



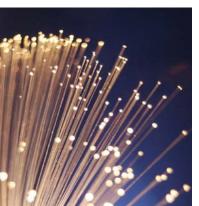
Annual Report to the Regulatory Flexibility
Committee of the Indiana
General Assembly



2012







Indiana Utility Regulatory Commission

Annual Report to the Regulatory Flexibility Committee

The Indiana Utility Regulatory Commission (Commission or IURC) is an administrative court that hears evidence in cases filed before it and makes decisions based on the evidence presented in those cases. An advocate of neither the public nor the utilities, the IURC is required by state statute to make decisions that weigh the interests of all parties to ensure the utilities provide adequate and reliable service at reasonable prices.

Agency Accomplishments

Over the course of the last year, the IURC handled a number of high-profile cases, made the regulatory process more transparent, and issued decisions with immediate and direct benefits to utility customers. The graphic below details a sampling of these accomplishments.

Caseload

Orders issued by the Commission

New metric aimed at closing docketed cases within 90 days of the last filing

13 field hearings held throughout the state for pending cases

Transparency

Hearings are now live streamed over the Web



Web redesign more content, less clutter

Advancement

3 new rules:

tree trimming, clean energy, & net metering

\$68 million

will be saved by the end of September 2012 due to the approved utility transfer from Indianapolis Water Company to Citizens Energy Group

Dedication to Public Service

In terms of collective years of experience for utility commissioners, the IURC ranks 5th out of 60 federal and state public utility regulatory agencies in the United States, according to the Institute of Public Utilities at Michigan State University. Indiana's high ranking is bolstered by

the experience of Commissioner David Ziegner, who with nearly 22 years of service, is the 4th longest serving utility regulatory commissioner in the nation.

The IURC also has a dedicated, professional staff of 73 people, many of whom are attorneys, accountants, economists, or engineers who advise the Commission about utility regulatory matters affecting

A number of IURC staff members have more than 25 years' experience in the utility industry. Many others have advanced degrees and/or are members of state and federal committees.

the state. A number of these staff members have more than 25 years' experience in the utility industry. Many others have advanced degrees and/or are members of state and federal committees. Among the executive team, there is more than 73 years of collective experience.

Leadership

The Commissioners



Chairman

Jim Atterholt



Commissioner

Kari Bennett



Commissioner

Larry Landis



Commissioner
Carolene Mays



Commissioner

David Ziegner

¹www.ipu.msu.edu/research/pdfs/IPU-Commissioner-Demographics-2012.pdf

Jim Atterholt

Chairman

Chairman Atterholt was appointed by Governor Mitch Daniels on June 22, 2009, and on October 5, 2010, he was named chairman. Prior to joining the Commission, he was the State Insurance Commissioner for more than four years, where he also served as a member of the Governor's Cabinet. Atterholt has dedicated much of his life to public service. He was elected and served two terms as a member of the Indiana General Assembly from 1998 to 2002. As a State Representative, he served on the House Commerce, Economic Development and Technology Committee, which had jurisdiction over all utility-related legislation. Atterholt was ranking member of the Environmental Affairs Committee, as well as a member of the Labor Committee. Before returning to public service as the State Insurance Commissioner, Atterholt worked as Director of Government Affairs for AT&T-Indiana from 2003 to 2004. A native of Fort Wayne, Indiana, Atterholt received his bachelor's degree from the University of Wisconsin in 1986. He has also worked as Chief of Staff in Washington D.C. and later as District Director in Indiana for a member of the United States Congress where his responsibilities included energy issues. Atterholt is a member of the National Association of Regulatory Utility Commissioners where he serves on the Committee on Gas. Atterholt has served as a member of the board of directors for the Organization of MISO States and currently serves on the board of directors for the Organization of PJM States. He also serves on the board of directors of the Saint Florian Center for at-risk children. Married for 25 years to his wife, Brenda, they are blessed with three children and currently reside in Indianapolis.

Kari Bennett

Commissioner

Commissioner Bennett was appointed by Governor Mitch Daniels on January 13, 2011. She currently serves as Vice President of the Organization of MISO States and is a member of the National Association of Regulatory Utility Commissioners' Committee on Energy Resources and the Environment, as well as the Task Force on Environmental Regulation and Generation. Prior to joining the Commission, she was the Chief Legal Counsel of the Indiana Department of Natural Resources, where she was involved in all aspects of the agency's mission, including protection and enforcement of natural resources, land acquisition, and agency management and administration. From 2005 to 2007, Bennett was Policy Director for Environment and Natural

Resources for Indiana Governor Mitch Daniels. She developed and advocated policy on significant national, regional, and state issues, including air quality standards and attainment designations, mercury emission reduction requirements for electric utilities, and Great Lakes issues. Bennett also practiced law at Barnes & Thornburg LLP, focusing on environmental law and government services, and served in various positions at the Indiana Department of Environmental Management before and after law school. She graduated from Miami University of Ohio with a degree in environmental science, and received her J.D. from the University of Minnesota.

Larry Landis

Commissioner

After 30 years in the private sector, Commissioner Landis was appointed 9½ years ago by the late Governor Frank O'Bannon, and to subsequent full terms by former Governor Joe Kernan and Governor Mitch Daniels. At the national level, he has advocated for Indiana's light regulatory touch, for even-handed regulation, for technological neutrality, and for procompetitive policies in communications. He served two, three-year terms on the Federal-State Joint Board on Universal Service and has also served on the Federal-State Joint Conference on Advanced Telecommunications Services since 2005, of which he is currently State Chair. Landis is also a member of the Federal-State Joint Board on Jurisdictional Separations. He was recently reappointed to a second term as an at-large member of the NARUC Board of Directors. Landis also focuses on financial issues. He co-chairs the IURC's Financial Taskforce, created in the wake of the market collapse in 2008-09, and is immediate past Vice Chair (2009-2010) and Chair (2010-2011) and member of the Advisory Board of the Financial Research Institute at the University of Missouri's Trulaske School of Business. He is also a member of the Society of Utility and Regulatory Financial Analysts and the IEEE Computer Society. He and his wife Carol recently celebrated their 37th anniversary. Their son and daughter-in-law, Chris and Heather, are the parents of three daughters, Lauren, Anna, and Emily.

Carolene Mays

Commissioner

Commissioner Mays was appointed by Governor Mitch Daniels in February 2010. She is appointed to the National Association of Regulatory Utility Commissioners Water and

Washington Action committees and as Co-Vice Chair of the Critical Infrastructure Committee. She was also elected Vice President of the Mid-America Regulatory Conference, an association of regional organizations of utility and energy regulatory agencies. Prior to joining the Commission, she was Publisher and President of the Indianapolis Recorder Newspaper and the Indiana Minority Business Magazine. She was also a finalist for an appointment by President Barack Obama as the Midwest Regional Director of Housing and Urban Development; however, Mays withdrew her name upon receiving her appointment to the IURC. She served in the Indiana House of Representatives from 2002 to 2008 and sat on the committees for Ways and Means, Small Business and Economic Development, and Public Health. She also served on committees with the National Black Caucus of State Legislators, the National Conference of State Legislators, and Women in Government. During her terms, Mays received several Legislator of the Year awards, was listed by Roll Call (a Washington D.C. publication) as a "Rising Star in Indiana Politics," and was named one of "Indiana's Most Influential Women" by the *Indianapolis* Business Journal. Mays currently serves on the Indianapolis Capital Improvement Board, the Indiana Sports Corporation Board Executive Committee, and Peyton Manning's PeyBack Foundation, among others. She was chairperson for the NCAA Women's Final Four in 2006 and 2011, and the 2012 Indianapolis Super Bowl Division Chairperson of Administration. An Indiana State University Distinguished Alumni, Mays holds a B.S. in business management and marketing. She is a member of Eastern Star Church, Alpha Kappa Alpha Sorority, and the Indianapolis Chapter of the Links and Northeasterners. Mays is married to Fred Medley and has one daughter, Jada, and three step-sons, Frederick II, Niles, and Chase.

David Ziegner

Commissioner

Commissioner Ziegner was appointed in 1990 by Governor Evan Bayh and reappointed to full, four-year terms in 1991 and 1995. He was reappointed once again by the late Governor Frank O'Bannon in 1999 and 2003 and then by Governor Mitch Daniels in 2007 and 2011. Commissioner Ziegner is the Treasurer of the National Association of Regulatory Utility Commissioners and Vice Chair of its Committee on Electricity, as well as the former Chairman of its Clean Coal and Carbon Sequestration Subcommittee. He is also a member of the Mid-America Regulatory Conference and the Consortium for Electric Reliability Technology Solutions Industry Advisory Board. Additionally, Ziegner was the former Chairman of the

Advisory Council of the Center for Public Utilities at New Mexico State University and a member of the Advisory Council of the Electric Power Research Institute. He earned his B.A. in history and journalism from Indiana University in 1976 and his J.D. degree from the Indiana University School of Law in Indianapolis in 1979, during which time he was also admitted to the Indiana Bar and U.S. District Court. Prior to joining the Commission, Ziegner served as a staff attorney for the Legislative Services Agency, where he developed his background in both utility and regulatory issues. Ziegner, his wife, Barbara, and their daughter, Jennifer, reside in Greenwood and are members of the Northminster Presbyterian Church.

Executive Team



Chief Administrative Law Judge



Executive Director of External Affairs



Executive Director of Technical Operations



General Counsel

Loraine Seyfried

Joseph Sutherland

Robert Veneck

Doug Webber

Loraine Seyfried

Chief Administrative Law Judge

Chief Administrative Law Judge Loraine Seyfried leads the Commission's staff of administrative law judges who, along with the commissioners, preside over docketed proceedings before the Commission. She assists in the management of the Commission's hearing docket by making initial recommendations on case assignments and procedure, overseeing the hearing process, and providing advice in the preparation and review of Commission Orders.

Joseph Sutherland

Executive Director of External Affairs

Executive Director Joseph Sutherland leads the Commission's governmental affairs group and serves as the chief liaison for legislative issues. He is also the senior supervisory authority

over the Consumer Affairs Division. In addition, Sutherland oversees internal operations, including oversight of various ancillary functions such as information technology and public information, as well as the Commission's financial affairs and budget.

Robert Veneck

Executive Director of Technical Operations

Executive Director Robert Veneck Jr. leads the technical operations group and is the senior supervisory authority over the Commission's electricity, natural gas, water, sewer, communications, pipeline safety, and energy policy divisions. In addition, Veneck is the liaison to the State Utility Forecasting Group at Purdue University for matters requested by the Commission.

Doug Webber

General Counsel

General Counsel Doug Webber serves as the chief legal advisor to the Commission, including acting as the Commission's Ethics Officer. Attorneys under General Counsel Webber provide complete legal support for all aspects of the Commission's operation. Additionally, they conduct legal research on a wide range of issues, participate in matters before the Federal Energy Regulatory Commission, and preside over Commission rulemakings.

Legal Division

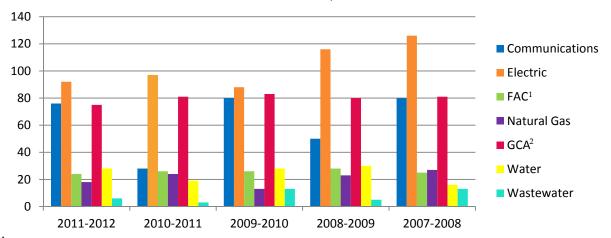
Docketed Cases

During fiscal year 2011-2012, 318 petitions were filed with the Commission, which are detailed in Chart 1. Petitions are given a docket number upon receipt and assigned an administrative law judge and a commissioner, who serve as the presiding officers. To access information pertaining to a docketed case, please visit our Electronic Document System at: https://myweb.in.gov/IURC/eds/. Here, you can search for a case by entering the docket number, industry, petition date, petition type, party or order date, and clicking "search." To watch hearings that are live streamed, please visit: www.in.gov/iurc/2624.htm.

Chart 1

Petitions Filed by Industry

Five-Year Comparison



¹FAC = Fuel Adjustment Clause

Rulemakings

Before the IURC may add or make changes to its existing rules, it must follow the formal rulemaking process. By doing so, it ensures the opportunity for public comment and allows the issues at hand to be fully vetted. In addition to the formal process dictated by state procedures, it is the practice of the IURC to hold numerous informal workshops and discussions with stakeholders prior to initiating a formal rulemaking. For example, in the recently passed rule on tree trimming, the Commission conducted six field hearings all around the state in order to allow the public even greater input into the process. Although the rule development process can extend the time the rule is discussed, it also helps achieve common ground between stakeholders before the formal process begins.

In order to make it easier for interested parties to follow the rulemaking process, the IURC redesigned its rulemaking webpage. Readers can now browse emergency, pending, and effective rules, such as the significant ones listed on the following page, in a more streamlined manner. For more information or to access documents and public comments related to these rulemakings, please visit: www.in.gov/iurc/2658.htm.

²GCA = Gas Cost Adjustment

Emergency Rules		LSA Doc#	Effective Date	
Municipal Procedures for Outside City Rates (HEA 1126)		12-433 (E)	7/11/12	
Scope of Rule: This rulemaking establishes procedures by which a municipality or users of the works whose property is located outside the corporate boundaries of the municipality may file a petition regarding certain rates and charges.				
Voluntary Clean Energy Portfolio Standard Program (SEA 251)	11-05	11-781 (E)	1/1/12	
Scope of Rule: This rulemaking implements Indiana's Voluntary Clean Energy Portfolio Standard Program, which allows utilities to qualify for financial incentives if they meet targets for including clean energy resources in their supply portfolio.				

Pending Rules	IURC RM #	LSA Doc#	Status	
Attorney Appearances in Commission Proceedings		11-590	State Review	
Scope of Rule: This rulemaking outlines requirements out-of-state atto before the Commission.	rneys mus	t adhere to wh	en practicing	
Revisions to Integrated Resource Planning 11-07 TBD Rule Development				
Scope of Rule: Integrated resource planning is a process used by electric utilities to evaluate all supply and demand-side alternatives available to meet future electricity requirements. This rulemaking stems from the IURC's Order in Cause No. 43643 to update the integrated resource planning rules based on the current utility industry standards since the rule was first published.				
Voluntary Clean Energy Portfolio Standard Program (SEA 251) 11-05 12-97 State Review				
Scope of Rule: This rulemaking implements Indiana's Voluntary Clean Energy Portfolio Standard Program, which allows utilities to qualify for financial incentives if they meet targets for including clean energy resources in their supply portfolio.				
Tree Trimming	10-04	12-42	Pending State Approval	
Scope of Rule: The subject matter of this rulemaking is tree trimming by certain electric utilities. The rulemaking stems from an IURC investigation and subsequent Order in Cause No. 43663. The rule considers notice requirements, dispute resolution, customer education, and a tree replacement program.				

External Affairs

As a governmental agency whose operations affect the public, the Indiana Utility Regulatory Commission welcomes requests from legislators on matters affecting the utility industry. Below is the general contact information for the agency; however, if you or your constituents have specific questions or concerns, please contact Joseph Sutherland, our Executive Director of External Affairs, at 317-233-4723.

Phone: (317) 232-2701 | **Consumer Affairs Division:** 1-800-851-4268 | **Web:** www.in.gov/iurc

Consumer Affairs Division

In Indiana, there are two separate state agencies that deal with utility-related issues – the IURC and the Indiana Office of Utility Consumer Counselor (OUCC). The IURC regulates rates,

charges, and service quality for most Indiana utilities, whereas the OUCC represents consumer interests in all cases before the IURC. Starting in September 2011, our agencies streamlined the dispute resolution process, directing all customer complaints about regulated utilities (e.g., disconnections, billing disputes, and metering concerns) to the IURC's Consumer Affairs Division. This means that the IURC is the best agency to contact if one of your constituents has a complaint against a regulated utility. For comments on pending cases or problems concerning a non-jurisdictional utility, please contact the OUCC. As the state's

Contact Us



Front desk: 317-232-2701

Legislative inquiries: 317-233-4723

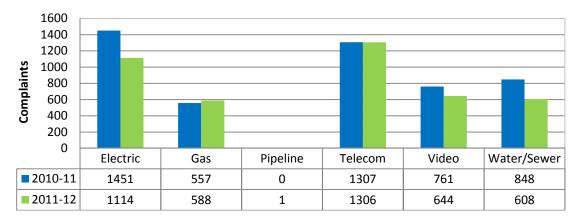
Consumer Affairs Division: 1-800-851-4268

utility consumer advocate, it is best positioned to assist with these issues. The OUCC's Consumer Affairs Division can be reached at 1-888-441-2494.

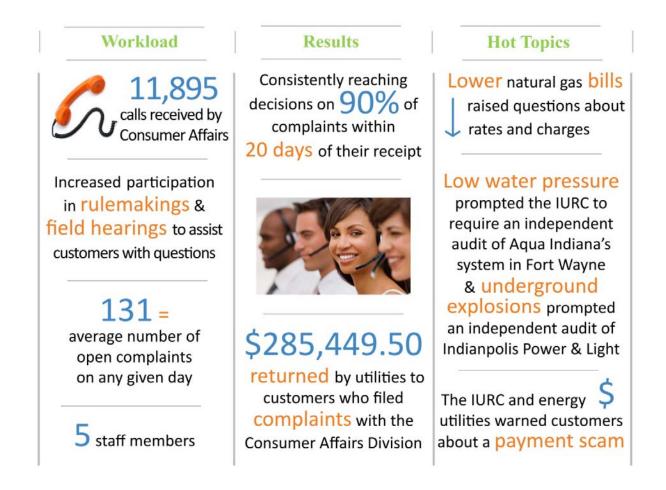
This past year the IURC's Consumer Affairs Division saw a slight decrease in the number of complaints it received. Chart 2 shows the breakdown of complaints for the past two fiscal years. These numbers show customer complaints have remained fairly stable and that no one industry experienced a spike in the number of complaints.

Chart 2

Consumer Complaints by Industry
Fiscal year 2010-2011 and 2011-2012



The most frequently received calls by the Consumer Affairs Division involve questions about billing. Typically, the questions are about rates, deposits, payment arrangements, or estimates. When an analyst from the Consumer Affairs Division is assigned to a case, he or she investigates the matter to make sure the customer is being billed correctly and that the utility is in compliance with the IURC's rules and regulations. If a problem is identified, the analyst works with the consumer to make sure the situation is remedied. In some cases, this may result in a refund for the customer, which is called an adjustment. The graphic below highlights the operations of the Consumer Affairs Division and the results it has achieved this past fiscal year.



Technical Divisions

Electricity

Electricity Division Director Dr. Brad Borum and his division monitor and evaluate regulatory and policy initiatives affecting the state's electric industry. Brad has been with the

Commission for 26 years and has a doctorate in economics. The division reviews and advises the Commission on regulatory proceedings initiated by Indiana electric utilities involving increases in rates, environmental compliance plans, permission to build or purchase power generation plants, energy efficiency programs, and other matters. It also monitors electric utility performance for reliability and service quality. The Electricity Division's staff examines information from Commission-initiated investigations and assists the Commission in developing potential rulemakings. The division is responsible for monitoring actions by regional transmission organizations (RTO) and the Federal Energy Regulatory Commission (FERC) that may affect Indiana's electric utilities. Staff also maintains the collection of annual reports for all jurisdictional electric utilities, including the periodic earnings review of each provider with more than 5,000 customers.

Due to the growing impact of regional and federal energy policies on Indiana, the IURC organized an intra-agency RTO/FERC team that has been charged with monitoring, evaluating and recommending policy and positions to the IURC executive team and commissioners. The team actively monitors the activity of the two RTOs that operate in Indiana: the Midwest Independent Transmission System Operator, Inc. (MISO) and the PJM Interconnection, LLC (PJM). The team also represents the IURC at committee meetings and participates in FERC regulatory proceedings that affect Indiana utilities and consumers. In addition to the responsibilities listed above, the RTO/FERC team provides counsel on docketed activities dealing with regional and federal energy issues that come before the Commission and works with the Integrated Resource Planning team to coordinate on matters affecting electric utilities' long-term resource plans.

