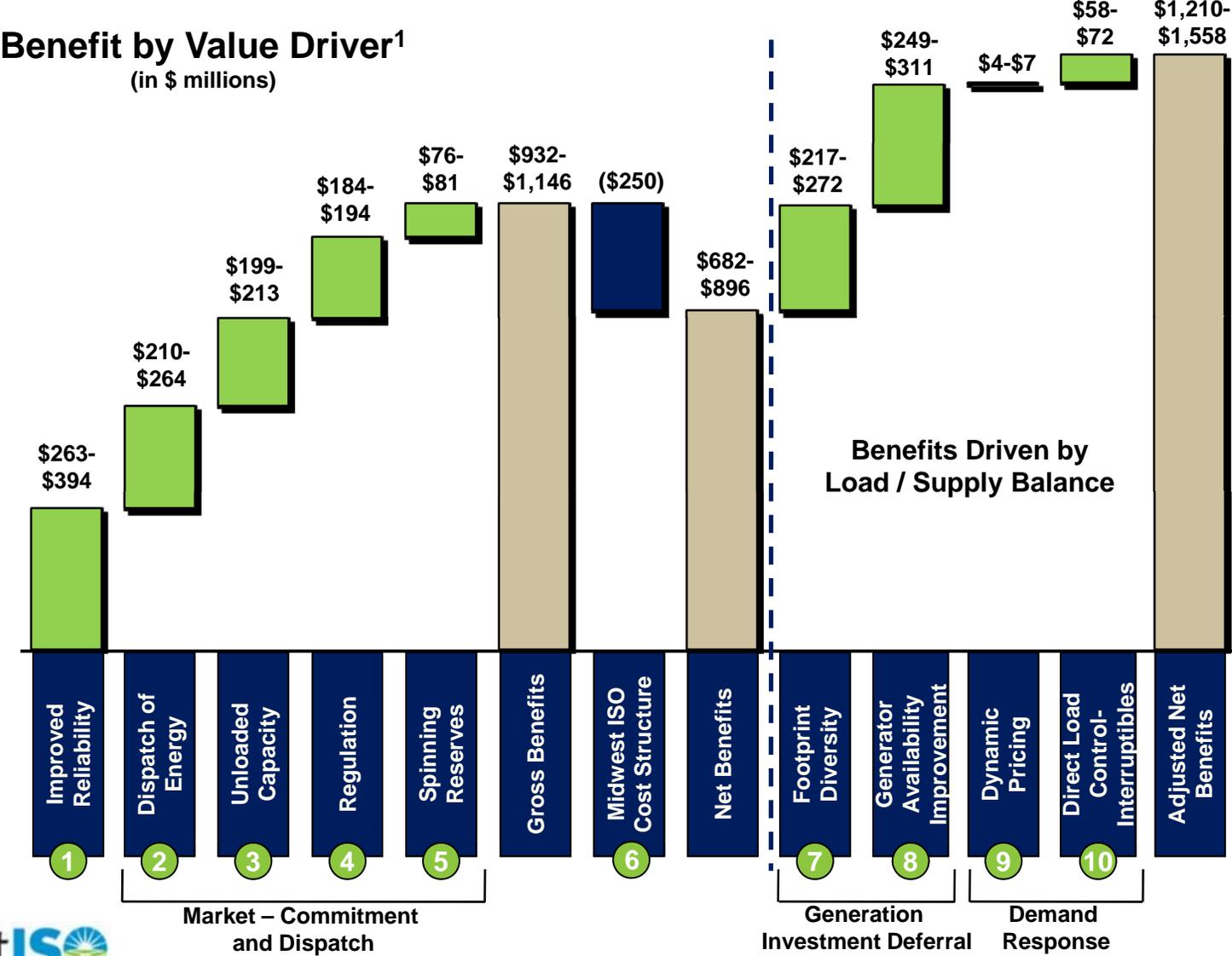


# Midwest ISO IURC Summer Assessment

May 21, 2010

# The Midwest ISO Value Proposition



## **Discussion Overview**

**Ancillary Service Markets Operations has increased reliability and significantly added to the Midwest ISO Value Proposition**