Natural Gas

Natural Gas Division Director Jane Steinhauer manages her staff in monitoring and evaluating regulatory and policy initiatives affecting the natural gas utility industry. Jane has been with the Commission for 27 years and has a master's degree in business administration. The division is responsible for examining and evaluating proceedings involving gas cost adjustments, rates, service territories, Commission-initiated investigations and industry-related rulemakings. This includes analyzing various forms of alternative regulatory proposals.

Additionally, the division's responsibilities include advising the Commission on policy-related matters (e.g., gas procurement practices) and financial matters that are directly related to utility proposals requesting authority to adjust current rates and charges. The division verifies the accuracy of filings from utilities and other parties as a result of cases or regulatory compliance mandates. Staff also maintains the collection of annual reports for all jurisdictional natural gas utilities, including the periodic earnings review of each provider with more than 5,000 customers. The division also coordinates with the Pipeline Safety Division, which administers federal and state pipeline safety standards that apply to all intrastate natural gas and hazardous liquid pipeline operators, regardless of whether they have withdrawn from the Commission's jurisdiction.

Pipeline Safety engineers enforce the safety standards established by the U.S. Department of Transportation as they apply to the design, installation, inspection, testing, construction, extension, operation, replacement and maintenance of the pipeline facilities. The division also enforces the U.S. Department of Transportation's anti-drug program for gas operators within Indiana, as well as integrity management, operator qualification, and damage prevention regulations. In addition, the division is responsible for investigating possible violations of the "Call Before You Dig" law.

Communications

Communications Director Pamela Taber and her staff manage Indiana-specific issues related to video and telecommunications services. Pamela has been with the Commission for 29 years and has a bachelor's degree in accounting. She is also a Certified Public Accountant. The division executes IURC oversight as the sole video franchise authority in Indiana and provides policy advice on telecommunications issues, such as numbering and area code issues; slamming and cramming; telecommunications providers of last resort; and disputes between carriers. The division also oversees the certification of communications service providers and monitors competition in the communications industry by gathering, tracking and storing information about all types of communications providers and the areas where they offer their services.

Communications issues under consideration at the federal level are also an important concern of the Communications Division. Because it is essential to identify and when appropriate, act

upon the many federal policy matters that have the potential to affect Indiana's economy, the division monitors, reviews, and provides analysis and recommendations to the commissioners regarding possible Commission participation in federal rulemakings and cases. This assures that the concerns and needs of Indiana are heard by agencies such as the Federal Communications Commission, the National Telecommunications and Information Administration, the Rural Utilities Service, and others, including vigorous opposition to proposals and policies which would preempt state statutory jurisdiction or put Indiana's communications environment at risk.

Water and Wastewater

Water and Wastewater Director Curt Gassert and his team develop, monitor, and evaluate regulatory and policy issues affecting the water and wastewater industries. Curt has been with the Commission for 6 years and has a bachelor's degree in accounting. Prior to this position, he was with the OUCC for 11 years. He is also a Certified Public Accountant. The majority of the division's time is spent advising the Commission on technical matters, as well as reviewing pending rate cases.

The Water and Wastewater Division staff also provides assistance with utility investigations, Commission rulemakings, and complaints submitted to the Consumer Affairs Division. Billing disputes and the disconnection of service are the most common type of consumer complaint. The Commission's investigations, both formal and informal, frequently involve the resolution of problems created by small troubled water or wastewater utilities. Typical rulemakings include developing policies for water meter testing standards and criteria for processing differing types of utility requests for rate increases.

The division also processes requests by water and wastewater utilities to change rates and charges through the 30-day filing process. The 30-day filing process is designed to allow certain types of requests, such as changes to reconnect fees and adjustable rate mechanisms (trackers), to be reviewed and approved by the Commission in a more expeditious and less costly manner than a formal docketed case. Additionally, staff maintains the collection of annual reports for all jurisdictional water and wastewater utilities, including the periodic earnings review of each provider with more than 5,000 customers.

2012 Electricity Report

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I. Executive Summary

The Electricity section of the Regulatory Flexibility Report discusses key issues facing the industry. These topics include competitive pricing, proposed environmental regulations, integrated resource planning, and energy efficiency programs. It also highlights actions taken by the Commission to address specific challenges associated with these topics.

Competitive Pricing

Indiana's annual ranking for average total customer retail rates from 2000 to 2011 ranged from 9th lowest in 2000 to 4th lowest in 2002 to 13th lowest in 2011. Neighboring states' total customer retail rates for 2011 rank as follows: Kentucky 4th, Illinois 26th, Ohio 27th, and Michigan 35th. Comparatively speaking, Indiana's average retail prices for electricity have been and are presently very competitive both nationally and regionally. However, this could change should new environmental regulations go into effect.

Proposed Environmental Regulations

Based on preliminary analysis, recent environmental decisions being made at the federal level have the potential to seriously impact the state of Indiana. Given the number of new requirements, the tight timeframes to comply with the regulations, and Indiana's reliance on coal, costs are expected to be significant. According to the State Utility Forecasting Group (SUFG), new federal clean air regulations are projected to raise Indiana electricity rates about 14% by 2020, which is in addition to the 20% increase projected over the next six years by analysts. The impact is greater here than in other states because coal-fired power plants targeted by the U.S. Environmental Protection Agency for environmental modifications generate about 82% of the electricity used in Indiana (down from 85% in 2010), compared with 45% nationwide.

Integrated Resource Planning

According to the SUFG's 2011 forecast, the state will need approximately 2,600 MW of additional resources by 2020 to meet expected demand growth and maintain a 15.8% reserve margin. The forecast also projects that electricity usage will grow at an annual rate of 1.30% over the 20-year forecast and that peak demand will grow at an annual rate of 1.28%. To address

growing demand, each utility creates an integrated resource plan (IRP) and submits it to the Commission every two years. In order to make the process more transparent and inclusive, the Commission is soliciting input from stakeholders and is in the process of drafting a new IRP rule.

Energy Efficiency Programs

In order to improve efficiency and reduce demand, the Commission issued a decision in 2009 that required the utilities to achieve annual energy savings goals through the implementation of demand side management (DSM) or energy efficiency programs. DSM programs benefit consumers by saving energy, which is the most cost-effective way of meeting future energy supply needs. In response to the Commission's decision, a statewide program called Energizing Indiana was launched in January 2012. Energizing Indiana is a united effort by the Indiana Office of Utility Consumer Counselor, participating utilities, and consumer organizations to offer consistent energy efficiency programs across the state. According to the third-party administrator, GoodCents, the program reached 6,663 Indiana homeowners within 6 months, saving more than 7,119,144 kWh.

II. Overview

Industry Structure

The Indiana Utility Regulatory Commission (Commission or IURC) regulates Indiana's electric utilities due to the monopolistic nature of the industry. This relationship is often described as the "regulatory compact," which means that in return for government regulators

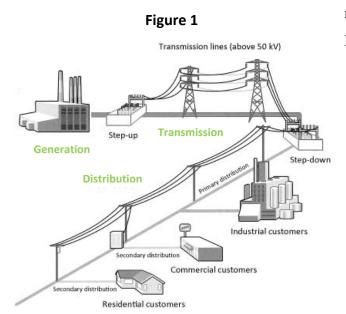
granting exclusive service territories and setting rates in a manner that provides an opportunity (but not a guarantee) for a reasonable return on investment, investor-owned utilities (IOUs) are obligated to provide adequate service to customers. Other types of electric utilities, rural electric membership cooperatives (REMCs), and municipal electric utilities, also have exclusive service territories, but

The Commission has jurisdiction over the electric service provided to approximately 2.6 million customers in Indiana. In 2011, Indiana's average retail rates were the 13th lowest in the nation.

may withdraw from the Commission's jurisdiction. In 2011, more than \$8.4 billion in revenue was generated and more than 2.6 million electric customers were served by the 18 electric utilities under Commission rate jurisdiction.

Regulatory Structure

Indiana's electric utilities operate under a traditional vertically-integrated structure, whereby they own and operate generation, transmission, and/or distribution facilities that provide electric



retail service to customers. As shown in Figure 1, electricity goes through a series of steps before it is available for consumption. During this process, the electricity voltage is stepped-up (increased) or stepped-down (decreased) depending on the level of voltage required to provide service.

There are two types of electric utility customers: retail and wholesale. Retail

customers include residential, commercial, and industrial customers who are billed for service based on studies analyzing the costs associated with providing service for each class. For IOUs, a reasonable rate of return on investment for the company is added to the cost of service. Wholesale customers, on the other hand, include other electric utilities, cooperatives, and municipalities that resell energy to retail consumers.

In addition to setting rates for retail customer classes, the Commission reviews and approves long-term financing for IOUs, the Indiana Municipal Power Agency (IMPA), and Wabash Valley Power Association (WVPA). Additionally, all Indiana electric utilities wanting to build, buy, or lease new generation facilities must first have their proposals reviewed and approved by the Commission. This process is further discussed on page 32.

- Investor-Owned Utilities -

Five major IOUs operate in Indiana in exclusive service territories with other portions of the state similarly assigned to municipal utilities and REMCs.¹ IOUs are for-profit enterprises funded by debt (bonds) and equity (stock). Indiana's IOUs are vertically integrated, which means they own facilities for the generation, transmission, and distribution of electricity. Map 3 on page 25 shows the IOUs' service territories.



Duke Energy Indiana, Inc. (DEI), a subsidiary of Duke Energy Corporation, is headquartered in Charlotte, NC and based in Plainfield, IN. The utility serves 783,000 customers in 79 of the 92 counties throughout central and southern Indiana, excluding the cities of Indianapolis and Evansville. DEI just

celebrated its 100th anniversary as a company.

Indiana Michigan Power Company (I&M), a subsidiary of American Electric Power Company, Inc. (AEP), is headquartered in Columbus, OH and based in Ft. Wayne, IN. The utility serves 458,000 customers in two, noncontiguous parts of northeast and north central Indiana.



¹IC § 8-1-2.3-3



Indianapolis Power and Light Company (IPL), a subsidiary of the AES Corporation, is headquartered in Arlington, VA and based in Indianapolis, IN. The utility serves 468,000 customers in the greater Indianapolis area.

Northern Indiana Public Service Company (NIPSCO), a subsidiary of NiSource Inc., is headquartered and based in Merrillville, IN. The electric utility serves 457,000 electric customers in the northern part of Indiana. NIPSCO just celebrated its 100th anniversary as a company.





Southern Indiana Gas & Electric Company (SIGECO), a subsidiary of Vectren Corporation, is headquartered and based in Evansville, IN. The electric utility serves 146,000 customers in a small part of southwestern Indiana.

- Municipally-Owned Utilities -

State law allows municipal utilities to remove themselves or "opt out" of the Commission's jurisdiction.² Under certain circumstances, the Commission may review financing arrangements for individual municipal electric utilities, but this typically occurs through rate cases. As of the

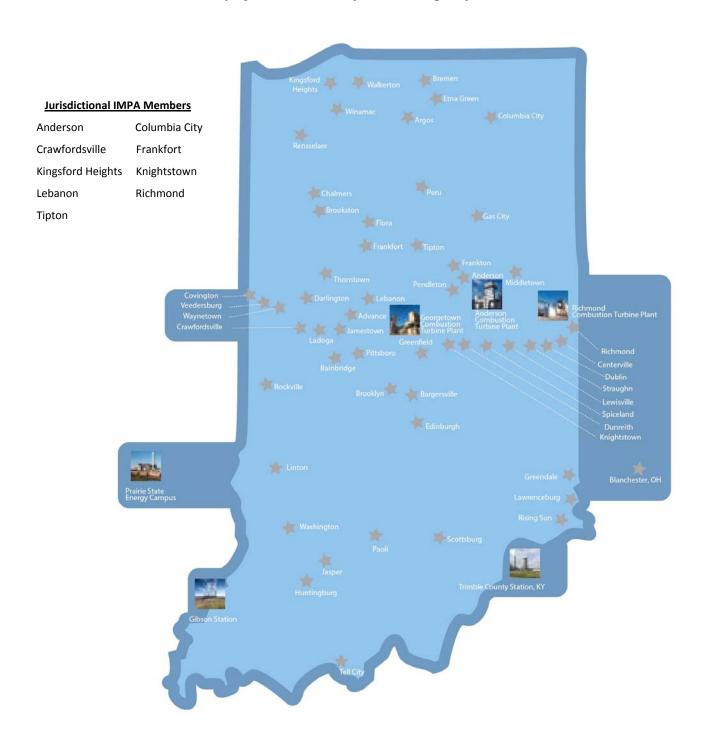
printing of this report, 11 of the 72 municipally-owned utilities operating in Indiana remained under the Commission's jurisdiction for rate regulation. For a complete list of the regulated municipal utilities and those that have opted out, please see Appendix B. Of these 72 municipally-owned electric utilities, 51 are members of the IMPA, including 9 of the 11 utilities regulated by the Commission.

When a utility opts out of the IURC's jurisdiction, the agency no longer oversees its rates and charges or rules and regulations.

In 1980, a group of municipalities created the IMPA to jointly finance and operate generation and transmission facilities, as well as purchase wholesale power and meet members' needs through a combination of member-owned generating facilities, member-dedicated generation, and purchased power. Map 1 shows the locations of these member utilities.

²IC § 8-1.5-3-9

Map 1
Statewide Map of Indiana Municipal Power Agency Members



Source: Indiana Municipal Power Agency

- Rural Electric Membership Cooperatives -

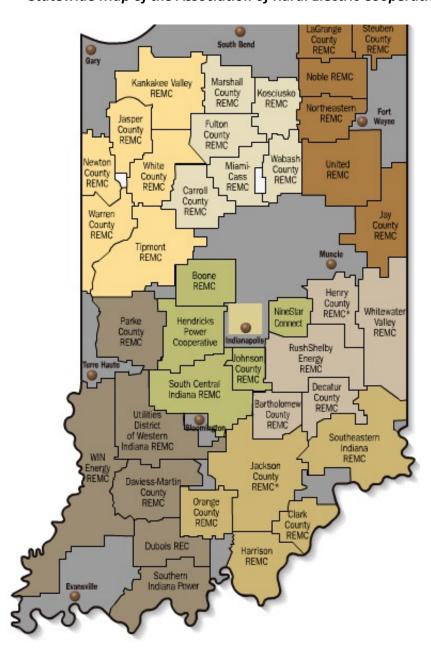
Rural electric membership cooperatives (REMCs) are customer-owned utilities, all of which are members of either Hoosier Energy located in the southern part of the state or WVPA located in the northern part of the state.

Map 2 shows the location of these member utilities.

Hoosier Energy and WVPA are power generating and transmission cooperatives formed to supply power to the REMCs. The Commission's regulation of Hoosier Energy and WVPA is primarily limited to decisions to purchase, build, or lease generation facilities. In addition, the Commission retains jurisdiction over WVPA's long-term financing.

REMCs, like municipalities, have the ability to remove themselves or "opt out" of the Commission's jurisdiction.³ As of the printing of this report, only Northeastern REMC remained under the Commission's jurisdiction for rate regulation.

Map 2
Statewide Map of the Association of Rural Electric Cooperatives



Source: Indiana Statewide Association of Rural Electric Cooperatives

³IC § 8-1-13-18.5

How Indiana Compares

Indiana's average retail prices for electricity have been and are presently competitive both nationally and regionally. Retail prices are the average price for all rate classes, including residential, commercial, and industrial customers.

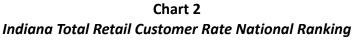
Indiana's annual ranking for average total customer retail rates from 2000 to 2011 ranged from 9th lowest in 2000 to 4th lowest in 2002 to 13th lowest in 2011. The variability in ranking is the result of many factors, including the timing of rate cases both in and out of state and fluctuations in the cost of fuel. Chart 1 shows how Indiana compares to other states for 2011 average electricity prices.

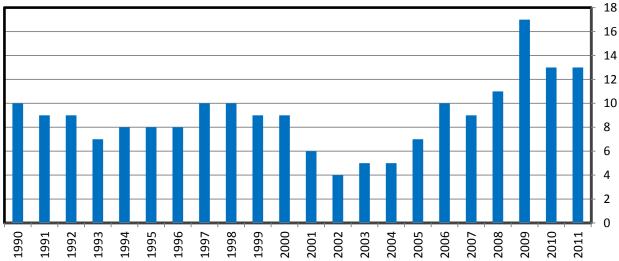
Neighboring states' total customer retail rates for 2011 rank as follows: Kentucky 4th, Illinois 26th, Ohio 27th, and Michigan 35th. Chart 2 shows Indiana's national rankings over the past 20 years and how they have fluctuated.

Chart 1
2011 State Average Electricity Prices
(cents/kWh)



Source: Energy Information Administration





Historically, Indiana's use of coal as a fuel source for electricity generation has contributed to the state's relatively low-cost electricity. However, the general trend of increased coal prices

observed since 2003 has reduced Indiana's relative price advantage. Some of the factors driving the coal cost increases are as follows:

- Increasingly difficult permitting requirements; and
- International competition for domestic supply.

Because of the extensive use of coal in Indiana, these factors have led to an increase in utility fuel costs and in customer rates.

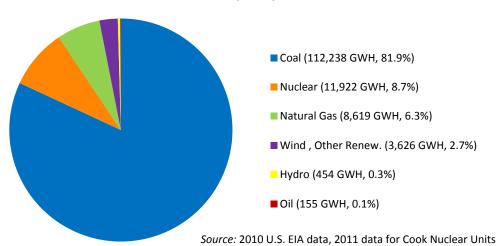
Historically, Indiana's use of coal has contributed to its relatively low-cost electricity; however, costs have increased in recent years due to a number of factors. Coalfired generation accounts for about 82% of the projected 2011 energy production for Indiana customers, which is down from 85% in 2010.

Existing Generation Portfolio

Coal-fired generation accounts for about 82% of the projected 2011 energy production for Indiana customers, as shown in Chart 3. The second highest is nuclear generation at 8.7%. Although Indiana does not have a nuclear plant within the state, customers in the northeastern portion of Indiana are served by I&M's Cook Nuclear Generation Station located in Bridgman, Michigan. Each year the amount of coal used for electric generation has steadily decreased and

will likely continue to do so because of a significant decline in natural gas prices in the past 18 months, which is more fully discussed in the Natural Gas section of this report.

Chart 3
Projected Generation Of Electricity By Fuel Type For Indiana
Consumers (2011)



Over time, it is normal for power plants to produce less than what they could produce if run at full capacity. This ratio of actual energy output to potential output is referred to as a capacity factor. The capacity factors of power plants vary depending on technology, resource, and

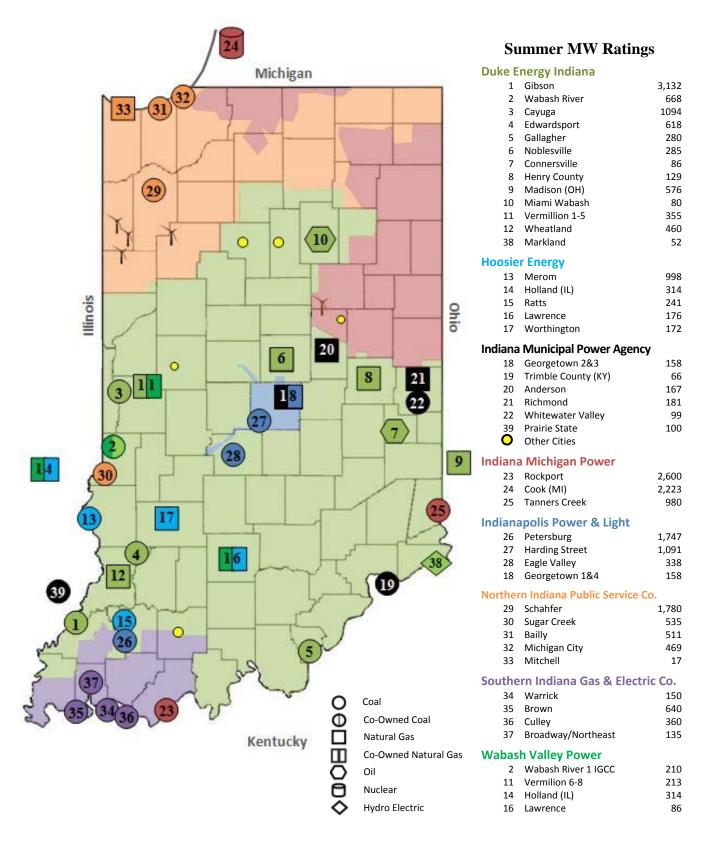
Fuel Type Comparison 2010 vs. 2011



	<u>2010 2011</u>
Coal:	85.0% ↓ 81.9%
Nuclear:	8.5% ↑ 8.7%
Natural Gas:	4.4% ↑ 6.3%
Wind, Other Renew.:	1.6% ↑ 2.7%
Hydro:	0.4% ↓ 0.3%
Oil:	$0.1\% \leftrightarrow 0.1\%$

purpose. Nationally, capacity factors are typically more than 90% of the potential output for nuclear, 70-90% for large coal units, 20-40% for wind, and 10-15% for solar photovoltaics. When considering the makeup of a generation portfolio, a utility takes capacity factors into account in order to maximize efficiency and the total output of its investments. The following map shows the location, size, and fuel type of the largest sources producing electricity for Indiana's customers.

Map 3
Statewide Map of Electric Generation Serving Indiana



Regional Transmission Organizations

Two regional transmission organizations (RTOs) operate in Indiana: the Midwest Independent Transmission System Operator, Inc. (MISO) and PJM Interconnection, LLC (PJM).

These organizations are regulated by the Federal Energy Regulatory Commission (FERC). In addition to operating the regional transmission facilities in a reliable and non-discriminatory manner, MISO and PJM direct the operation (in real time) of all generating facilities in their respective regions to ensure that the lowest-cost combination of generation resources is being used at any given

There are two regional transmission organizations operating in Indiana: MISO and PJM. These entities dispatch all of the generating facilities in their regions to ensure that the lowest-cost combination of resources is used at any given moment.

moment. Additionally, RTOs engage in long-term transmission planning in conjunction with their transmission-owner utilities, some of which are under the IURC's jurisdiction. Further detail is provided in Table 1.

MISO

Map 4

MISO (red) and PJM (blue) Reliability Coordination Area

Source: www.miso-pjm.com

Table 1

Characteristics of the Regional Transmission Organizations

Midwest Independent System Operator and PJM Interconnection, LLC

RTO Characteristics	MISO	PJM	
Participating Indiana Utilities	DEI, NIPSCO, IPL, SIGECO, Hoosier Energy, IMPA, and WVPA	AEP (including its Indiana subsidiary I&M), IMPA, and WVPA	
Transmission Lines	49,641 miles	65,441 miles	
Generation Capacity	131,178 MW	185,600 MW	
Headquarters	Carmel, Indiana	Valley Forge, Pennsylvania	

Participation in RTOs provides a number of benefits for Indiana's electric consumers. In addition to greater reliability, RTOs provide lower costs through more efficient regional transmission planning than is possible when individual utilities act alone. The vast regional scope

RTO Net Benefits in 2011



In 2011, the MISO region realized net benefits of \$2.2 to \$2.7 billion, while the PJM region realized net benefits of \$2.2 billion. During the next 10 years, MISO anticipates that the region will realize between \$6.1 billion and \$8.1 billion in benefits on a net present value basis.

Source: www.midwestiso.org/WhatWeDo/ValueProposition/Pages/ValueProposition.aspx

Source: www.pjm.com/~/media/documents/presentations/pjm-value-proposition.ashx

of the RTOs allows Indiana's customers to experience the financial and operational benefits of a diverse resource mix and variations in customer demand. For example, Indiana might experience peak demand due to hot weather while Montana may have more moderate weather, which allows Indiana's demand to be satisfied with relatively lower-cost Montana resources.

Additionally, because the reliability risk is diversified over the entirety of the RTOs' footprints – from the Rocky Mountains to the Atlantic Ocean – reserve margin needs are reduced. A reserve margin is the amount of extra capacity available to serve

customer loads in the event of a system contingency, such as the planned or unplanned outage of a generation plant or a high-capacity transmission line. The electric industry has historically maintained planning reserve margins in the 15% to 20% range.⁴ However, with the development of RTOs, the necessary level reserve margins has fallen, reflecting the benefits of more efficient regional coordination. For example, Indiana utilities participating in the MISO have an 11% reserve requirement for 2012-13.

While participation in RTOs provides benefits to Indiana's end-use customers, it is challenging to translate the costs and revenues associated with RTO participation into the traditional cost-of-service model used to set rates in Indiana. To better ensure that Indiana customers and utilities receive the benefits of participating in RTOs, the Commission has staff dedicated to participating in the RTOs' processes. Because of the important and pervasive impact of the RTOs on Indiana's utilities and their customers, the Commission's involvement with the FERC has also increased dramatically to ensure that Indiana's utilities are providing safe, reliable energy at reasonable prices.

Age Profile

Aging infrastructure is a concern across all utility sectors. For the electric industry, an aging

generation fleet is particularly concerning due to the potential risk to system reliability and the rising costs associated with the construction of new power plants. Although generation plants are designed to last decades, it is important for the utilities to monitor their condition, as the last coal-fired generation unit constructed in Indiana was completed in 1989. The IMPA recently added two new coal-fired units to its

Aging Coal-Fired Generating Units



This past year the number of coalbased units greater than 50 years old increased by 6. In 2010, there were 21 units, and in 2011, there were 27 units out of 64 units total.

portfolio to serve Indiana customers. One unit is a 96 MW share of Trimble County Unit 2, located in Trimble County, KY. It was completed in 2011. The other unit is a 100 MW share of

⁴Planning reserve is the amount of forecasted dependable resource (i.e., generation, demand-response) capacity required to meet the forecasted demand for electricity and reasonable contingencies (e.g., loss of a major generating unit). Operating reserve is the generating capability (spinning and non-spinning reserve) above firm system demand needed to provide for regulation, load forecasting errors, scheduled and unplanned equipment outages and local area protection.

Prairie State Unit 1 in Southwestern Illinois that went into commercial operation on June 6, 2012. It is the newest coal-fired unit serving Indiana customers.

In recent years, Indiana's utilities have purchased incremental electricity from other sources rather than building their own power plants to maintain required power reserves. Because it takes approximately three years to construct new gas-fired peaking generation, five to ten years to construct new conventional coal-fired generation, and still longer to bring new nuclear generation online, long-term planning is critical. Table 2 shows the age profile for the coal and natural gas-fired fleets owned by Indiana's utilities.

Table 2

Age Profile of Generating Units Owned by Indiana Utilities

Separated by Coal-Based Units and Gas Generation Units

Years Old	Number of Coal- Based Units	MW of Generation (Summer Rating)	Percent of Total Coal-Based Generation
Over 50	27	1,995.7	13.0%
40-50	14	3,144.9	20.5%
30-40	14	6,533.1	42.5%
20 -30	8	3,595.7	23.4%
10-20	0	0	0
0-10	1	96.0	0.6
Total	64	15,365.4	100%

Years Old	Gas Units (Peaking)	MW of Generation (Summer Rating)	Percent of Total Gas Generation (Peaking)
Over 50	2	4.0	0.1%
40-50	7	95.2	2.7%
30-40	3	220.0	6.2%
20 -30	5	224.0	6.3%
10-20	34	2,738.7	77.4%
0-10	3	255.4	7.2%
Total	54	3,537.3	100%

Coal units commonly become candidates for retirement past the age of 40, with most retiring by age 60. As demonstrated in Table 2, more than 30% of the total coal-fired generation is greater than 40 years old, and about 75% of the total coal-fired generation is greater than 30 years old. Natural gas-fired generation is much newer; only 15% of that fleet is greater than 20 years old. However, because gas-fired combustion turbines generally have higher marginal operating costs than coal-fired units, they typically operate only during periods of peak demand. With regard to nuclear generation, Cook Units 1 and 2 became operational in the 1970s and were re-licensed for commercial operation until 2034 for Unit 1 and 2037 for Unit 2.

Legal and Policy Foundations

Because electricity cannot be effectively stored on a large scale, generation resources owned by utilities must be economically dispatched such that generation matches customer demand.

This means the lowest-cost generation resources are used first, with successively more expensive units coming online until total customer demand is met at any given point in time. Consequently, Indiana's utilities are responsible for short-term planning. They are also responsible for long-term resource planning to meet customer demand at the lowest reasonable cost, while

CWIP and AFUDC provide cost recovery for utilities building new generation.

Depending how these mechanisms are applied, costs can vary for consumers.

providing safe, adequate, and reliable service. In order to help the utilities meet their charge, policies such as allowance for funds used during construction (AFUDC) and construction work in progress (CWIP) have been enacted by the General Assembly. These policies provide cost recovery for utilities building new generation.

Allowance for Funds Used During Construction

AFUDC is an accounting procedure that tracks the estimated composite interest incurred from using borrowed and internal funds during a construction project. AFUDC is accrued until the plant is placed in service or otherwise allowed recovery through an approved CWIP tracker. Depending on the construction project, the amount of AFUDC can be considerable.

Construction Work in Progress

CWIP deals with the timing and cost recovery of capital projects during the construction phase. It provides the funds to pay the financing costs for capital expenditures during construction and is funded by the ratepayers through a tracker, which is further discussed on page 37. Often referred to as "pay as you go" financing, CWIP provides a utility with positive cash flows. By allowing construction projects to be tracked periodically, the eventual cost of the

Construction work in progress is often referred to as "pay as you go" financing.

plant is less because the AFUDC stops, thereby saving ratepayers from paying for the recovery of these additional costs.

However, one of the concerns is that ratepayers incur the financing costs of construction on a plant that is not yet

"used and useful." In other words, ratepayers theoretically are paying for a plant without a guarantee it will ever go into service. Another concern rests with utilities avoiding full rate cases, which is where all expenses are reviewed, including those associated with the plant. By recovering costs related to the construction of the new plant or capital project outside of a full rate case, the need for utilities to have periodic full review of their rates can be significantly decreased. Many costs incurred by utilities increase and decrease over time, so without periodic full rate cases customers can be subject to certain increases through the use of trackers for large capital expenditures without the balance created from other costs decreasing.

This concept became a point of controversy in the 1970s because of the extraordinary costs and long timelines involved in major nuclear construction projects. Therefore, in the 1980s, the General Assembly enacted several statutes that permitted the Commission to apply this special regulatory treatment to certain projects. These projects include those deemed to be clean coal, as well as existing nuclear generation facilities that serve Indiana, the latter of which was signed into law during the 2011 legislative session.

Utilities assert that if CWIP were employed more frequently, consumers would benefit over the long term because the costs of construction would actually be put into rate base as they occur, rather than being delayed until a utility's next rate proceeding. By adding expenditures as they occur, shareholders receive their rate of return sooner, which theoretically reduces the cost of the project over the long term, because a utility would require less revenue to support the project on a going forward basis. Additionally, the use of CWIP spreads the rate impact of a large construction project over several years so that ratepayers are not exposed to a single large rate increase.

III. Landscape

Infrastructure

In order to bring new generation online, the law requires utilities to receive approval from the Commission through the certificate of need process. This process provides the IURC and

interested parties with an opportunity to evaluate the merits of a project before it is undertaken. If the Commission approves the project, the utility is granted a certificate of public convenience and necessity (CPCN); only utilities that intend to own or lease a generation facility must seek a CPCN. In cases where the utility just wishes to enter into a purchase power agreement

A CPCN provides the IURC and interested parties with an opportunity to evaluate the merits of a project before it is undertaken.

(i.e., a long-term contract between two parties), a separate review process is conducted by the IURC.⁵ Like the CPCN process, a utility must file a petition with the Commission seeking approval in order to determine prudency for the purposes of future cost recovery.

Project Approval and Integrated Resource Planning

To obtain a CPCN, a utility must provide supporting analysis demonstrating that the proposed project meets criteria in IC § 8-1-8.5-5(b). Therefore, the CPCN application must be consistent with the utility's resource planning, thoroughly analyzing various risks and uncertainties, to ensure adequate planning for the future. In order to assess future plans, each utility is required to file an integrated resource plan (IRP) with the IURC every two years. The goal of the IRP process is to evaluate all supply and demand-side alternatives reasonably available to meet a utility's future electricity requirements.

⁵Purchase power agreements are generally filed under IC § 8-1-2-42(a) or IC ch. 8-1-8.8.

Because many changes have occurred since the IRP rule was finalized in 1995, the IURC initiated a rulemaking in 2010 to update it. The rulemaking process included a two-day technical conference in September 2011 to solicit input from stakeholders, including consumer groups, the Indiana Office of Utility Consumer Counselor (OUCC), and the utilities. At the conference, stakeholders discussed numerous issues such as objectives, treatment of uncertainty, the review process, and how to foster public participation. The IURC circulated a Strawman Draft Proposed Rule to stakeholders for comment in January 2012. Then in August 2012, the IURC circulated a Draft Proposed Rule for comment. The IURC expects to issue its Notice of Intent in the fall of this year, with spring of 2013 as the anticipated date for completion.

Types of Generation

Over the next 15 years, the state's electricity demand is forecasted to steadily increase, while many aging coal-fired units will be facing retirement or premature shutdown due to tightening environmental regulations. Consequently, this era is expected to have far greater build-out of new generation than either of the past two decades. At the same time, lifetime cost assessments of new generation units are expected to be increasingly difficult to estimate, due in large part to federal regulatory uncertainty and upward pressure on the prices of inputs like materials, construction, and fuel. Therefore, the Indiana power sector is entering into a period of unprecedented planning difficultly at a time when resource planning is increasingly necessary, especially over the next few years.

Based on the current direction of the U.S. EPA, by around 2015 Indiana will need to retrofit or retire an unprecedented wave of coal-fired generation units and replace them with a combination of new resources, due to likely environmental regulations and a large number of older coal units lacking sufficient controls. This will require the utilities to make substantial capital investments in order to meet U.S. EPA mandates, which will likely result in significant electric rate increases for Hoosier customers. The primary replacement fuel, based on current information, is expected to be natural gas, with wind and demand side management also expected to play key roles. Nuclear, integrated gasification combined cycle technology, and other alternative resources could also play a role in meeting Indiana's resource requirements.

- Edwardsport IGCC -

In an Order issued on November 20, 2007, the Commission granted a CPCN and approved the construction of DEI's Edwardsport Integrated Gasification Combined Cycle (IGCC) generating facility, which will have a capacity of 618 MW. Once complete, the Edwardsport IGCC facility will be the first commercial-scale clean coal plant of its kind built in the United States. The facility is located on approximately 220 acres adjacent to DEI's existing Edwardsport Generating Station in Knox County. The project is nearly complete. Commercial operation is expected to begin in the 1st quarter of 2013.

The Commission initially approved a cost estimate for the plant at \$1.985 billion in 2007. However, in 2009 the figure was revised by the company and approved by the Commission at \$2.35 billion. DEI has since filed a second request with the IURC to revise the cost estimate again, under Cause No. 43114 IGCC 4-S1. Due to the complexity of this case, it has since been expanded by the Commission to include two phases. Phase I addresses Commission review of the utility's progress reports, the proposed cost estimate increase, and the reasonableness of going forward with the project. Phase II, on the other hand, addresses allegations made by intervening parties of fraud, concealment, and/or gross mismanagement associated with the project. Public hearings in this case spanned 25 days throughout October 2011 and January 2012.

On April 30, 2012, a proposed settlement agreement, reached by less than all of the parties, was filed in this case. The proposed settlement states the construction costs of the project will be subject to a \$2.595 billion hard cost cap. This excludes additional AFUDC and any force majeure events. The proposed settlement also contains certain provisions that lessen the project's rate impact on customers and pledges there will not be any increases to base rates and charges prior to April 1, 2014. Public hearings on the settlement agreement spanned four days in

⁶The plant will also be able to run on natural gas, though doing so reduces capacity by approximately 128 MW. ⁷Cause No. 43114 IGCC 1

⁸The proposed settlement was entered into by DEI, the OUCC, the Duke Energy Indiana Industrial Group, and Nucor Steel-Indiana.

⁹The total estimated cost of the project is now approximately \$3.3 billion or approximately \$700 million more than the hard cap agreed to in the proposed settlement agreement.

¹⁰If the settlement is approved, DEI estimates that the average peak year retail rate impact will be approximately 14.5%, when compared with 2009 actual retail revenues. Through the IGCC rider, 4.9% of the 14.5% estimated increase is already being recovered.

July. With the completion of the procedural schedule, the Commission expects to render a decision in this case before the end of the year.

- Wind Generation -

Indiana has become one of the fastest growing states for the development of wind farms, many of which are currently located in Benton, Newton, and White counties. The most recently

announced wind farm is the Wildcat Wind Farm in Madison, Grant, Howard, and Tipton counties, an outgrowth of I&M adding another 100 MW of wind power to its generation portfolio as part of a 20-year power purchase agreement with E.ON Climate and Renewables.

With more and more wind generation coming online, the MISO recently created a centralized wind forecasting system, which has helped it better predict available wind resources on an hour-to-hour basis. Forecasting accuracy is improving significantly and will allow grid operators to more efficiently integrate wind projects onto the grid. For example, the MISO's increased use of wind forecasting has enabled dependency on wind

Hammond

Spartan

Fowler, Ridge

Fort Whyte Part

Wind Farm
Anderson

Sala

Bloomington

Bloomington

Found

Fowler, Ridge

Fort Whyte Part

F

The MISO's increased use of wind forecasting has enabled dependency on wind during peak times to increase from 8% to 14.7% in recent years.

during peak times to increase from 8% for 2010 to 12% for 2011 and now to 14.7% for 2012.

Unlike conventional power resources, wind power is weather-driven and intermittent, meaning it cannot be dispatched to match increases in demand; however, it can

be taken offline very quickly.¹¹ This function is valuable during times of grid congestion and during minimum demand. Using the capacity credit, a 100 MW wind farm would typically have

¹¹Dispatchability is the ability of a power plant to alter its output quickly to a desired level.

an expected output of 14.7 MW (14.7% of its nameplate capacity¹²) during the summer peak periods. The limited ability of wind to reliably meet demand at times of highest need puts it at a disadvantage when compared to conventional generation technologies. However, there are means of compensating for the intermittent nature of wind. For instance, when wind output drops, natural gas units can be dispatched to fill the void, because they can start up quickly. As a result, the MISO announced in 2011that wind can be designated a "dispatchable intermittent resource" and can, therefore, fully participate in its real-time energy market. As shown in Table 3, Indiana wind is projected to provide 196.6 MW of generation during these peak periods.

Table 3
Specifications of Indiana Wind Farms

Wind Projects	County	Nameplate Capacity (MW)	Estimated Generation at Indiana Peak Hour (MW) (See note 1)	Completion Date
Benton County Wind Farm	Benton	130.5	19.2	2008
Fowler Ridge Wind Farm I	Benton	301.3	44.3	2009
Fowler Ridge Wind Farm II-A	Benton	199.5	29.3	2009
Fowler Ridge Wind Farm II-B	Benton	150.0	0	See note 2
Fowler Ridge Wind Farm III	Benton	99.0	14.6	2009
Hoosier Wind Farm	Benton	106.0	15.6	2009
Meadow Lake Wind Farm I	White	199.7	29.4	2009
Meadow Lake Wind Farm II	White	99.0	14.6	2010
Meadow Lake Wind Farm III	White	103.5	15.2	2010
Meadow Lake Wind Farm IV	White	98.7	14.5	2010
Meadow Lake Wind Farm V	White	100.8	0	See note 3
Spartan Wind Farm	Newton	101.0	0	See note 2
Wildcat Wind Farm I	Madison/Tipton	100.0	0	See note 4
TOTAL		1,789.0	196.6	

Note 1: Assumes 14.7% of nameplate capacity (Midwest ISO wind capacity credit) will be available during summer peak.

Note 2: Construction has not begun.