**Adequate resource capacity is available to reliably meet forecasted peak demand**

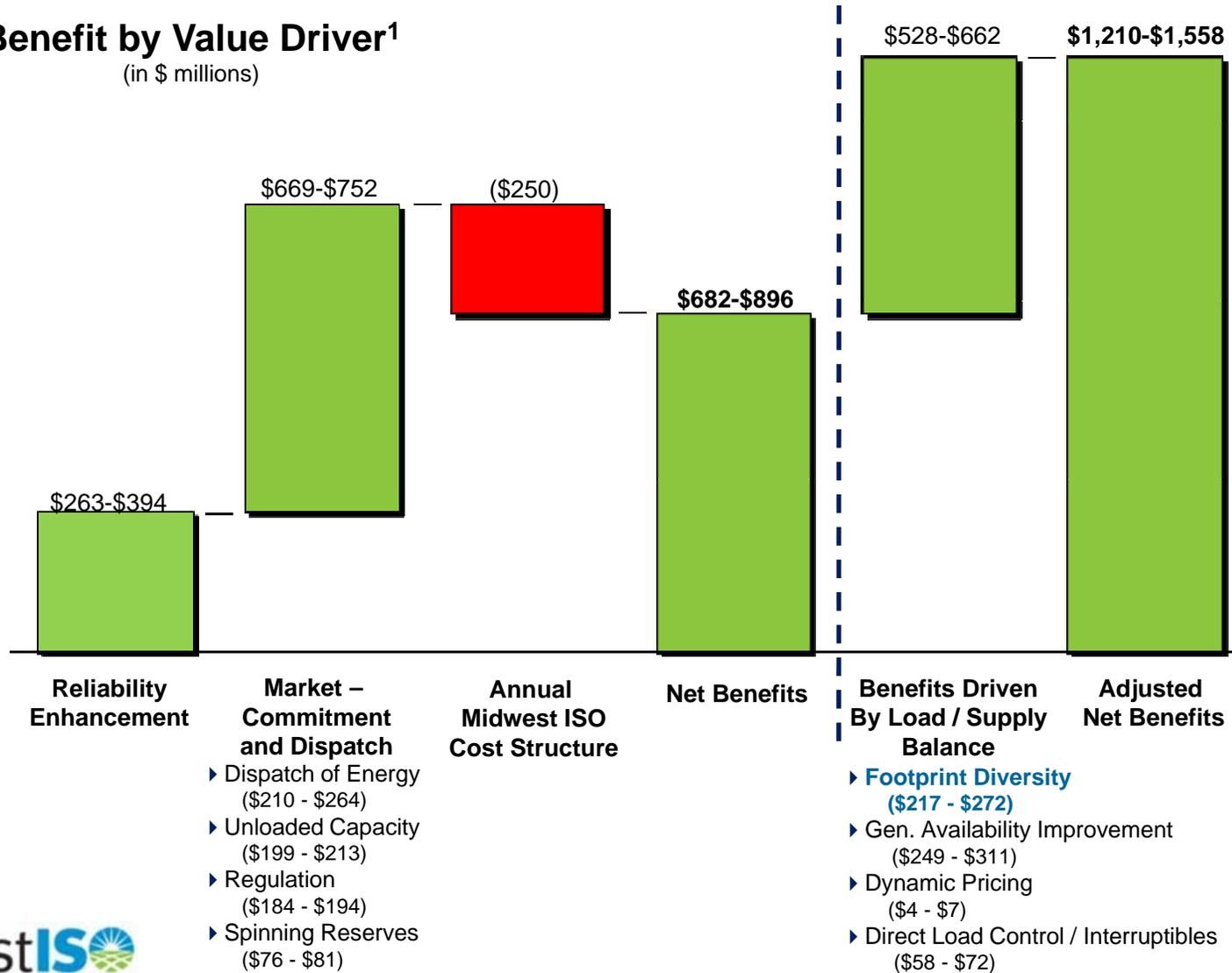
- Current Reserve Margin of 25.9% exceeds 15.4% requirement
- Current Reserve Margin results in a loss of load expectation of 1 day in 82 years versus a criteria of 1 day in 10

**There are no unusual operating conditions anticipated that would adversely impact reliability operations**

- Water levels and hydro conditions projected as normal
- No fuel delivery issues are anticipated
- Emergency operating procedures have been communicated and training conducted with Midwest ISO and local balance authority operators