Note 3: Approximately one mile of access roads have been completed. Construction is currently suspended.

Note 4: Construction has begun and the expected completion date for the wind farm is December 31, 2012.

¹²Nameplate capacity is the intended full–load sustained output of a facility.

- Biomass Generation -

Biomass generally consists of: 1) woody residues from forest management activities and the pulp and paper industry; 2) municipal solid waste such as waste paper, cardboard, wood waste and yard cuttings; and 3) agriculture crop residues and animal waste. The decomposition of biomass is what produces fuel, such as landfill gas and coal bed methane. Landfill gas is the primary biomass fuel used to generate electricity in Indiana and is more fully discussed in the Natural Gas section of this report. According to IURC data, the current total operating generation capacity from Indiana's landfills for use by Indiana consumers is 47 MW.

- Nuclear Generation -

I&M utilizes the Cook Nuclear Generation Station located in Bridgman, Michigan to serve customers in Indiana and Michigan. Approximately 65% of the Cook plant costs and power generated are allocated to Indiana retail customers. This facility has two pressurized water reactors: Unit 1, which has a nameplate capacity of 1,048 MW and Unit 2, which has a nameplate capacity of 1,107 MW. To extend the life of these units, I&M will need to implement a systematic replacement plan involving many of the plant's parts, some of which are no longer commercially available. To begin this process, I&M filed a petition with the Commission on April 13, 2012 requesting approval for its Life Cycle Management Project. The cost estimate for the project is \$1.17 billion, with an estimated completion date in 2018. Hearings on the project are set to begin mid-October.

Pricing and Economics

Indiana's regulatory statutes include adjustable rate mechanisms (trackers) for certain expenses and capital investments. Tracking mechanisms provide timely recovery of specifically-defined costs, compared to recovery as the result of a rate case.

Adjustable Rate Mechanisms (Trackers)

An expense tracker allows retail rates to be adjusted outside the context of a base rate case to reflect changes in operating expenses excluding a return on such expenses. Recovery of expenses

¹³Cause No. 44182

that are characterized as largely outside the utility's control, variable, and materially significant is the intended goal of such trackers. Examples of expense trackers include fuel adjustment and RTO charges. By comparison, a capital investment tracker allows a utility to reflect certain clean

coal and energy generation capital costs in its rate base and to reflect the associated return on such investment in retail rates outside a base rate case. A capital investment tracker reduces the lag time between when capital expenditures are made and cost recovery for the utility begins. Credit rating agencies typically view such trackers favorably. Capital trackers have most commonly been utilized by utilities to support major investments in upgrading coal generation plants to comply with increasingly stringent environmental regulations.

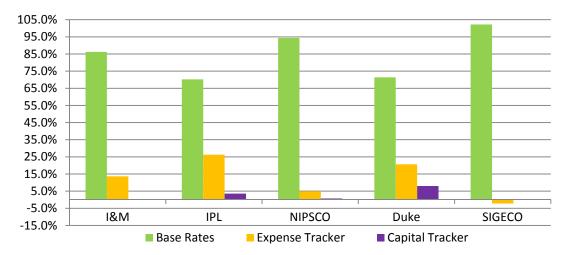
Indiana's regulatory statutes include adjustable rate mechanisms (trackers) as an integral part of regulation.

Expenses that are characterized as largely outside the utility's control, variable, and materially significant are the intended goals of such trackers.

Chart 4 shows a breakdown of how base rates, expense adjustments, and capital adjustments contribute to a residential customer's bill for each of Indiana's electric IOUs. The relative weighting of these elements varies in part due to the magnitude of a company's construction program and how much time has elapsed since its last base rate case.

Chart 4

Residential Bill Components for the Investor-Owned Utilities



The fuel adjustment clause (FAC) has existed in Indiana for more than three decades and tracks a utility's largest variable operating expense, which is fuel. Other expenses tracked have

expanded in recent years to include demand-side management programs; emission allowances; purchased power capacity; clean coal technology operation and maintenance; and MISO/PJM management expenses. Direct pass-through of expense or revenue reflects current conditions in retail rates in a more timely manner than traditional base rate case regulation. The pass-through of unpredictable revenues and expenses to ratepayers also reduces volatility in the utility's earnings and may enhance the utility's credit rating. Expense trackers have historically been accepted as fair and reasonable adjustments to utility base rates by most stakeholders, largely serving as a protection against variable cost fluctuations for extremely volatile expenses. Capital trackers are more controversial and have enabled rates to increase, sometimes substantially, outside a full rate review of all expenses.

Modernization and Efficiency

Even though the majority of Indiana's electric needs are met through coal-fired generation owned by the utilities, renewable initiatives, energy efficiency, and demand response programs are also being developed to enhance the value of Indiana's energy services.¹⁴

Net Metering

Net metering is a service offering that allows customers to supplement their electric usage and cut costs by installing renewable energy facilities such as wind turbines or solar panels, while relying on the electric utility as a back-up provider. If the amount of electricity the customer receives from the utility is greater than the amount delivered to the utility, the difference is charged to the customer. If the amount the customer received from the utility is less than the amount delivered to the utility, the customer receives a credit on the next bill for the difference.

Making the Grade in 2011



Freeing the Grid, an annual report published by the Network for New Energy Choices and The Vote Solar Initiative, highlighted the recent rulemaking by awarding the IURC a "B" grade. From 2007 to 2009, the grade was an "F," and in 2010, it was a "D." The grade improvement ultimately earned Indiana the title of "Most Improved," according to the news release issued by the report's publishers.

Source:

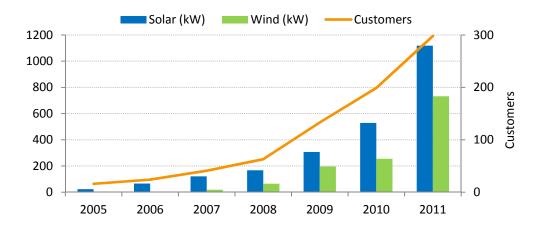
www.newenergychoices.org/index.php ?page=nm_release2011&sd=nm

¹⁴Energy efficiency refers to measures or technologies that reduce the consumption of energy while demand response resources refer to measures, technologies, or incentives and pricing programs that reduce or curtail load during peak periods.

Two years ago, the Commission started the formal rulemaking process to update the net metering rule, which became effective in July 2011. As a result, net metering is now available to all customer classes, and energy production facilities have a maximum capacity of 1 MW. Additionally, a utility may limit the total capacity under the net metering tariff to 1% of its most recent summer peak load. In 2011, participation in net metering grew 50%, from 199 net metering customers in 2010 to 298 customers last year. Total capacity increased as well by 130% in that same period. This growth is illustrated in Chart 5.

Chart 5

Net Metering Capacity (kW) and Participation in Indiana
2005 to 2011



Feed-in Tariffs

Small scale renewable energy technologies often initially require subsidies to compete with traditional generation resources that burn coal or gas. Therefore, many utilities, with the support of their regulators, are encouraging the development of renewable technologies that use solar, wind, and/or biomass to produce energy by offering to buy energy generated by customer-owned facilities at prices that make the projects economically viable.

Unlike a traditional utility tariff, which specifies the price at which a ratepayer may purchase energy, a feed-in tariff specifies the price at which a utility will purchase energy generated from qualified, customer-owned facilities. Feed-in rates differentiate between technologies and unit size so as to not encourage one renewable technology to the detriment of another. The cost of the energy purchased under a feed-in tariff is recovered from the utility's ratepayers in a manner

similar to how fuel expenses are recovered. By setting an appropriate purchase price for feed-in technologies, a balance can be struck between the need for renewables and cost increases to customers.

IPL¹⁵ and NIPSCO¹⁶ currently offer feed-in tariffs at rates up to 30¢ per kWh for solar power and up to 17¢ per kWh for wind power. Both programs specify a minimum individual project size (capacity), a maximum aggregate capacity available under the tariffs, and a maximum contract term of 15 years. IPL's feed-in tariff offer expires in early 2013, and NIPSCO's offer expires at the end of 2013. However, based on recent correspondence with the Commission, IPL plans to discontinue its feed-in tariff program. A sampling of the contracts approved by or pending before the Commission are shown in Table 4.

Table 4

Feed-In Renewable Power Production Contracts

Customer	Year	Location	Utility	Source	Capacity (kW)	Est. Production (Annual MWh)
The Time Factory	2010	Indianapolis	IPL	Wind	50	14
U.S. GSA (Fort Harrison)	2011	Indianapolis	IPL	Solar	2,012	2,289
Bio Town Ag	2011	N. Indiana	NIPSCO	Biomass	NA	NA
Energy Solutions	2011	Indianapolis	IPL	Solar	90	124
L&R Housing	2011	Indianapolis	IPL	Solar	58	76
Various Individuals	2011	N. Indiana	NIPSCO	Sm. Solar	93	122
Melloh Enterprises	2012	Indianapolis	IPL	Solar	39	47
Indianapolis Airport Authority	Pending	Indianapolis	IPL	Solar	9,800	18,320

Plug-in Electric Vehicle Development

Widespread deployment of plug-in electric vehicles¹⁷ (PEVs) can offer significant energy security, environmental, and economic benefits. However, PEVs can pose potential challenges

¹⁵Cause No. 44018

¹⁶Cause No. 43922

¹⁷A plug-in electric vehicle refers to plug-in hybrid electric vehicle, as well as a fully-electric vehicle.

to the grid, utilities, and ultimately ratepayers, which will become clearer as national and local pilot programs advance.

Pilot programs are already underway in Indiana for NIPSCO, IPL, and DEI. NIPSCO is offering 250 of its residential customers an instant credit of up to \$1,650 toward the installation of PEV charging equipment. It is also offering free charging between 10:00 p.m. and 6:00 a.m. daily as part of its "IN-Charge Electric Vehicle Program."

IPL, on the other hand, began offering a time-of-use rate to PEV owners in 2011. The rate on a summer weekday afternoon is five times greater than the rate at night, to encourage customers to charge their PEVs during non-peak hours. ¹⁸ IPL is providing 150 residential customers with free charging equipment at their homes, which 30 customers took advantage of in 2011. The company also installed 14 public charging stations at four locations in Indianapolis in the last year. These stations allow customers to charge their PEVs for an unlimited amount of time for \$2.50.

DEI's "Project Plug-In" is available to customers in Indiana who are purchasing PEVs to upgrade to a 240-volt, Level 2 charging station, enabling them to charge their vehicles faster. The programs provides up to \$1,000 in installation costs for residential customers and up to \$1,500 for commercial customers.

Energy Efficiency Programs

Implementation of the Commission's demand side management (DSM) directives swung into high gear this past year. The commercial operation of Energizing Indiana launched in January 2012. According to GoodCents, the third-party administrator for the programs, more than 6,663 home energy assessments have been conducted thus far, which

has amounted to more than 7,119,144 kWh saved in Indiana. 19

The collaborative marketing effort among the utilities

Together we'll do powerful this
creates efficiencies and gives a consistent look and feel to the individual utility programs. The
Demand Side Management Coordination Committee (DSMCC) oversees the implementation of

¹⁹www.in.gov/oucc/files/EI_6monthupdate_release_7-23-12.pdf

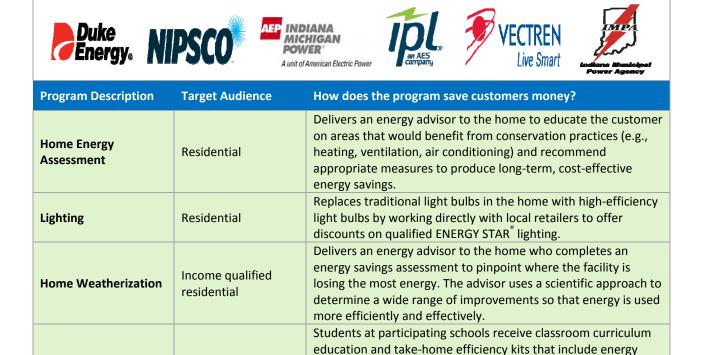
¹⁸75% of the electricity demanded by IPL's residential EV customers in 2011 occurred during off-peak hours.

the five DSM Core programs, which are shown in Table 5. DSMCC members include: the utilities, the Citizens Action Coalition of Indiana, the Indiana Industrial Group, and the OUCC.

Supplementing the Core programs are service territory-specific Core Plus programs. These programs differ from Core programs in that they are utility-led but monitored by oversight boards similar to the DSMCC. The Core Plus programs complement and supplement the Core programs to help the utilities achieve the annual and long-term energy savings targets mandated by the Commission. In order to monitor the effectiveness of the programs and the progress of the utilities in achieving the specified goals, the utilities are required to file three-year plans and annual progress reports discussing the statewide savings goals. The next three-year plan is anticipated by July 1, 2013.

Table 5

DSM Core Programs Offered by Indiana Electric Utilities



conservation practices.

Community schools

Commercial and

industrial businesses

Schools Program

Prescriptive Rebates

saving devices designed to open students' and parents' eyes to

and contractors to actively promote and install energy-efficient

the energy-saving potential of simple, easy-to-implement

Provides rebates for businesses to lower electricity use and decrease their overall energy costs. It also encourages vendors

technologies for their business customers.

As of 2011, all five IOUs have Core Plus programs, which include, but are not limited to, custom incentive programs for new construction and technical assistance for industrial process improvements that aid energy efficient operations. An example of a non-residential Core Plus program is Vectren's Commercial and Industrial New Construction Program. This program promotes energy efficient designs with the goal of developing projects that are 30% more efficient than current Indiana building code. An example of a residential Core Plus program is IPL's Residential Multi-Family Direct Install offering, which is designed to reduce the consumption of electricity by installing compact fluorescent lights and low-flow water devices to reduce hot water usage. This program is delivered in partnership with Citizens Gas.

Demand Response Programs

Demand response programs have a long history in the electric industry, and the types of programs available have expanded in recent years. The U.S. Department of Energy defines demand response, in part, as "changes in electric usage by end-use customers from their normal consumption patterns in response to changes in the price of electricity over time."

Traditionally, Indiana utilities have relied upon interruptible load contracts with large industrial customers to reduce the need for utility-owned generation capacity. In other words, if the customer agrees to reduce its demand during peak use times, it will get a better overall rate. This arrangement is often called demand response. In response to utility requests, increased use

has also been made of appliance demand response programs, with emphasis on the control of air conditioners during times of peak load. Indiana utilities have 1,275 MW of load reduction via demand response available for the summer 2012, with a large majority of this coming from interruptible load contracts with large industrial customers. Demand response programs

Indiana utilities have 1,010
MW of interruptible load and
103 MW of air conditioner load
control. Having these contracts
allows them to manage load
on peak demand days.

emphasize the relationship between customer consumption patterns during peak periods in response to high wholesale market prices or when system reliability is at risk. Indiana is among many states working to increase cost-effective customer participation in demand response programs.

On July 28, 2010, the Commission issued a decision in Cause No. 43566, an investigation into the benefits of customer participation in demand response programs offered by PJM and the MISO. In the decision, the Commission expressed support for efforts to increase demand response at the wholesale level and stated that RTO demand response programs must work in tandem with and not in contravention to Indiana's utility regulatory framework. Consequently, all five IOUs put programs in place to enable customer participation in the demand response programs offered by the RTOs. In order to track the effectiveness of these programs, each utility must file a report with Commission describing its experience, the costs and expenses associated with the tariffs, and the administrative charges being collected.

Indiana Electricity Outlook

The State Utility Forecasting Group (SUFG), an independent research entity based at Purdue University, has been tasked with identifying and forecasting Indiana's resource needs. According to the SUFG's 2011 forecast,²⁰ the state will need approximately 2,600 MW of additional resources (all types of generating capacity, demand response, efficiency, and transmission to import power) by 2020 to meet expected load growth and maintain a 15.8% reserve margin.²¹ The forecast also projects that electricity usage will grow at an annual rate of 1.30% over the 20-year forecast and that peak demand will grow at an annual rate of 1.28%.²² This means that utilities must start considering how to meet demand in the short term.

Although the recession may have temporarily slowed the growth of energy and demand, the expectation is that the projected growth rates will resume over the forecast horizon. These projections provide a reasonable basis for estimating future electricity prices for planning purposes, but they do not ensure resource plans obtained at least cost. These projections also do not yet address the effects of potential U.S. EPA environmental regulations, which are expected to require additional environmental controls or the retirement of certain plants where retrofitting is not feasible or economical.

²⁰www.purdue.edu/discoverypark/energy/pdfs/SUFG/2009SUFGforecast.pdf

²¹The SUFG used individual utility reserve margins that reflect the planning reserve requirements of the utility's RTO to determine the reserve requirements in the forecast.

²²Peak demand is the maximum level of electric demand in a specified period.

U.S. EPA Environmental Regulations

Based on preliminary analysis, recent environmental decisions being made at the federal level have the potential to considerably impact the state of Indiana. Given the number of new requirements, the tight timeframes to comply with the regulations, and Indiana's reliance on coal, costs are expected to be significant.

Numerous studies have been conducted on the potential impacts. For example, the SUFG released a study entitled "The Impacts of Federal Environmental Regulations on Indiana Electric Prices" in January 2012. The study analyzed how the Cross State Air Pollution Rule (CSAPR), Mercury and Air Toxics Standards Rule (MATS), greenhouse gas, cooling water, and coal ash regulations would affect Indiana. The SUFG projected that prices would be about 14% higher than a scenario absent U.S. EPA regulations. Another projection is from the MISO, which announced this summer that capital investment of \$33 billion will be required to retrofit and/or replace units. It also stated that average energy prices could increase by \$5/MWh.²⁴

In addition to being concerned about the impact on rates, the Commission is strongly opposed to the U.S. EPA's proposed three-year compliance timeline in the MACT rule. In an August 2011 letter to U.S. EPA Administrator Lisa Jackson, the IURC stated:

"It would be extremely difficult, if not impossible, for any single utility to complete these requirements within even a four-year timeline. Additionally, the compressed timeline will force utilities to compete against each other for scarce resources further driving up costs that will ultimately be borne by consumers. Our Indiana utilities project that the compressed timeline proposed will inflate costs to twice that of a more reasonable 6-8 year implementation."

²⁴"Impact of EPA Regulations on Coal-Fired Capacity," Ryan Westphal, Midwest ISO, July 24, 2012

²³Due to the timing and stringency of the regulations, as well as the complexity of modeling the various factors affecting the production, delivery, and consumption of electricity, the SUFG stresses there is considerable uncertainty regarding the exact impact of the regulations.

Further detail is provided below about the rules pending at or finalized by the U.S. EPA:

• Cross State Air Pollution Rule

o *Impact:* CSAPR requires power plants in 28 states (including Indiana) to reduce emissions of SO₂ and NOx, to assist states in attaining fine particle National Ambient Air Quality Standards. CSAPR was to replace the Clean Air Interstate Rule (CAIR) on January 1, 2012. CSAPR emission limits and emission allowance trading are more stringent than those in CAIR. However, the U.S. Court of Appeals for the D.C. Circuit stayed CSAPR on December 30, 2011, pending judicial review. Therefore, as of now, CAIR remains in effect.

• Mercury and Air Toxics Standards Rule

o *Impact:* MATS limits mercury, acid gasses, and other toxic pollution emissions from electric generating units with a nameplate capacity greater than 25 MW that burn coal or oil. The rule requires installation of maximum achievable control technology (MACT) and does not include any emission allowance trading mechanism. Compliance with MATS is to begin in March 2015. A one-year extension can be granted by state authorities for units working to install emission controls, and a two-year extension can be granted to units determined to be reliability-critical.

• Carbon Pollution Standard for New Power Plants Rule | Proposed on March 27, 2012

o *Impact*: This rule does not apply to plants currently operating or newly permitted plants set to begin construction within 12 months of March 27, 2012. The U.S. EPA has stated the CO₂ emission standard can be met with new natural gas combined cycle plants or carbon reducing technologies on new coal plants.

• Cooling Water Intake Rule | Proposed on April 20, 2011

 Impact: Pursuant to standards under 316(b) of the Clean Water Act, this rule would cover thermal discharges from power plants. The U.S. EPA is required to finalize this rule by July 27, 2013.