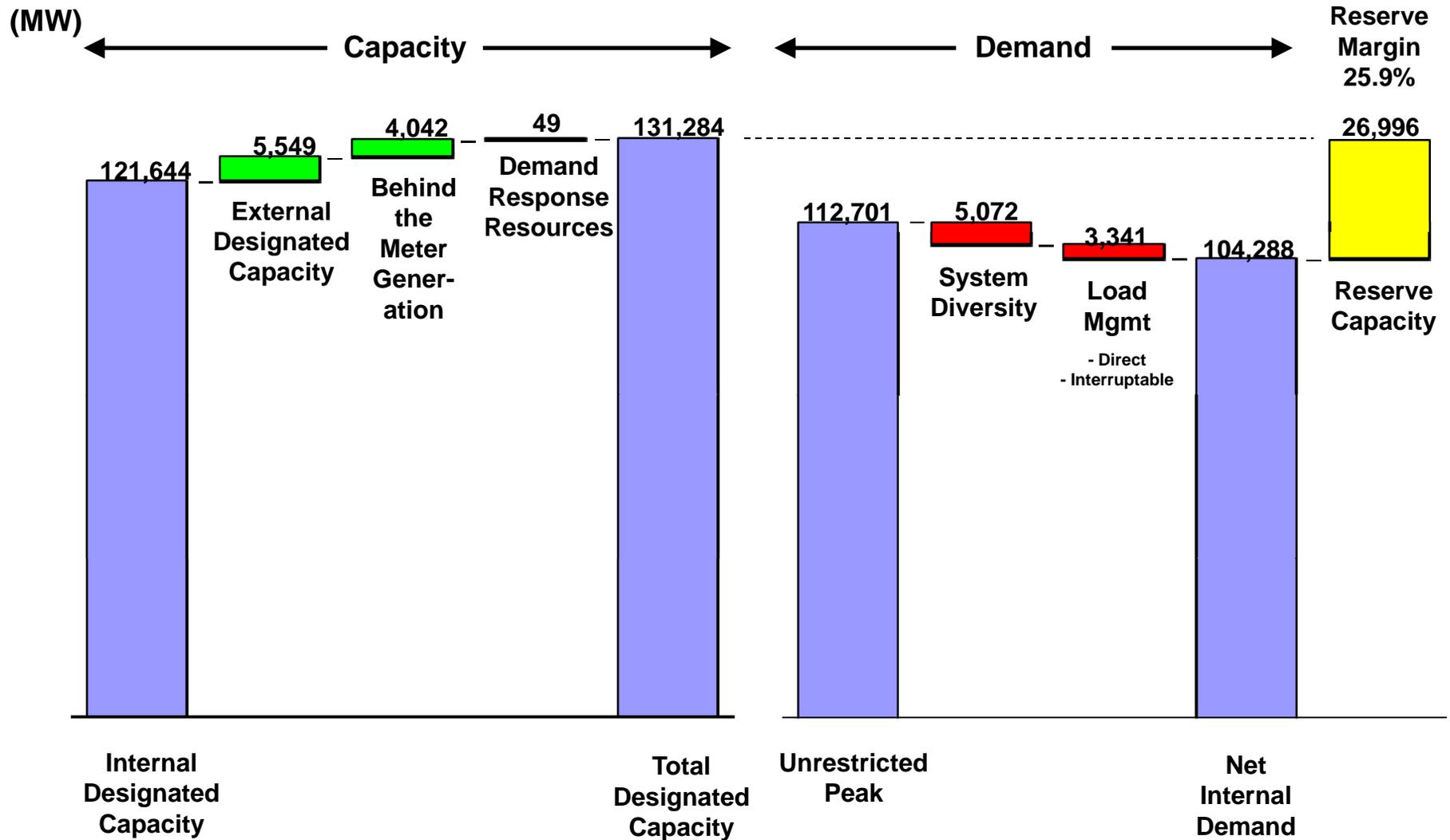
# The Midwest ISO Value Proposition has been enhanced

**Benefit by Value Driver<sup>1</sup>**  
(in \$ millions)



<sup>1</sup>Figures shown reflect annual benefits and costs for 2009

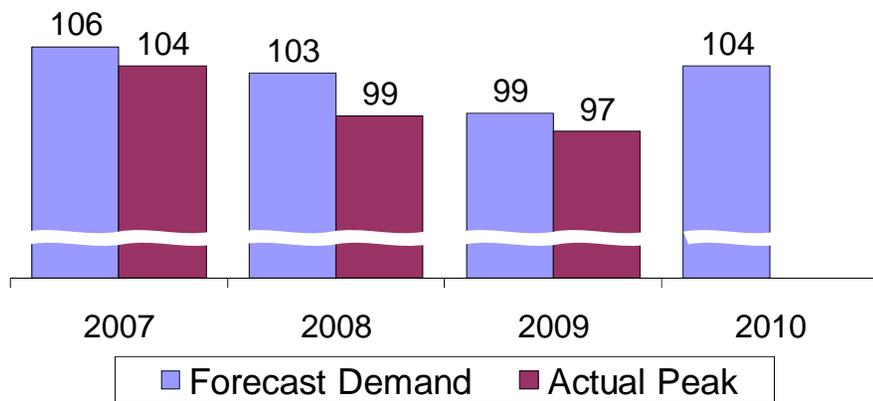
# 2010 Summer Assessment forecasts a 25.9% Reserve Margin



2009	109,189	4,331	4,216	339	118,074	107,149	4,677	2,372	100,101	17,973
2008	115,261	6,291	3,442	0	124,994	112,709	4,454	4,804	103,451	21,543

# Midwest ISO capacity and estimated demand increased primarily due to the Iowa and Dairyland integrations

## Midwest ISO Peak Demand (in GWs)



## Midwest ISO Resources (in GWs)



Note: Available resources includes 100% of nameplate capacity for all resources, including wind.

# Planning Reserve Margin Requirements are based using a 1 day in 10 year loss of load

Planning Reserve Margin	Requirement	Explanation
Midwest ISO Coincident Peak	15.4%	▶ Reserve margin required on hour in which the Midwest ISO load peaks
Load Serving Entity Non-Coincident Peak	11.94%	▶ Reserve margin required by load serving entity based on their individual peak hour
Unforced Capacity	4.5%	▶ Capacity resource value reflecting the historical performance of the assets