• Coal Combustion Residual (CCR) Rule | Proposed on June 21, 2010

o *Impact:* This rule would regulate the handling of coal ash. The primary difference between the CCR rules proposed is whether to regulate coal ash as a hazardous or non-hazardous waste under the Resource Conservation and Recovery Act. A final rule is expected in 2013.

Stricter ambient air quality standards for ozone and particulate matter, which are implemented at the state level, could also result in tighter limits under CSAPR and through compliance enforcement. The U.S. EPA has stated it will need until at least August 15, 2013 to finalize new standards for particulate matter, and that it will complete its on-going five-year review in 2013.

Reactions to U.S. EPA Regulations

Before any of the rules were finalized or proposed, Indiana's electric IOUs already had environmental compliance plans in place and clean coal technology installed on their power plants to comply with existing U.S. EPA regulations. However, the new rules (especially MATS) are causing several IOUs to seek approval for additional clean coal technology in order to comply with the extremely tight timeframes associated with the implementation. The following table summarizes the impact of the new rules thus far on the IOUs and the actions they plan to take. The table also notes pollution control technology plans alluded to in the IOUs' 2011 IRPs.²⁵

Table 6

Indiana IOUs' Recent Clean Coal Technology Actions,
Announcements, and Scheduled Retirements Through 2020

Utility	Pollution Control Property	Retirements
Duke Energy	Cause No. 43873 – In September 2010, a CPCN was granted for dry sorbent injection technology at Gallagher Units 2 and 4, estimated to cost approximately \$16 million. 2011 IRP contains major environmental control upgrades in 2015 (Gibson Units 3-5) and 2017 (Cayuga Units 1-2 and Gallagher Units 2 and 4).	2012 - Gallagher Units 1 and 3 (280 MW) 2015 – Wabash River Units 2-6 (668 MW)

²⁵Much of the clean coal technology referenced in the 2011 IRPs has not been filed for yet, and plans could change. Cost recovery from customers related to clean coal technology is only permitted if approved through a docketed proceeding by the Commission. Also, retirements listed are not necessarily due to new environmental regulations.

I&M	Cause No. 44033 (pending) – CPCN request for flue gas desulfurization and selective catalytic reduction systems at one of the Rockport units, estimated to cost approximately \$1.4 billion. 2011 IRP indicated additional environmental controls will likely be needed at the other Rockport unit and at Tanners Creek Unit 4 between 2013 and 2016.	2014/15-Tanners Creek Units 1-3 (485 MW)
IPL	2011 IRP indicated multiple controls will be needed at Petersburg Units 1-4 and Harding St. Unit 7.	2014 – Eagle Valley Unit 3 (43 MW) 2015 – Eagle Valley Units 1, 2, 4-6 (298 MW) and Harding St. Units 3-6 (282 MW)
NIPSCO	Cause No. 44012 (some requests still pending) – CPCN request for environmental controls at Schahfer Units 14, 15, 17, and 18, Michigan City Unit 12, and Bailly Units 7 and 8, estimated to cost approximately \$789 million. 2011 IRP indicates additional environmental controls will likely be needed at multiple coal units.	2013 – Mitchell 9A (17 MW)
SIGECO	No additional environmental controls are currently planned for.	None currently planned

Source: Utility filings and 2011 Integrated Resource Plans (IRP)

Regulatory Development

Independent Audit due to Manhole Explosions

Following a series of manhole explosions in early 2011, the IURC held several meetings with IPL to address public concerns about the safety of the downtown underground network. After hearing from the utility, the Commission determined additional analysis was necessary and proceeded with selecting a consultant (at IPL shareholders' expense) to audit the electrical network. The audit revealed that while the underground network is well designed, the condition of the system is in need of improvement. At the request of the Commission, the auditor made a number of recommendations to improve the maintenance of the underground system. The utility worked with the auditor to develop a plan to implement the auditor's recommendations last year. Regular reports are submitted to the agency on the status, as well as any incidents involving the electrical network.

Voluntary Clean Energy Portfolio Standards Program

Senate Enrolled Act 251 (P.L. 150-2011) required the Commission to conduct a rulemaking to implement the state's Voluntary Clean Energy Portfolio Standard Program and allowed for an emergency rule in order to meet the required effective date of January 1, 2012. An extensive stakeholder process resulted in a proposed rule, which was approved as an emergency rule by the Commission on December 22, 2011, and which has been made permanent through a final rulemaking, effective August 8, 2012. The CHOICE (Comprehensive Hoosier Option to Incentivize Cleaner Energy) Rule implements the statutory program designed to encourage a participating utility to reach a clean energy target of 10% of its total electricity supply by 2025. There are also interim targets of 4% for the period 2013 through 2018 and then 7% for 2019 through 2024. The rule recognizes historical efforts in meeting the goal while limiting the incentive of an enhanced return only to efforts in direct response to the legislation.

Tree-Trimming Rule

Since the IURC issued a decision in 2010 related to its tree-trimming investigation, the agency has undertaken a rulemaking to formulate new rules regarding issues such as customer notification, education, dispute resolution, and tree replacement, all of which are detailed below. The rule provides a framework for utilities' tree and vegetation management programs that balances their need to ensure reliability of service with the interests of their customers in preserving their landscapes. Rather than having each utility create its own set of guidelines, the rule standardizes the tree trimming process for DEI, I&M, IPL, NIPSCO, and Vectren.

Issue	Changes due to the rule
Trimming Standards	Utilities must abide by nationally recognized best practices, such as the ANSI A300 standards.
Notification	Customers will receive two notices at least two weeks before trimming is scheduled; notice will also be given 60 days prior to line upgrades.
Education	By providing details about the tree trimming process and why it is needed, concerns can be addressed before trimming takes place.
Dispute Resolution	If a customer objects to the proposed plan within five days of receiving notice, the utility must hold off on trimming until the issue is addressed by the utility or the IURC's Consumer Affairs Division.
Property Rights	The rule did not change existing property rights; however, it reiterated utilities cannot trim outside an easement or right-of-way without customer consent.
Tree Replacement	In cases where a tree must be removed, an agreement may be reached in which the customer is compensated.

When drafting the rules, the IURC incorporated comments from a variety of stakeholders, including consumer groups like the Indiana Tree Alliance, private citizens, the OUCC, and the utility companies. Additionally, the IURC traveled to six locations during the investigation in order to collect testimony from customers in the different service territories. The locations visited included: Evansville, Fort Wayne, Indianapolis, Merrillville, Muncie, and Seymour. This rule has been submitted to the Indiana Attorney General and the Governor for approval. Thereafter, it will be submitted to the Indiana Legislative Services Agency (LSA) for publication in the Indiana Register. It will take effect 30 days after being filed with the LSA.

IV. Appendices

Appendix A – Revenues for Jurisdictional Electric Utilities

Rank	Utility Name	Operating Revenues*	% of Total Revenue
1	Duke Energy Indiana, Inc.	\$ 2,618,717,655	31.14%
2	Indiana Michigan Power Co.	2,128,984,087	25.31%
3	Northern Indiana Public Service Co.	1,428,474,288	16.98%
4	Indianapolis Power & Light Co.	1,171,921,385	13.93%
5	So. Indiana Gas & Electric Co. d/b/a Vectren	636,114,606	7.56%
6	Northeastern REMC	90,582,100	1.08%
7	Richmond Municipal	85,125,858	1.01%
8	Anderson Municipal	73,287,311	0.87%
9	Mishawaka Municipal	50,153,709	0.60%
10	Crawfordsville Municipal	32,188,258	0.38%
11	Auburn Municipal	27,910,441	0.33%
12	Frankfort Municipal	26,762,193	0.32%
13	Lebanon Municipal	17,561,955	0.21%
14	Columbia City Municipal	10,158,777	0.12%
15	Tipton Municipal	9,819,224	0.12%
16	Knightstown Municipal	2,234,138	0.03%
17	Kingsford Heights Municipal	619,740	0.01%
18	Greenfield Mills, Inc. Power & Light	23,481	0.00%
	Total Revenue	\$ 8,410,639,206	100.00%

^{*}Year ending December 31, 2011

Appendix B – Jurisdiction over Municipal Electric Utilities

Municipal Utilities under the IURC's Jurisdiction			
Anderson Frankfort Mishawaka			
Auburn	Kingsford-Heights	Richmond	
Columbia City	Knightstown	Tipton	
Crawfordsville	Lebanon		

Municipal Utilities	s Withdrawn from the IURC's Jurisdi	ction (IC § 8-1.5-3-9)
Advance	Flora	Peru
Argos	Frankton	Pittsboro
Avilla	Garrett	Rensselaer
Bainbridge	Gas City	Rising Sun
Bargersville	Greendale	Rockville
Bluffton	Greenfield	Scottsburg
Boonville	Hagerstown	South Whitley
Bremen	Huntingburg	Spiceland
Brooklyn	Jamestown	Straughn
Brookston	Jasper	Tell City
Cannelton	Ladoga	Thorntown
Centerville	Lawrenceburg	Troy
Chalmers	Lewisville	Veedersburg
Coatesville	Linton	Walkerton
Covington	Logansport	Warren
Darlington	Middletown	Washington
Dublin	Montezuma	Waynetown
Dunreith	New Carlisle	Williamsport
Edinburgh	New Ross	Winamac
Etna Green	Paoli	
Ferdinand	Pendleton	

Appendix C – Jurisdiction over Rural Electric Membership Cooperatives

	REMCs under the IURC's Jurisdiction	
Northeastern REMC		

REMCs Withdrawn from the IURC's Jurisdiction (IC § 8-1-13-18.5)			
Bartholomew County REMC	Jasper County REMC	South Central Indiana REMC	
Boone County REMC	Jay County REMC	Southeastern Indiana REMC	
Carroll County REMC	Johnson County REMC	Southern Indiana REC	
Ninestar Connect	Kankakee Valley REMC	Steuben County REMC	
Clark County REMC	Kosciusko County REMC	Tipmont REMC	
Daviess-Martin County REMC	Lagrange County REMC	United REMC	
Decatur County REMC	Marshall County REMC	Utilities District of W. Indiana	
Dubois REC	Miami-Cass REMC	Wabash County REMC	
Fulton County REMC	Newton County REMC	Warren County REMC	
Harrison County REMC	Noble County REMC	White County REMC	
Hendricks County REMC	Orange Co. REMC	Whitewater Valley REMC	
Henry County REMC	Parke County REMC	WIN Energy REMC	
Jackson County REMC	Rush Shelby County REMC		

Appendix D – Residential Electric Bill Survey (July 1, 2012 Billings)

	←	kWh Consumption		\longrightarrow
Municipal Utilities	500	1000	1500	2000
Anderson Municipal	\$53.97	\$98.10	\$142.22	\$184.14
Auburn Municipal	\$37.29	\$69.58	\$101.87	\$134.16
Columbia City Municipal	\$54.03	\$100.01	\$145.98	\$191.96
Crawfordsville Municipal	\$55.76	\$96.51	\$137.27	\$178.02
Frankfort Municipal	\$48.46	\$86.64	\$124.82	\$158.71
Kingsford Heights Municipal	\$49.80	\$96.10	\$142.40	\$188.70
Knightstown Municipal	\$51.34	\$98.06	\$140.49	\$182.92
Lebanon Municipal	\$48.16	\$89.54	\$127.13	\$164.71
Mishawaka Municipal	\$46.21	\$82.42	\$118.64	\$154.85
Richmond Municipal	\$60.21	\$104.88	\$149.54	\$192.48
Tipton Municipal	\$48.46	\$90.92	\$131.09	\$171.26
Cooperative Utilities	500	1000	1500	2000
Jackson County REMC	\$66.63	\$115.26	\$163.89	\$212.53
Northeastern REMC	\$66.75	\$115.04	\$163.34	\$206.13
Investor-Owned Utilities	500	1000	1500	2000
Duke Energy Indiana	\$63.20	\$105.38	\$142.69	\$180.00
Indiana Michigan Power d/b/a AEP	\$46.11	\$85.41	\$124.72	\$164.03
Indianapolis Power & Light Co.	\$58.61	\$94.73	\$130.84	\$166.95
Northern Indiana Public Service Co.	\$63.09	\$115.17	\$167.26	\$219.34
So. Indiana Gas & Electric Co. d/b/a				
Vectren	\$80.14	\$149.28	\$218.42	\$287.56
Average for 2012 Survey	\$55.45	\$99.61	\$142.92	\$185.47
Average for 2011 Survey	\$53.96	\$96.86	\$138.91	\$180.21
% Change	2.77%	2.84%	2.89%	2.92%

Appendix E – Residential Electric Bill Survey (July 1, 2012 Billings)

$Year-to-Year\ Comparison\ for\ 1000\ kWh$

Municipal Utilities	2011	2012	% Change
Anderson Municipal	\$98.10	\$93.92	4.45%
Auburn Municipal	\$69.58	\$67.63	2.87%
Columbia City Municipal	\$100.01	\$98.41	1.62%
Crawfordsville Municipal	\$96.51	\$90.95	6.12%
Frankfort Municipal	\$86.64	\$82.79	4.66%
Kingsford Heights Municipal	\$96.10	\$94.82	1.35%
Knightstown Municipal	\$98.06	\$94.25	4.05%
Lebanon Municipal	\$89.54	\$88.18	1.54%
Mishawaka Municipal	\$82.42	\$84.45	-2.40%
Richmond Municipal	\$104.88	\$89.16	17.63%
Tipton Municipal	\$90.92	\$88.32	2.95%
Municipal Averages	\$92.07	\$88.44	4.10%

Cooperative Utilities	2011	2012	% Change
Jackson County REMC	\$115.26	\$113.02	1.99%
Northeastern REMC	\$115.04	\$114.06	0.86%
Cooperative Averages	\$115.15	\$113.54	1.42%

Investor-Owned Utilities	2011	2012	% Change
Duke Energy Indiana	\$105.38	\$104.61	0.74%
Indiana Michigan Power d/b/a AEP	\$85.41	\$84.65	0.90%
Indianapolis Power & Light Co.	\$94.73	\$88.86	6.61%
Northern Indiana Public Service Co.	\$115.17	\$110.37	4.35%
So. Indiana Gas & Electric Co. d/b/a Vectren	\$149.28	\$155.10	-3.75%
Investor-Owned Averages	\$109.99	\$108.72	1.18%

Appendix F – Residential Electric Bill Comparison (July 1, 2012 Billings)

5-Year and 10-Year Comparisons for 1000 kWh

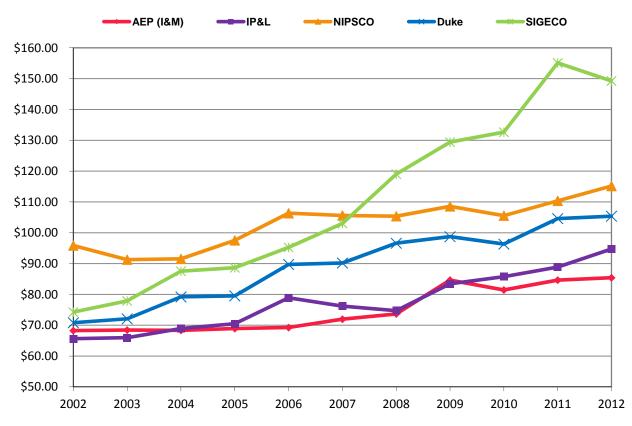
Utility	5-Year Change		10-Year Change	
American Electric Power Co. (I&M)	\$13.45	18.7%	\$17.18	25.2%
Indianapolis Power & Light (IP&L)	\$18.53	24.3%	\$29.11	44.4%
Northern Indiana Public Service Co. (NIPSCO)	\$9.56	9.1%	\$19.32	20.2%
Duke Energy Indiana (DEI)	\$15.18	16.8%	\$34.57	48.8%
Southern Indiana Gas & Electric Co. (SIGECO)	\$46.26	44.9%	\$75.01	101.0%

Note:

Individual company increases for rates and charges vary widely due to different levels of capital investments for environmental compliance, in addition to the timing of rate cases.

10-Year Comparison

Investor-Owned Utility Residential Electric Bills at 1,000 kWh



2012 Natural Gas Report

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I. Executive Summary

The Natural Gas section of the Regulatory Flexibility Report discusses key issues facing the industry. These topics include market volatility, the discovery and extraction of shale gas, and pipeline safety programs at both the federal and state level. It also highlights actions taken by the Commission to address specific challenges associated with these topics.

Market Volatility

The commodity cost of natural gas continues to fluctuate, although prices have decreased dramatically since their peak in 2009. Residential customers in Indiana on average experienced a decrease in their bills in 2012. In 2011, a residential customer using 200 therms would have received a bill for \$189.11. In 2012, this bill would have decreased to \$174.37. Both the 2011 and 2012 bills are lower than the five-year industry average of \$211.69, which shows how much the cost of natural gas has decreased. This is because supply and demand are the primary drivers affecting pricing. So, with abundant supply and stable demand, the commodity cost of natural gas has decreased in the U.S.; however, it is uncertain how long it will last.

Pricing is also dependent on weather, advancements in technology, and other factors that are difficult to quantify or predict, such as government actions and regulations. During this past winter, temperature levels were higher than normal, which resulted in customers using less natural gas. Less use contributed to the existing supply glut, which further drove down prices. However, the market could adjust if low prices lead to an increase in demand. For example, electric utilities are now able to take advantage of the low cost of natural gas as an alternative to coal. Depending on the extent to which plants are converted, this may decrease high supply levels and create upward price pressures.

Shale Gas

The discovery and extraction of shale gas is the chief reason for the increase in supply. Shale is recovered through a process called hydraulic fracturing or fracking, which is a technique used to create fractures that extend from the well bore into rock or coal formations so that the gas may travel more easily from the rock pores to the production well. According to the Energy Information Administration, there is enough natural gas to last 90 years at the current U.S.

consumption rate. However, environmental concerns about fracking have led to increased oversight and new regulations. Depending on how these regulations evolve over time and whether they become more stringent, the price of natural gas may increase. A U.S. Environmental Protection Agency report on the environmental impacts of fracking is scheduled for release in 2014. It is expected to provide additional insight into the concerns raised and may potentially shape future policy.

Pipeline Safety Programs

Although pricing has dominated the natural gas conversation in recent years, pipeline safety is now also at the forefront given the findings from the San Bruno pipeline explosion that occurred in 2009. The findings state that the California Public Utilities Commission failed to identify inadequacies in the pipeline operator's integrity managements plans. While Indiana has historically received high marks for its pipeline safety program, the IURC's Pipeline Safety Division responded to these findings by reviewing records and pipeline integrity procedures. However, the single greatest threat to the pipeline system is still third-party damage. Since the "Call Before You Dig" law was passed in 2009, there have been more than 2,600 possible violations reported. The law requires anyone undertaking a digging project to call 811 in order to have the utility lines marked. If a homeowner, excavator, or operator fails to do so and hits a line, they can be held responsible if a violation is found.

II. Overview

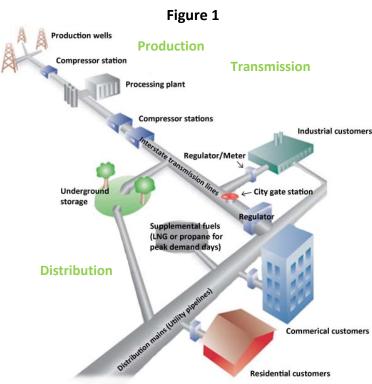
Industry Structure

The natural gas industry consists of three systems: producers (the gathering system), interstate and intrastate pipelines (the transmission system), and local distribution companies or LDCs (the distribution system), all of which are illustrated in Figure 1. Interstate pipelines, regulated by the Federal Energy Regulatory Commission (FERC), carry natural gas across state boundaries; intrastate pipelines, regulated by state commissions, carry natural gas within state boundaries. States, including Indiana, that have certified pipeline safety programs are delegated federal authority by the U.S. Department of Transportation to conduct inspections, investigate incidents, and enforce state and federal safety regulations.

In Indiana, the Indiana Utility Regulatory Commission (Commission or IURC) regulates the rates, charges, and terms of service for intrastate pipelines and LDCs. Through its Pipeline Safety Division, the Commission enforces state and federal safety regulations for all intrastate natural gas facilities. Additionally, the Commission reviews gas cost adjustments (GCAs), financial arrangements, service territory requests, and conducts investigatory proceedings. It also analyzes various forms of alternative regulatory proposals, such as rate decoupling, trackers, and customer choice initiatives.

Production Overview

As shown in Figure 1, the production of natural gas begins with raw natural gas extracted at the wellhead, where initial purification occurs before entering the low-pressure, small diameter pipelines of the gathering system. The natural gas is then repurified at a processing plant. Purified natural



gas consists of approximately 90% methane, compared to raw natural gas that is generally 70% methane combined with a variety of other compounds. Quality and safety reasons require natural gas to meet certain standards before it is released into the pipeline system.

Transmission System

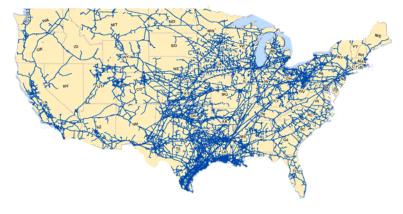
The transmission system includes interstate and intrastate pipelines that carry gas from producing regions throughout the U.S. to LDCs, industrial consumers, and power generation

customers. The vast majority of natural gas consumed in Indiana is from out-of-state production, primarily the Gulf of Mexico. In 2011, approximately 626.7 million dekatherms (Dth)¹ of natural gas was delivered to consumers within the state. Only a small portion of that is produced in Indiana. This illustrates Indiana's dependence on the transmission system to carry natural gas from the gas producing regions of the country into the state.²

The vast majority of natural gas consumed in Indiana is from out-of-state production, predominantly the Gulf of Mexico. This illustrates Indiana's dependence on the transmission system to carry natural gas from the gas producing regions of the country into the state.

In Indiana, Heartland Pipeline (Heartland) and the Ohio Valley Hub (OVH) Pipeline are the two intrastate pipelines under the Commission's jurisdiction. The Commission governs these

Map 1
U.S. Transmission Lines



pipelines' operations, services, and rates. Heartland is a 25-mile pipeline running west to east connecting the Midwestern Gas Transmission (MGT) interstate pipeline in Sullivan, Indiana to Citizens Gas' underground storage facility in Greene County. OVH is a 9.2-mile pipeline located in Knox County. It provides connections for

²www.eia.gov/dnav/ng/ng_sum_lsum_dcu_SIN_a.htm

two interstate pipelines (Texas Gas Transmission and MGT) to the Monroe City Gas Storage Field owned by Vectren.

Distribution System

Gas moves through the transmission system and enters the distribution system, where LDCs deliver gas to their customers on either a bundled basis (i.e., commodity and transportation) or unbundled basis (i.e., the customer buys gas from a producer or marketer and pays the LDC to transport the gas from the city gate³ to the customer's facilities).

LDCs serve three customer classes: residential, commercial, and industrial. The residential customer class consists of single-family homes and small multi-family dwellings that generally use the LDCs for bundled services. The commercial customer class typically consists of office, retail, and wholesale facilities in addition to larger residential complexes. The industrial customer class consists of large manufacturers and processors who typically use the highest volumes of gas both individually and collectively. Both commercial and industrial customers may receive bundled service from an LDC or they may purchase gas supplies from independent suppliers and pay the LDCs for transportation service.

The Commission has regulatory authority over 19 natural gas distribution utilities in Indiana with operating revenues totaling \$1.8 billion. These utilities maintain plant in service of approximately \$4.7 billion and serve roughly 1.7 million customers. Of the regulated utilities, one is a not-for-profit, two are municipalities, and sixteen are IOUs.

The Commission has regulatory authority over 19 natural gas distribution utilities in Indiana with operating revenues totaling \$1.8 billion (Appendix A).⁴ These utilities maintain plant in service of approximately \$4.7 billion and serve roughly 1.7 million customers. Of the regulated utilities, one is a not-for-profit, two are municipalities, and sixteen are investor-owned utilities (IOUs). Citizens Gas (Citizens) and three IOUs, detailed on the following page, represent the four largest natural gas utilities in

the state and collectively serve 95% of the gas customers by count. Map 2 shows the service territories of these utilities, as well as other jurisdictional natural gas utilities in Indiana.

³The city gate is the delivery point where the natural gas is transferred from a transmission pipeline to the LDC.

⁴2011 Annual Reports filed with the Commission

- Investor-Owned Utilities -

The three largest IOUs providing gas service in Indiana are Northern Indiana Public Service Company (NIPSCO), Vectren North, and Vectren South. IOUs are for-profit enterprises funded by debt (bonds) and equity (stock).

NIPSCO, a subsidiary of NiSource Inc., is headquartered and based in Merrillville, IN. The natural gas utility serves 691,000 customers in northern Indiana.





Vectren Corporation is headquartered and based in Evansville, IN. The natural gas utility serves 570,000 customers in central and southern Indiana through Vectren North and an additional 110,000 customers in southwestern Indiana through Vectren South.

- Municipally-Owned Utilities -

Citizens is a public charitable trust (treated as a municipal utility for regulatory purposes), serving 261,000 customers primarily in the Indianapolis metropolitan area.

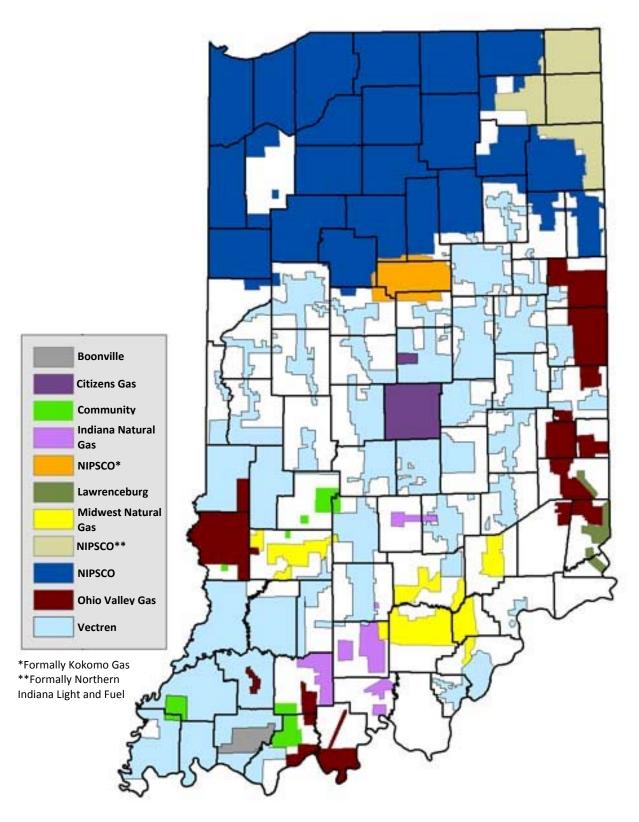


Pursuant to statute, municipal utilities, excluding Citizens, may "opt out" of the Commission's jurisdiction for rates and charges in favor of local control in determining rates. However, utilities that choose to opt out still remain under the jurisdiction of the Commission's Pipeline Safety Division.⁵ Of the state's 19 municipal gas utilities, 17 have elected to withdraw from the Commission's oversight. To view a list of the withdrawn utilities, please see Appendix B.

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⁵IC § 8-1.5-3-9





How Indiana Compares with Other States

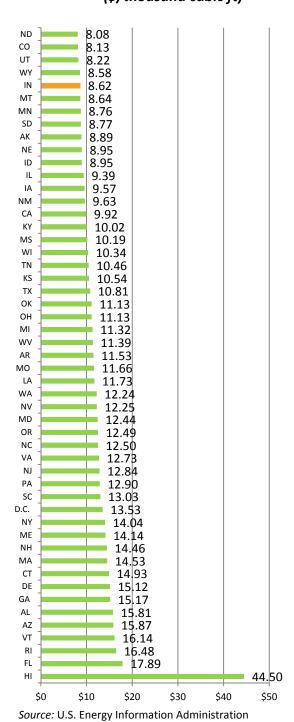
Over the last 10 years, Indiana has consistently compared well with other states for residential and commercial delivered (bundled) gas prices. Bundled prices include all utility costs to deliver the product, including pipeline and LDC operator charges.

As shown in Chart 1, Indiana ranked 5th lowest nationally and 2nd lowest in the Midwest region⁶ for the 2010 average residential gas prices. The average residential gas price has fallen each of the last two years from \$12.65 per thousand cubic feet in 2008 to \$8.62 per thousand cubic feet in 2010. These numbers are higher than the commonly referenced commodity cost of approximately \$4.50/Mcf, because they are bundled prices. Neighboring states' average residential retail rates for 2010 are as follows: Illinois \$9.39, Kentucky \$10.02, Ohio \$11.13, and Michigan \$11.32.⁷

Indiana ranked 7th lowest nationally and 4th lowest in the Midwest for 2010 average commercial gas prices. Indiana's 2010 average commercial price was \$7.54 per thousand cubic feet, less than the 2009 average price of \$9.18 per thousand cubic feet.

Neighboring states' average commercial retail rates for 2010 were as follows: Kentucky \$8.61, Illinois \$8.76, Michigan \$8.95, and Ohio \$9.25 per thousand cubic feet.⁸

Chart 1
2010 State Residential Gas Prices
(\$/thousand cubic ft)



⁶The Midwest region includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

⁷www.eia.doe.gov/dnav/ng/ng_pri_sum_a_EPG0_PRS_DMcf_a.htm

⁸www.eia.doe.gov/dnav/ng/ng_pri_sum_a_EPG0_PCS_DMcf_a.htm

Over the last five years, Indiana has also performed well with industrial gas prices. As Table 1 demonstrates, Indiana maintains a strong competitive advantage based on 2010 data, as compared to other states. This is due to a variety of factors, including the timing of rate cases

both in and out of state. Indiana ranked 11th lowest nationally and 4th lowest of the Midwest states for 2010 average industrial gas prices. The average industrial price fell from \$6.91 per thousand cubic feet in 2009 to \$5.65 per thousand cubic feet in 2010. Although Indiana industrial customers pay slightly

Table 1

Comparison between Indiana and the
U.S. Average Price for Delivered Gas
2008 (peak year) vs. 2010

Customer Category	Indiana Price (\$/Mcf)**			rage Price 'Mcf)
	2008 2010		2008	2010
Residential	12.65	8.62	13.89	11.39
Commercial	11.14	7.54	12.23	9.47
Industrial	10.48	5.65	9.65	5.49

^{*} Higher ranking denotes lower rates

more than the national average of \$5.49 per thousand cubic feet, of the four neighboring states, only Kentucky had a lower average industrial gas price of \$5.57 per thousand cubic feet. The other three states' average industrial retail rates for 2010 are as follows: Illinois \$7.13, Ohio \$7.40, and Michigan \$9.25 per thousand cubic feet. 10

Age Profile

Indiana's natural gas infrastructure consists of more than 75,000 miles of intrastate pipelines, placed in service over the past 80-plus years. Included in this total are more than 40,000 miles of distribution mains, which transport gas within a given service area to points of connection with pipes serving individual customers. More than 60% of the state's distribution mains are at least 30 years old. Also included in the state's infrastructure are approximately 2,000 miles of transmission mains, which transport gas from a source or sources of supply to one or more distribution centers, large volume customers, or other pipelines that interconnect sources of supply. Typically, transmission lines differ from gas mains in that they operate at higher pressures, are longer, and have a greater distance between the connections. More than 60% of the state's transmission mains are at least 40 years old.

^{**}Dollars per thousand cubic feet

⁹The Energy Information Administration did not release 2011 data this year. Publication is expected in 2013.

¹⁰ www.eia.doe.gov/dnav/ng/ng_pri_sum_a_EPG0_PIN_DMcf_a.htm

Table 2

Age Profile of Jurisdictional Transmission and Distribution Mains in Indiana

	Transmis	sion Mains	Distributi	on Mains	
Years Old	Number of Main Miles	% of Total Main Miles	Number of Main Miles	% of Total Main Miles	
80+	-	-	531	1.31%	
70-80	3	0.15%	341	0.84%	
60-70	301	15.03%	3,018	7.43%	
50-60	713	35.59%	9,531	23.46%	
40-50	252	12.58%	5,016	12.35%	
30-40	173	8.64%	7,028	17.30%	
20-30	258	12.90%	8,265	20.35%	
10-20	179	8.93%	5,665	13.94%	
0-10	5	.24%	459	1.13%	
Unknown	119	5.94%	766	1.89%	
Total	2003	100.00%	40,620	100.00%	

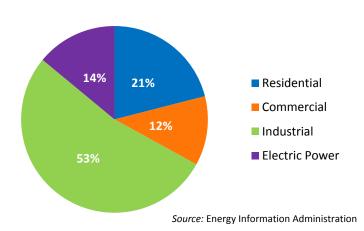
Federal guidelines for integrity management require that operators (including LDCs and pipeline companies) make every effort to assess threats to their pipelines.¹¹ The replacement of aging infrastructure continues to be an ongoing

focus as demand for service connections continues to increase. These issues are discussed later in the report.

Demand and Supply

As previously mentioned, Indiana's LDCs serve three different types of customers: residential, commercial, and industrial.

Chart 2
Consumption by Sector in Indiana (2011)



In 2011, Indiana's residential customers consumed approximately 133 million Dth of natural gas, which accounts for 21% of the state's total volumes delivered to consumers. ¹² Also in 2011,

¹¹Integrity management is a risk-based approach to pipeline safety resulting from the Pipeline Safety Acts of 2002 and 2006.

¹²http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcu_SIN_a.htm

Indiana's commercial customers consumed approximately 12% of the state's total volumes delivered to consumers or 76 million Dth of natural gas. ¹³

Industrial customers accounted for 53% of the state's total volumes delivered to consumers with roughly 333 million Dth, making Indiana the 4th highest state for industrial natural gas consumption in the U.S. ¹⁴ Chart 3 shows the other states within the top 10. Electric power consumers accounted for approximately 85 million Dth or 14% of Indiana's total consumption, which is an increase from 11% used by this sector in 2010. ¹⁵

Chart 3						
Top 10 States for Industrial Consumption % of total national industrial consumption						
Texas	19.26%					
Louisiana	12.91%					
California	10.52%					
Indiana	4.94%					
Ohio	3.91%					
Illinois	3.84%					
Oklahoma	2.86%					
Pennsylvania	2.75%					
lowa	2.47%					
Minnesota	2.41%					

Source: U.S. Energy Information Administration

Drivers of Demand

Environmental factors, economic growth, and weather are the primary factors driving demand for natural gas. Because natural gas is a cleaner burning fuel than coal, it is often used as an alternative fuel source for electric generation, especially in light of the low gas prices and recently approved or proposed U.S. Environmental Protection Agency (U.S. EPA) regulations. Although the magnitude of the increase has yet to be determined, demand is expected to increase.

As for weather, when it is colder than normal during the heating season, demand for natural gas increases. The 2011-2012 heating season was the warmest in 60 years, ¹⁶ which decreased demand for natural gas in an already over-supplied market and contributed to low natural gas prices. In 2011, natural gas prices decreased roughly 9% from 2010 prices at the Henry Hub, which is a distribution center in Louisiana that connects to nine interstate and four intrastate

¹³http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcu_SIN_a.htm

¹⁴http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_a_EPG0_vin_mmcf_a.htm

¹⁵http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcu_SIN_a.htm

¹⁶State of the Markets Report-2011 U.S. Dept. of Energy-Federal Energy Regulatory Commission-Office of Enforcement 2012

pipelines. This decrease resulted in a drop from about \$4/MMBtu at the beginning of the year to under \$3/MMBtu by December.¹⁷

Demand also increases, albeit to a lesser extent, when weather is hotter-than-normal during the summer cooling season, as natural gas is often used to generate electricity at times of peak demand. Since gas consumption is lower in the summer, gas utilities historically have replenished their stored natural gas supplies at this time, in preparation for the upcoming winter heating season. More often than not, utilities are able to purchase these supplies at lower, more favorable prices outside the winter heating season. However, as gas becomes more popular as a fuel source for electric generation, the price differential may diminish.

Supply Side Factors

New technology and lower extraction costs have led to increased drilling for non-conventional gas supplies (e.g., coal bed methane, shale gas, and tight sands). Tapping formerly unrecoverable sources of gas has contributed significantly to the supply, which continues to overwhelm swings in demand. The main factors influencing supply include:

- 1. Variations in natural gas production;
- 2. Net imports; and
- 3. Storage levels. 18

Domestically, the winter heating season (2011-2012)

ended with working gas in underground storage at

historically high levels. As of July 2012, the lower 48 states had 3,163 Bcf in storage compared to the five-year average of 2,693 Bcf.¹⁹ Another development affecting supply in the long-term is the April 2012 FERC approval of the first natural gas liquefaction and export terminal in Sabine Pass, LA.

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¹⁷State of the Markets Report – 2011, Federal Energy Regulatory Commission-Office of Enforcement 2012

¹⁸www.eia.gov/energyexplained/index.cfm?page=natural_gas_factors_affecting_prices

¹⁹http://ir.eia.gov/ngs/ngs.html

Additionally, natural gas producers have shifted their drilling efforts to more liquid rich plays due to depressed prices in the natural gas market and higher prices in the liquids market (i.e., petroleum). To date, natural gas production volume has remained consistent, so it is unlikely a rapid contraction in supply will be experienced in the short term; however, expanded use of natural gas for electric generation could significantly alter supply projections over the medium and long term Increased production efficiencies and the associated gas often found in the liquid rich plays help to maintain current drilling and supply levels. Associated gas is raw natural gas found in crude oil wells, either dissolved in the oil or as a cap of free gas above the oil.²⁰ Recent NYMEX future pricing has suggested that the market anticipates prices at Henry Hub will remain under \$4/MMBtu through 2014.²¹

Challenges of Long-Term Projections

Natural gas pricing has been volatile in the past due to fluctuations in supply and demand, which has caused long-term projections to vary widely among industry stakeholders. Given that demand and supply are heavily dependent on the weather, advancements in technology, and other factors that are difficult to quantify or predict, long-term projections are simply best guess estimates based on the information available at the time and can therefore be unreliable. Additionally, government actions and regulations regarding the energy sector and environment may shape the future economics of natural gas. Consequently, while natural gas demand and supply projections are common and necessary industry practices, they are not foolproof and may yield skewed assumptions. Absent a consistent, reliable source of data, entities such as the IURC are left to adjudicate drastically different viewpoints with regard to the future of natural gas, which can present challenges.

Legal and Policy Foundations

Pipeline Safety Act of 1968

The Pipeline Safety Act of 1968 established the federal pipeline safety program. This federal program establishes a framework and organizational structure for a federal/state partnership

²⁰www.oilandgasiq.com/glossary/associated-gas/

²¹State of the Markets Report-2011, Federal Energy Regulatory Commission's Office of Enforcement 2012

regarding pipeline safety. ²² This framework promotes pipeline safety through exclusive federal authority for the regulation of interstate pipeline facilities and federal delegation to the states for all or part of the responsibility for intrastate pipeline facilities.

The federal/state partnership is the cornerstone for ensuring uniform implementation of the pipeline safety program nationwide. It also authorizes federal grants to help defray a state agency's personnel, equipment, and activity costs. Grants are determined primarily on the annual evaluation of the state's program. Indiana's program, as established by statute, has historically received high marks from the annual federal evaluations.²³

Indiana's Pipeline Safety Program

The Pipeline Safety Division is responsible for enforcing state and federal safety regulations for Indiana's intrastate gas pipeline facilities and is established under IC ch. 8-1-22.5. The division operates in partnership with the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) under a certification agreement.