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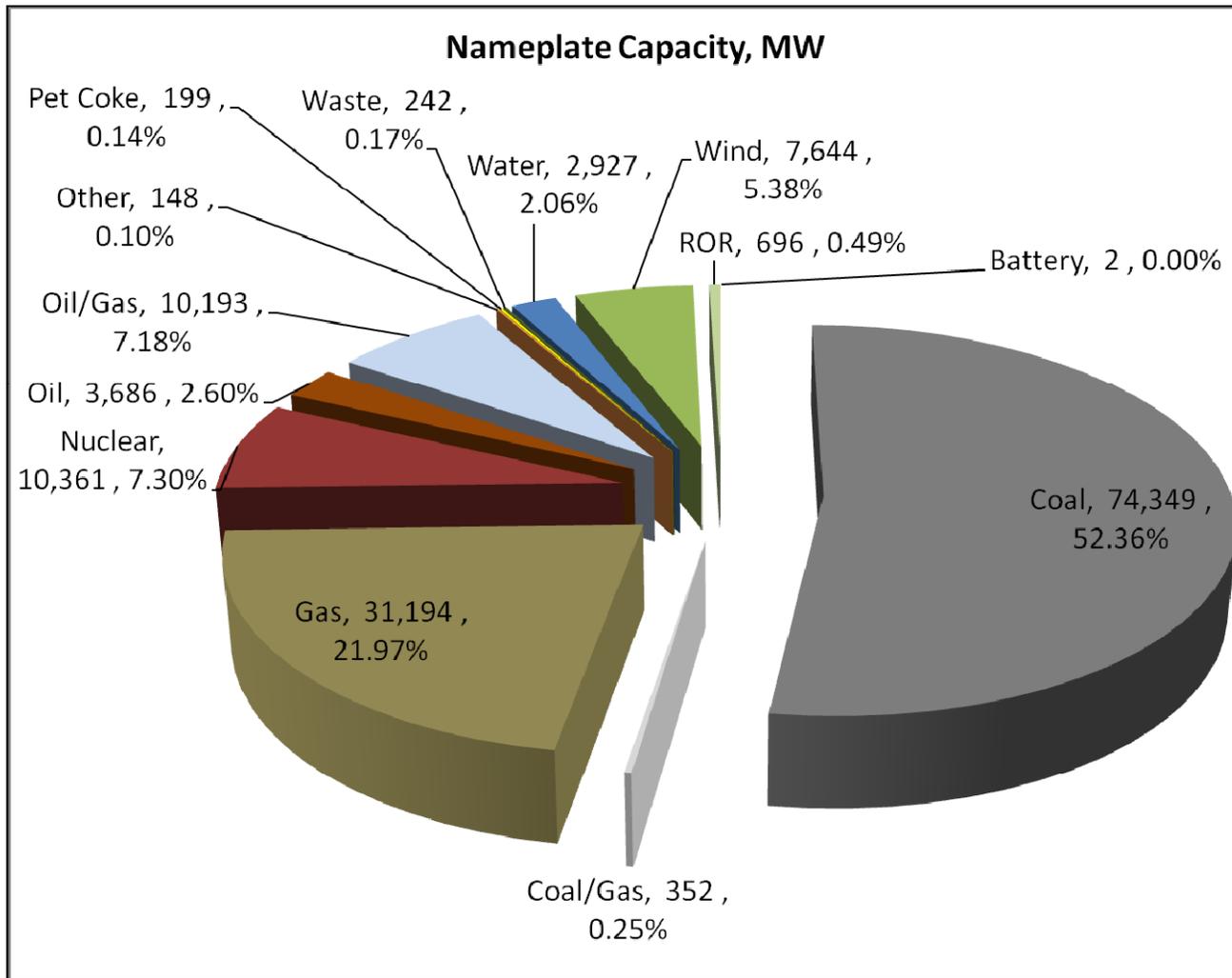
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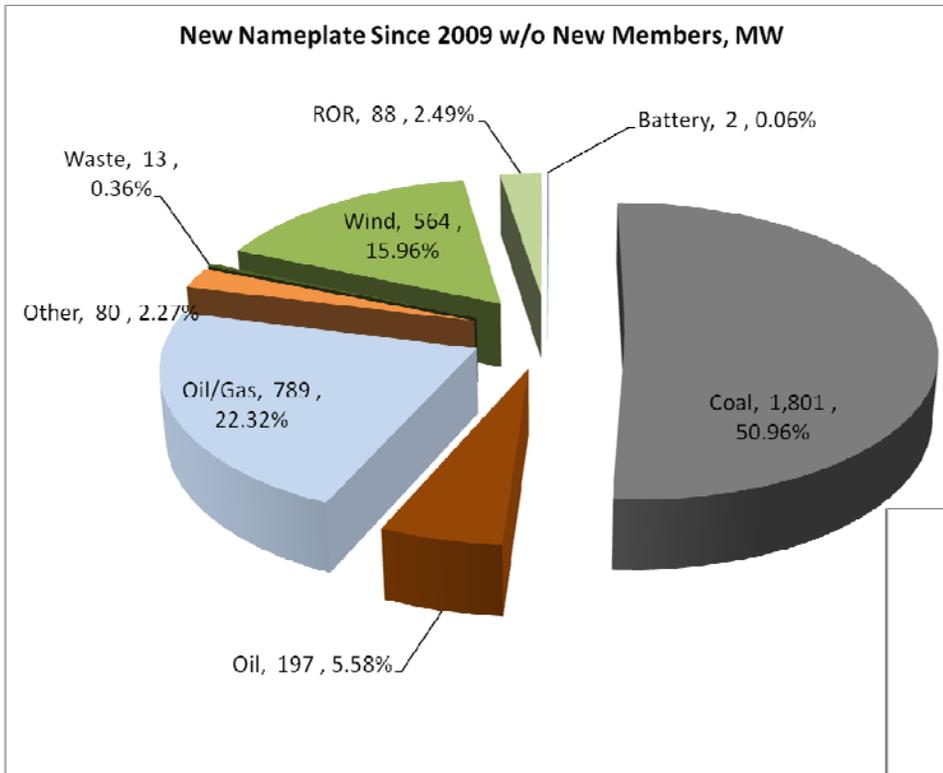
# Appendix

# Nameplate Capacity by Fuel



- ▶ New Membership contributed to the 141,993 MW of nameplate for 2010, an increase of 8% from 2009
- ▶ Wind nameplate increased to 7,644 MW for 2010, a 36% increase from 2009
- ▶ 756 MW in retirements or reclassifications

# New Nameplate by Fuel



## New Nameplate Since 2009 without New Members

- ▶ 3,534 MW total
- ▶ Coal 51%, Wind 16% (564 MW), Oil/Gas 22%, Oil 6%

## New Member Nameplate Capacity

- ▶ 7,822 MW total
- ▶ Coal 58%, Wind 18% (1,444 MW), Gas 13%