The Pipeline Safety Division's mission is to ensure the safe and reliable operation of Indiana's intrastate pipeline transportation system. It is accomplished largely through inspections, as well as training, outreach programs, enforcement through injunctions and monetary sanctions, and investigations of pipeline accidents. In 2011, the division conducted 709 inspections of 91 operators and 217 associated inspection units, safely resolving 137 probable violations.

Assessing Pipeline Operator Risk



Pipeline safety programs nationwide are developing riskbased methods and approaches to help evaluate a pipeline operator's overall risk. Doing so will help identify riskier pipeline operators, resulting in greater scrutiny and enhanced public safety. In addition to these initiatives at the regulator level, the Commission is also requiring pipeline operators to develop data-driven, risk-based inspection plans of their own, which will enable them to assess risks in their operations and take appropriate action to minimize or eliminate them.

²²49 U.S.C. Chapter 601

²³IC ch. 8-1-22.5

The Pipeline Safety Division is also responsible for the prevention of damage to underground facilities and the education of public and emergency officials and responders to recognize, report, and respond to gas-related emergencies. Recognizing the significance of pipeline safety, the General Assembly passed Senate Enrolled Act 487 in 2009, which is known as the "Call Before You Dig" law. It requires homeowners, excavators, and operators²⁴ to call 811 two days or more before digging, to ensure compliance with state and federal laws and prevent damage to underground infrastructure. If damage occurs, the Pipeline Safety Division serves as the investigative unit.

III. Landscape

Infrastructure

Although age is one factor in considering whether a pipeline may need to be replaced, the type of material used (bare steel, cast iron, plastic), its location, and relative risk to public safety are also considered. In accordance with pipeline safety standards, utilities perform inspections of their pipeline facilities on a regular basis to help identify areas at risk. Based on the results of these inspections, corrective actions are initiated. In some cases, this may include implementing replacement programs for existing bare steel, cast iron, or wrought iron systems. Many of these pipes need to be replaced because older pipelines of this nature were not coated or cathodically

Consequently, corrosion and leaks have developed over time. To enhance reliability and safety, many utilities now use plastic pipe for their distribution systems.

protected when they were installed years ago.

Investments

Depending on a utility's maintenance plan and the layout of its service territory, some utilities have fared

Many bare steel, cast iron, or wrought iron systems need to be replaced, because older pipelines of this nature were not coated or cathodically protected when they were installed years ago.

Consequently, corrosion and leaks have developed over time.

better than others when it comes to replacing outdated steel and iron systems. For example, NIPSCO's distribution system consists of 99.5% plastic or cathodically protected steel; whereas, the industry average is 87%. Bare steel comprises only 0.4% of NIPSCO's system, compared to

²⁴P.L. 62-2009

the national average of 13%.²⁵ Due to more stringent pipeline safety standards, utilities are implementing replacement programs, if they haven't already done so. For example, Vectren North, Vectren South, and Citizens Gas have all implemented replacement programs to rid their systems of at-risk pipe.

In the last rate cases of Vectren North²⁶ and South,²⁷ the utilities requested permission to replace all remaining bare steel and cast iron infrastructure in order to enhance service reliability and safety. The accelerated program is intended to replace the utilities' poorest performing infrastructure over a 20-year period. To date, no other Indiana natural gas utility has approval for an accelerated replacement program and only 14 gas utilities in other states have utilized similar programs. Over the 20-year period, Vectren North projects a program cost of about \$345 million or an annual capital requirement of \$17.25 million. Vectren South, on the other hand, projects a program cost of about \$90 million or an annual capital requirement of \$4.5 million.

In Citizens Gas' prior two rate cases, it requested recovery for annual extensions and replacements (E&R) to its system. The utility has a policy requiring planned replacement of cast iron, wrought iron, and bare steel, as well as poor condition service pipe. In Cause No. 42767, the total two-year average revenue requirement for E&R was \$23.8 million, which includes an allowance for the pipeline integrity management program. In Cause No. 43463, Citizens requested a three-year average revenue requirement of \$23.1 million in addition to \$927,000 for pipeline integrity management expenses.

Roachdale

When the Pipeline Safety Division identifies an at-risk system, it may file a request with the IURC to conduct an investigation. In the case of Roachdale Municipal Gas Utility, the Pipeline Safety Division took such action, which lead to the IURC opening an investigation on April 5, 2011.²⁸ The purpose of the investigation was to assess whether the utility was in compliance with pipeline safety standards and whether a hazardous conditions order should be issued due to aging and corroding mains and service connections.

²⁵2011 Winter Natural Gas Forum

²⁶Cause No. 43298

²⁷Cause No. 43112

²⁸Cause No. 44014

To remedy the situation, the IURC issued a decision requiring the utility to make the necessary investments needed to replace its existing gas distribution system and place a new system into service by October 1, 2012. Additionally, the IURC instructed the utility to comply with certain measures in the interim, such as:

- 1. Replacing the odorizer;
- 2. Conducting leak surveys;
- 3. Retaining an outside contractor;
- 4. Filing monthly reports with the IURC; and
- 5. Holding public meetings with stakeholders to increase awareness.

The Commission approved Roachdale's request on July 31, 2012 to extend the completion date to December 1, 2012 for placing its new gas distribution system into service. In the meantime, Roachdale Municipal Gas Utility must fulfill the IURC's requirements in order to become compliant with pipeline safety standards.

Modernization and Efficiency

Recent advancements in technology have allowed the natural gas industry to modernize itself in terms of natural gas resources and the development of more efficient uses of natural gas. New sources of gas (such as shale), which were not previously commercially viable to pursue now represent a large percentage of the recent increases in the country's proven or identified natural gas supplies, as well as incremental production. Other technological advancements in gas

appliances provide consumers with the opportunity to become more efficient and reduce their overall energy consumption.

Shale Gas

The emergence of unconventional sources of natural gas has affected the overall supply in our country. Whereas, liquefied natural gas According to the Energy Information
Administration's Annual Energy Outlook
2012, the U.S. possesses 2,203 trillion
cubic feet of technically recoverable
natural gas. At the current U.S.
consumption rate, this is enough
natural gas to last 90 years.

(LNG) was looked to as the answer to America's high gas prices in 2009, the focus has now changed primarily to shale gas supply. Where there was once a conversation about the need for

imports, the focus has now turned to exports and the profits that can be made overseas.²⁹ This reversal seen since 2009 demonstrates how quickly the natural gas industry can change and the potential risks associated with overemphasizing a single source of supply. The industry views shale gas as the most recent game changer; however, we must be aware of environmental concerns and monitor them accordingly.

Shale gas production is expected to increase from 5.0 trillion cubic feet (TCF) in 2010 to 13.6 TCF in 2035. According to the Energy Information Administration's Annual Energy Outlook 2012, the U.S. possesses 2,203 TCF of technically recoverable natural gas. At the current U.S. consumption rate, this is enough natural gas to last 90 years. Map 3 shows the locations of shale plays in the U.S.



Map 3

Shale Gas Plays in the Continental U.S.

Source: U.S. Energy Information Administration

Recently, consumer and environmental groups have raised concerns about the drilling techniques employed to extract shale gas. Studies have also suggested a correlation between drilling and environmental harm, and some states where drilling has occurred have reported concerns with air pollution and contaminated drinking wells. As a result, the federal government

²⁹ The economic impact of LNG exports from the United States," Deloitte Center for Energy Solutions. www.deloitte.com/view/en_US/us/Industries/oil-gas/9f70dd1cc9324310VgnVCM1000001a56f00aRCRD.htm

³⁰www.eia.gov/forecasts/aeo/er/executive summary.cfm

³¹www.eia.gov/forecasts/aeo/

³²www.eia.gov/energy_in_brief/about_shale_gas.cfm

launched a review of the commonly-used drilling technique known as hydraulic fracturing or fracking.³³ The U.S. EPA expects to release its initial findings on the environmental impacts of fracking in late 2014.³⁴

Legislation has also been filed at the state and federal levels. In 2012, Indiana passed House Enrolled Act 1107 requiring the state to adopt rules for reporting and disclosing information

The U.S. EPA expects to release its initial findings on the environmental impacts of fracking in late 2014, which should provide more insight on possible future regulation of this industry.

about fracking operations, including: the volume and source of base fluid used; a description of each additive product; the volume of each additive expressed as a percentage of the total fracturing fluid volume; the maximum surface treating pressure and the injection treating pressure; and any other information deemed necessary. On the federal side, House Resolution 1084 "Fracturing Responsibility and Awareness

of Chemicals Act of 2011" seeks to repeal the exemption of hydraulic fracturing from the Safe Drinking Water Act. This bill and a Senate version³⁵ were assigned to committees on March 15, 2011 with no further action being taken.

While it appears the industry is making strides to enhance transparency through disclosure, some remain skeptical. The results of the U.S. EPA study should provide the industry and the public with a better understanding of its view of fracking and the environmental impacts. With that being said, if new federal regulations are imposed or if restrictive legislation is passed regarding drilling techniques and practices, the price of natural gas could increase.

Coal Bed Methane

Coal bed methane (CBM) is another source of natural gas extracted from coal beds, which are un-mined coal seams a few hundred feet below the surface. It is recovered by drilling into the coal seam using water and sand at high pressure, thus fracturing the seam. This drilling process is similar in nature to shale fracturing. Currently, CBM accounts for approximately 8% of natural

-

³³Hydraulic fracturing is a technique used to create fractures that extend from the well bore into rock or coal formations so that the gas may travel more easily from the rock pores to the production well.

³⁴http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/index.cfm

³⁵S. 587: FRAC Act

gas production in the United States.³⁶ One operational CBM project is located in Sullivan County. Jericho, LLC received a certificate of public convenience and necessity from the IURC in December 2008 to construct, own, and operate a CBM gathering system as a public utility. Jericho is producing roughly 1.6 million cubic feet of CBM on a daily basis, with forecasts of up to approximately 2 million cubic feet in the future. All of Jericho's CBM gas production is purchased by ProLiance Energy³⁷ and transported via the Heartland Pipeline.³⁸

Renewables

Interest in agricultural, organic, and human-generated waste may lead to alternatives to conventional fuels such as natural gas, fuel oil, and coal. Since sustainable sources of natural gas provide economic and environmental benefits, continued success of these types of projects is important to Indiana's energy future. An example is the use of methane gas or renewable natural gas (RNG) from the anaerobic digestion of waste from livestock. One of the more well-known

facilities utilizing this technology is the Fair Oaks Farms dairy in Jasper County. Its anaerobic digester powers a 1 megawatt generator.³⁹



Another form of renewable energy is landfill methane gas (LMG). Since landfills are the largest

human-generated source of methane emissions in the United States, the ability to capture and use this gas has allowed it to grow as a renewable energy resource. Currently, there are 22 operational LMG utilization projects in Indiana, with the potential to develop additional facilities in the future. ⁴⁰ Map 4 identifies these facilities.

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³⁶www.natgas.info/html/coalbedmethane.html

³⁷ProLiance Energy is an Indianapolis-based natural gas marketing and supply company.

³⁸Order in Cause No. 43500, approved on December 17, 2008

³⁹www.nwitimes.com/business/local/fair-oaks-farms-dairy-fleet-to-run-solely-on-renewable/article_8a8c9674-e202-5056-9391-4e6a5c7541a2.html

⁴⁰www.epa.gov/lmop/

Map 4

Operational Landfill Methane Gas

Utilization Projects



Source: Indiana Department of Environmental Management

currently not.

Energy Efficiency

As of the printing of this report, four natural gas LDCs (Vectren North, Vectren South, NIPSCO and Citizens Gas) offer energy efficiency programs in Indiana. Eight additional small gas utilities received approval to implement energy efficiency programs similar to those being offered by Vectren, contingent upon the authorization of new rates.⁴¹

- Conservation Connection by Vectren -

In Cause No. 44019, the IURC approved a settlement agreement reached between the Indiana Office of Utility Consumer Counselor (OUCC) and Vectren to extend Vectren North and Vectren South's energy efficiency programs, known as "Conservation Connection." Vectren's Conservation Connection offers residential and small business natural gas customers energy-

saving opportunities in the form of appliance rebates, custom programs for businesses, and online tools to perform energy audits and bill analysis. ⁴² Originally approved in 2006, the program has helped save nearly 25 million therms of natural gas since its inception, which is enough energy to heat more than 30,000 homes for a year. ⁴³ Additionally, Vectren's customers have utilized more than 100,000 rebates (totaling \$12.3 million) and energy-saving



measures, which have led to \$20 million in cumulative avoided natural gas costs to date.⁴⁴ The most popular rebates issued include nearly 35,000 high-efficiency furnace rebates, 18,000 programmable thermostat rebates, and 7,500 high efficiency water heater rebates.

- Citizens Energy Savers by Citizens Gas -

Citizens Energy Savers provides a comprehensive set of tools to help conserve energy, including cash rebates toward the purchase of high efficiency natural gas appliances. From September 1, 2008 through August 31, 2010, the energy efficiency program has achieved combined estimated savings of 5,054,886 net therms. On November 29, 2011, Citizens filed for an extension of the program, which is pending under Cause No. 44124.

⁴¹Cause No. 43995

⁴²www.in.gov/oucc/2661.htm

⁴³Id.

⁴⁴Id.

- Save Energy Program by NIPSCO -

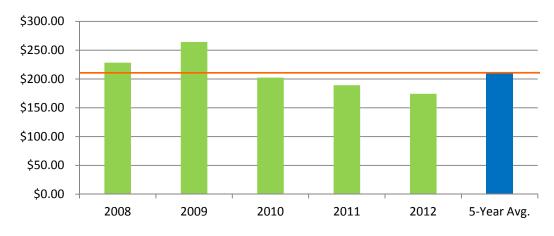
On December 28, 2011, the Commission approved the expansion of NIPSCO's natural gas energy efficiency program. One continuing element of the program is a cash rebate offer for residential customers who invest in energy efficient equipment. Since the rebate program began in 2008, more than \$8 million in rebates has been issued to customers. Commercial and industrial customers also have access to additional incentives. By introducing the new Custom Incentive Program and Prescriptive Incentive Program, eligible businesses could receive more than \$1 million per year for upgrading existing equipment or systems.⁴⁵

Pricing and Economics

Due to lower commodity costs associated with natural gas, residential customers on average experienced a decrease in their bills in 2012. In 2011, a residential customer using 200 therms would have received a bill for \$189.11. In 2012, this bill would have decreased to \$174.37. As shown in Table 3, both the 2011 and 2012 bills are lower than the five-year industry average of \$211.69, which shows how much the cost of natural gas has decreased from its peak in 2009. 46

Table 3

Residential Gas Bill Comparison for 2008 to 2012



Source: IURC data

⁴⁵www.nwitimes.com/business/local/nipsco-expands-energy-efficiency-programs/article_d6fc4fd8-86d3-50ec-b303-b118b0f55f3d.html

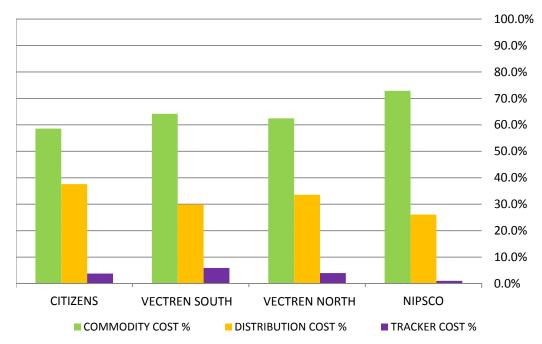
⁴⁶ "Residential Bill Gas Bills as of January 1, 2012," IURC's Natural Gas Division

Bill Composition

The cost of the actual natural gas commodity accounts for a majority of a customer's bill. On average, gas usage (i.e., commodity cost) accounts for approximately 64%, while operating costs account for approximately 32%. All other trackers approved by the Commission account for less than 4% of a customer's monthly gas bill. The following table demonstrates this cost analysis.

Table 4

Breakdown of Residential Billing Components for the Four Largest Indiana Gas Utilities



Source: December 2011 Utility Flex

Utilities do not profit from the gas commodity portion of consumers' bills, because the GCA tracker involves a dollar-for-dollar pass-through of gas costs. The overall weighted cost of gas and a utility's purchasing practices are reviewed by the OUCC before approval by the Commission. For costs to be approved, each utility must demonstrate its purchases were prudent. This means utilities must make reasonable efforts to mitigate price volatility, which includes having a program that considers current and forecasted market conditions and the price of natural gas. One way to achieve this is by having a diversified portfolio mix (i.e., a balance of purchases such as fixed, sport market, and storage gas).

Adjustable Rate Mechanisms

When natural gas utilities incur costs beyond their control (e.g., federal regulations and market price volatility), such costs usually fall outside the context of a rate case. In order for natural gas utilities to recover these costs, state law allows them to petition the Commission for approval of an adjustable rate mechanism or tracker. A tracker assists in the timely recovery of costs, which improves the financial health of the utility. Before costs are passed along to customers, the OUCC reviews the underlying support for the requested rate adjustment and may provide evidence supporting or contesting the request in proceedings. The Commission also reviews the tracked costs before rendering a decision.

The following examples describe authorized trackers available for consideration:

- Gas Cost Adjustment (GCA) Pursuant to statute, the GCA allows a gas utility to recover the commodity cost of gas not recovered through rates established during a rate case.⁴⁷ Most regulated natural gas utilities use this mechanism.⁴⁸
- *Pipeline Safety Adjustment (PSA)* The PSA allows the gas utility to recover prudently incurred, incremental non-capital expenses necessary in order to meet the requirements of the Federal Pipeline Safety Improvement Act of 2002, which imposed many new requirements on pipeline operators. Three natural gas utilities use the PSA.
- Energy Efficiency Funding Component (EEFC) & Sales Reconciliation Component (SRC) The EEFC funds the promotion of energy efficiency, and the SRC allows recovery of expenses from residential and commercial ratepayers that would otherwise be lost due to reductions in revenue caused by energy efficiency programs. Four natural gas utilities use these mechanisms.
- Normal Temperature Adjustment (NTA) The NTA reduces the risk of a gas utility not recovering its approved margin due to warmer-than-normal temperatures and mitigates

⁴⁷IC § 8-1-2-42(g)

⁴⁸Snow & Ogden is the only regulated natural gas utility that does not utilize the GCA tracker. Snow & Ogden is a small natural gas utility that receives natural gas from wells it owns and operates within the state. Therefore, its gas costs are stable and are built into its base rates.

the possibility of over-earning due to colder than normal temperatures during the heating season. Sixteen natural gas utilities use the NTA.

As previously mentioned, the winter of 2011-2012 was warmer than normal. Since the NTA stabilizes a utility's cash flow based on weather "normalized" margins, a warmer than normal winter causes a utility to under-recover. Therefore, the NTA charge on customer bills was higher than usual this winter, especially in March, which was unseasonably warm. Again, the NTA methodology is revenue neutral and designed to normalize or stabilize costs over the winter months.

Financial Assistance

For Hoosiers in need of assistance with their heating bills, there are programs that can help at the state and federal levels. The Commission's Order in Cause No. 43669 authorized Citizens Gas, NIPSCO, Vectren North, and Vectren South to reinstate their respective bill assistance

programs, providing qualifying Hoosiers assistance during the winter heating season. The Commission categorizes the individual utility programs under the term "Universal Service Programs" (USP).

In order for these programs to continue beyond October 31, 2012, each utility had to file a base rate case requesting approval of the assistance program. Both Citizens and NIPSCO filed rate cases, 49 which included requests to continue the USP. Given an anticipated shortfall in federal

History of USP



Vectren North, Vectren South, and Citizens Gas received Commission approval on August 18, 2004 in Cause No. 42590 to implement the first natural gas Universal Service Programs in Indiana.

funding, the utilities filed petitions seeking approval of temporary adjustments in 2011. In a consolidated proceeding,⁵⁰ the IURC granted the utilities approval to extend each of their USPs and allowed Vectren North and Vectren South to extend their USPs without initiating a base rate case until September 30, 2014.

⁴⁹Citizens' Order in Cause No. 43975 approved on August 31, 2011; NIPSCO's Order in Cause No. 43894 approved on November 4, 2010

⁵⁰Cause No. 44094 approved on December 7, 2011

In addition to the individual utility programs, federal funds are appropriated by Congress on an annual basis and are available through the Low Income Home Energy Assistance Program (LIHEAP), a social service program established in 1981. LIHEAP's mission is to help low-income households meet the costs of their home energy needs, as they pay a higher percentage of

LIHEAP Funding



There are two forms of LIHEAP assistance funding available. States can apply for a block grant, which is a formula, established by Congress that determines the amount of money distributed to a State based on weather and its low-income population.

States are also eligible to receive contingency funds, which is money the President releases, to help with energy needs based on an emergency. Usually, an emergency is related to extreme weather or dramatic energy price spikes.

their household income for it. An eligible applicant's household income must not exceed 150% of the poverty level or 60% of the state's median income. In Indiana, a family of four at the 150% poverty level has a household income not exceeding \$33,525. 51

During fiscal year 2011, Congress appropriated \$4.51 billion for LIHEAP funding; however, a 0.20% rescission reduction decreased this amount to \$4.5 billion in block grants and approximately \$200 million in emergency funds. ⁵² Of this, Indiana received approximately \$107.6 million in LIHEAP funding. This total consisted of approximately \$102.7 million in block grant funds and \$4.8 million in emergency funds. ⁵³ Indiana had approximately 730,000 households eligible for LIHEAP

financial assistance in fiscal year 2011, of which about 197,800 households received assistance. The average assistance to eligible Indiana households was roughly \$420. ⁵⁴

After implementing a 0.189% rescission reduction in fiscal year 2012, Congress appropriated about \$3.5 billion to the LIHEAP program assigning the entire sum to the base grants. Of this \$3.5 billion, Indiana received \$80 million. For fiscal year 2013, which will cover the 2012-2013 heating season, the President proposed cutting authorized LIHEAP funding from \$5.1 billion to \$3 billion. In response, many members of the House of Representatives petitioned the Chairman and Ranking Member on the Committee of Appropriations in March 2012 to consider

⁵¹Indiana Fact Sheet: www.liheap.org/?page_id=460

⁵²www.liheap.ncat.org/Funding/funding.htm

⁵³www.acf.hhs.gov/programs/ocs/liheap/funding/fund.html

⁵⁴Indiana Fact Sheet: www.liheap.org/?page_id=460

⁵⁵ www.liheap.ncat.org/Funding/funding.htm

⁵⁶Indiana Fact Sheet: www.liheap.org/?page_id=460

funding the LIHEAP program at the authorized amount of \$5.1 billion due to continued high unemployment and energy costs.⁵⁷

Regulatory Development

San Bruno Report

Despite the nation's overall excellent pipeline safety record, recent pipeline incidents in California, Michigan, Pennsylvania, and other locations have elevated the awareness of stakeholders and the public to the potential dangers of natural gas and hazardous liquid pipelines across the country. It has also prompted the IURC's Pipeline Safety Division to closely study the findings of the incidents, especially the one in San Bruno,

California for lessons to be learned.

On August 30, 2011, the National Transportation Safety Board (NTSB) issued a report regarding the San Bruno, California incident in September 2009.⁵⁸ The NTSB determined that the California Public Service Commission failed to detect inadequacies in PG&E's integrity management program and PHSMA's integrity management inspection protocols needed improvement.

In response to this finding, the IURC's pipeline safety engineers began reviewing historical records to verify that pipeline system segments were pressure tested prior to being placed in service. Starting in 2009, the Pipeline Safety Division also started to review and verify



operators' written pipeline integrity procedures, including operations and maintenance. Followup integrity program inspections are also being conducted for all transmission operators to determine how an operator identifies high consequence areas. This is required to be completed by December 2012.

⁵⁷http://liheap.org/?attachment_id=1080

⁵⁸www.ntsb.gov/investigations/2010/sanbruno ca.html

Indiana's Risk-Based Assessments

The IURC's Pipeline Safety Division has moved to risk-based assessment of the intrastate natural gas operators to identify, prioritize, and correct any vulnerable pipelines. Indiana's assessment is data driven, not calendar driven (i.e., the physical characteristics of the pipe and its surroundings are assessed, rather than solely assessing how long the pipe has been in the ground).

The assessment of threats to an operator's pipeline (transmission or distribution) includes an analysis of the type and age of pipe in the system; inspection of installation/operation procedures; inspection of material or welds; and analysis of any leaks due to corrosion, natural forces, excavation, or other damage from outside forces. An operator may be subject to more frequent inspections due its heightened risk based on the data gathered. Should an infraction of state or federal pipeline safety law be discovered, the operator can expect the violation to be dealt with firmly but fairly by the IURC.

Depth Study

In 2009, the General Assembly mandated a report for best practices concerning the vertical location of underground facilities for purposes of IC ch. 8-1-26. This section of the report addresses legislative intent, looking at the viability and economic feasibility of technologies used to locate underground facilities.

The Common Ground Alliance (CGA) is a member-driven association dedicated to public and environmental safety and to the prevention of damage to underground facilities. In March 2011, the CGA completed a study sponsored by the U.S. Department of Transportation identifying the best practices regarding damage prevention. Generally, the CGA recommends hand digging or soft digging within a 24-inch tolerance on each side of underground facilities as the safest practice. Vacuum digging, the use of high-pressure water or air that breaks up the soil, accompanied by a powerful vacuum that removes the loosened soil, is also an acceptable alternative identified by CGA.⁵⁹

 $^{59} www.commonground alliance.com/Content/NavigationMenu/Best_Practices/Common_Ground_Study/Common_Ground_Study.htm$

The CGA, equipment manufacturers, and the IURC's Pipeline Safety Division all strongly recommend hand-digging, air cutting, or vacuum excavation to expose underground pipe for visual verification. These are the safest means to accurately determine the true depth and location of underground facilities. Further, they comply with IC ch. 8-1-26. The Pipeline Safety Division recommends that lawmakers consider requiring all operators of locate equipment to be certified by an accredited organization in order to better protect underground facilities.

Know What's Below



When underground facilities are installed, there are depth requirements; however, due to factors outside of the companies' control, there is no guarantee that the lines will still be located in the same place after that date. Over time, underground facilities can relocate due to soil erosion, settling, etc.

IV. Appendices

${\bf Appendix} \; {\bf A-Revenues} \; {\bf for} \; {\bf Jurisdictional} \; {\bf Gas} \; {\bf Utilities}$

Utility Name	Operating Revenues*	% of Total Revenues
Northern Indiana Public Service Company	\$ 686,112,289	41.34%
Vectren North	584,151,553	35.20%
Citizens Gas (Municipal)	292,987,055	17.65%
Vectren South	96,383,904	5.49%
Ohio Valley Gas Corporation	28,568,405	1.63%
Midwest Natural Gas Corporation	15,073,464	0.86%
Sycamore Gas Company (f/k/a Lawrenceburg Gas Co.)	9,513,059	0.54%
Indiana Natural Gas Corp.	7,947,935	0.45%
Community Natural Gas Co., Inc.	6,782,680	0.39%
Boonville Natural Gas Corporation	4,889,652	0.28%
Indiana Utilities Corporation	4,767,334	0.27%
Ohio Valley Gas, Inc.	4,383,055	0.25%
Citizens Gas of Westfield	4,351,397	0.25%
Fountaintown Gas Co., Inc.	4,238,269	0.24%
Aurora Municipal Gas (Municipal)	2,470,993	0.14%
South Eastern Indiana Natural Gas Company, Inc.	1,720,714	0.10%
Switzerland County Natural Gas Co., Inc.	1,383,709	0.08%
Valley Rural Utility (Not for profit)	317,125	0.02%
Snow & Ogden	14,641	<0.01%
Total Revenue	¢ 1.756.057.222	100.00%
	Northern Indiana Public Service Company Vectren North Citizens Gas (Municipal) Vectren South Ohio Valley Gas Corporation Midwest Natural Gas Corporation Sycamore Gas Company (f/k/a Lawrenceburg Gas Co.) Indiana Natural Gas Corp. Community Natural Gas Co., Inc. Boonville Natural Gas Corporation Indiana Utilities Corporation Ohio Valley Gas, Inc. Citizens Gas of Westfield Fountaintown Gas Co., Inc. Aurora Municipal Gas (Municipal) South Eastern Indiana Natural Gas Co., Inc. Valley Rural Utility (Not for profit)	Northern Indiana Public Service Company Vectren North 584,151,553 Citizens Gas (Municipal) Vectren South 96,383,904 Ohio Valley Gas Corporation Midwest Natural Gas Corporation 58,568,405 Indiana Natural Gas Corp. Community Natural Gas Corp. Boonville Natural Gas Corporation 7,947,935 Community Natural Gas Corporation 4,889,652 Indiana Utilities Corporation 4,767,334 Ohio Valley Gas, Inc. Citizens Gas of Westfield 4,351,397 Fountaintown Gas Co., Inc. Aurora Municipal Gas (Municipal) South Eastern Indiana Natural Gas Co., Inc. 1,720,714 Switzerland County Natural Gas Co., Inc. 1,383,709 Valley Rural Utility (Not for profit) Snow & Ogden 14,641

^{*}Year ending December 31, 2011

Appendix B – Jurisdiction over Municipal Gas Utilities

Municipal Utilities under the IURC's Jurisdiction				
Aurora	Citizens Gas			

Municipal Utilities Withdrawn from the IURC's Jurisdiction (IC § 8-1.5-3-9)						
Bainbridge	Jasper	Osgood				
Batesville	Lapel	Pittsboro				
Chrisney	Linton	Poseyville				
Grandview	Montezuma	Rensselaer				
Huntingburg	Napoleon	Roachdale				
Jasonville	New Harmony					

Appendix C – Jurisdiction over Investor-Owned Gas Utilities

Investor-Owned Utilities under the IURC's Jurisdiction					
Boonville Natural Gas Corporation	Ohio Valley Gas, Inc.				
Community Natural Gas Company, Inc.	Snow and Ogden Gas Company, Inc.				
Citizens Gas of Westfield	South Eastern Indiana Natural Gas Company, Inc.				
Fountaintown Gas Company, Inc.	Switzerland County Natural Gas Company				
Indiana Natural Gas Corporation	Sycamore Gas Company				
Indiana Utilities Corporation	Valley Rural Utility Company				
Midwest Natural Gas Corporation	Vectren North				
Northern Indiana Public Service Company	Vectren South				
Ohio Valley Gas Corporation					

Appendix D – Residential Natural Gas Bill Survey (January 1, 2012 Billing)

Comparison by Therm Usage

				\leftarrow 0	Consumptio	on \longrightarrow
Utilities	Ownership	Last Rate Case	Order Date	150 Therms	200 Therms	250 Therms
Aurora Municipal Gas	MUN	43527	1/30/09	\$130.41	\$172.72	\$215.03
Boonville Natural Gas	IOU	43342	8/27/08	\$153.38	\$199.23	\$245.09
Citizens Gas	MUN	43463	9/17/08	\$134.52	\$173.86	\$213.20
Citizens Gas of Westfield	IOU	43624	3/10/10	\$161.81	\$207.23	\$252.65
Community Natural Gas	IOU	43377	8/27/08	\$115.27	\$146.91	\$178.55
Fountaintown Gas	IOU	43753-U	3/17/10	\$142.17	\$183.99	\$225.82
Indiana Gas Company (Vectren North)	IOU	43298	2/13/08	\$124.86	\$161.55	\$198.23
Indiana Natural Gas	IOU	43434	10/8/08	\$131.69	\$171.17	\$210.64
Indiana Utilities	IOU	43520	1/21/09	\$168.16	\$218.64	\$269.12
Midwest Natural Gas	IOU	43229	11/20/07	\$125.17	\$160.57	\$195.97
Northern Indiana Public Service Co. (NIPSCO)	IOU	43894	11/04/10	\$104.54	\$135.74	\$166.93
Ohio Valley Gas Corp. (ANR)	IOU	43209	10/10/07	\$145.59	\$189.28	\$232.98
Ohio Valley Gas Corp. (TXG)	IOU	43209	10/10/07	\$155.38	\$202.34	\$249.30
Ohio Valley Gas, Inc.	IOU	43208	10/10/07	\$131.11	\$169.98	\$208.85
Snow & Ogden Gas	IOU	42821-U	11/22/05	\$109.19	\$145.49	\$181.79
South Eastern Indiana Natural Gas Co.	IOU	43318-U	1/16/08	\$131.71	\$170.56	\$209.40
Southern Indiana Gas and Electric Co. (Vectren South)	IOU	43112	8/01/07	\$114.48	\$148.39	\$182.30
Switzerland County Natural Gas	IOU	42844	8/31/05	\$132.33	\$171.08	\$209.83
Sycamore Gas Company	IOU	43090	6/20/07	\$157.04	\$200.36	\$243.69
Valley Rural Utility Company (1)	NFP	42115	5/08/02	\$161.19	\$210.64	\$260.09
Industry Average	`			\$136.50	\$176.99	\$217.47

(1) Applicable to bills at September 1, 2011

Note

Drawing conclusions about a utility's performance is difficult due to many factors such as utility size and resources, period from the last rate case, storage options, geographic location, base rates, customer density and gas cost adjustment in effect at the time of the bill calculations.

Rates do not include normal temperature adjustment (NTA).

For purposes of this comparison: 100 Therms = 100 Ccf = 10 Dth = 10 Mcf

Appendix E – Residential Natural Gas Bill Survey (January 1, 2012 Billing)

Bill Comparison by 200 Therms

Utilities	5-Year Average	2012	2011	2010	2009	2008
Aurora Municipal Gas	\$202.24	\$172.72	\$172.72	\$189.37	\$247.85	\$228.55
Boonville Natural Gas	\$268.57	\$199.23	\$262.49	\$299.18	\$328.66	\$253.30
Chandler Natural Gas (**)	\$261.96	\$199.23	\$262.49	\$299.18	\$328.66	\$220.26
Citizens Gas	\$199.28	\$173.86	\$178.20	\$189.56	\$253.20	\$201.60
Citizens Gas of Westfield	\$212.71	\$207.23	\$200.61	\$182.19	\$249.89	\$223.61
Community Natural Gas	\$190.30	\$146.91	\$160.73	\$150.84	\$279.20	\$213.84
Fountaintown Gas	\$198.15	\$183.99	\$189.88	\$166.37	\$223.31	\$227.18
Indiana Gas Company (Vectren North)	\$189.52	\$161.55	\$166.67	\$175.67	\$236.02	\$207.68
Indiana Natural Gas	\$211.71	\$171.17	\$183.17	\$200.03	\$272.51	\$231.69
Indiana Utilities	\$275.73	\$218.64	\$269.00	\$324.29	\$317.56	\$249.16
Kokomo Gas and Fuel **	\$178.71	\$135.74	\$156.46	\$171.10	\$232.83	\$197.42
Midwest Natural Gas	\$207.90	\$160.57	\$181.67	\$202.95	\$261.88	\$232.43
Northern Indiana Fuel & Light (NIFL)**	\$173.19	\$135.74	\$151.94	\$138.25	\$238.63	\$201.39
Northern Indiana Public Service Co. (NIPSCO)**	\$163.88	\$135.74	\$150.89	***73.48	\$254.20	\$205.10
Ohio Valley Gas Corp. (ANR) *	\$220.36	\$189.28	\$200.50	\$198.44	\$249.50	\$264.06
Ohio Valley Gas Corp. (TXG) *	\$246.18	\$202.34	\$221.02	\$216.40	\$309.02	\$282.10
Ohio Valley Gas, Inc. *	\$213.30	\$169.98	\$194.02	\$176.72	\$274.18	\$251.58
Snow & Ogden Gas	\$145.49	\$145.49	\$145.49	\$145.49	\$145.49	\$145.49
South Eastern Indiana Natural Gas Co.	\$205.01	\$170.56	\$179.08	\$176.35	\$276.97	\$222.08
Southern Indiana Gas and Electric Co. (Vectren South)	\$190.82	\$148.39	\$153.56	\$173.57	\$257.01	\$221.57
Switzerland County Natural Gas	\$197.00	\$171.08	\$171.53	\$164.60	\$259.78	\$218.00
Sycamore Gas Company	\$230.25	\$200.36	\$193.22	\$211.98	\$283.06	\$262.64
Valley Rural Utility Company (1)	\$260.85	\$210.64	\$204.26	\$298.94	\$298.60	\$291.80
Industry Average	\$210.57	\$174.37	\$189.11	\$196.74	\$264.26	\$228.37

⁽¹⁾ Valley Rural Utility Company began natural gas service in July 2003; therefore, it is not included in the 10-year average.

Note

Drawing conclusions about a utility's performance is difficult due to many factors such as utility size and resources, period from the last rate case, storage options, geographic location, base rates, customer density and gas cost adjustment in effect at the time of the bill calculations.

Rates do not include normal temperature adjustment (NTA).

For purposes of this comparison: 100 Therms = 100 Ccf = 10 Dth = 10 Mcf

^(*) See last page for Areas Served

^(**)Chandler Natural Gas merged with Boonville Natural Gas on August 27, 2008 in Cause No. 43342. NIFL and Kokomo officially merged operations with NIPSCO on May 31, 2011 in Cause Nos. 43941, 43942, and 43943.

^(***) NIPSCO refunded dollars to consumers due to a change in its GCA filing frequency and regulatory authorized refunds that resulted in a lower overall billable amount.

2012 Communications Report

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I. Executive Summary

The Communications section of the Regulatory Flexibility Report discusses key issues facing the industry, both in Indiana and at the federal level. These topics include participation by the IURC in the development of changes to federal policies such as universal service and intercarrier compensation, as well as broadband and video service pricing. Additionally, the Report shows how Commission policies such as area code relief, numbering, and the certification of prepaid wireless eligible telecommunications carriers (ETCs) affect the economy of the state. It also highlights actions taken by the Commission to address specific challenges associated with these topics.

Universal Service

Universal service has been a key factor in the rapid development of today's telecommunications network. While originally focused on ensuring access to telephone service, the Federal Communications Commission (FCC) recently developed a National Broadband Plan to help connect Americans to the Internet. According to the National Broadband Plan, 5% of households in the United States do not have access to the Internet (a large portion of these households being low income). As a result of this new focus, resources previously designated for telephone service through the Lifeline/Link-Up programs will be reallocated to reduce waste, fraud, and abuse and add broadband as a supported service.

As the FCC considered the reform of its Universal Service Fund, it also looked at intercarrier compensation policy. The FCC has proposed several changes to the system, including eliminating access charges paid for completing long-distance calls. Because a significant percentage of smaller rural carriers' revenue is directly tied to access charges, federal high-cost support, and Indiana Universal Service Fund revenues (in some cases as high as 60%), the proposed changes may put them at risk of defaulting on loans, filings bankruptcy, or undergoing reorganization.

Prepaid Wireless ETCs

Historically, it has been challenging for Indiana, along with many other states, to raise awareness among eligible low-income households of the availability of the Lifeline/Link-Up discount. However, since the IURC approved a number of prepaid wireless "Lifeline-only"

ETCs, Lifeline subscribership has increased. Prior to the market entry of the Lifeline-only prepaid wireless providers, ¹ Indiana's Lifeline subscribership had peaked at 59,065 households in 2006. By 2010, subscribership had declined to total of 47,821 households. ² Based upon the latest data ³ from the Universal Service Administrative Company, Indiana now has 145,562 Lifeline subscribers representing an increase of more than 300% in two years.

Broadband Pricing

Broadband pricing heavily influences the adoption rate of the service. According to the Pew Research Center, fewer than 45% of all adults with household income less than \$30,000 had broadband at home, compared to 87% of all adults with household incomes over \$75,000. Consequently, the FCC has created the Connect America Fund to increase broadband availability and adoption. Additionally, several carriers have also begun voluntarily offering Internet service plans for \$9.95 to lower-income households.

Video Pricing

The price of video service has been greatly impacted by the rising costs of programming content. With some companies citing content price increases in excess of 70% this year, the effects of competition in the marketplace may not offset these increased costs. Consequently, customers are experiencing higher costs for video service. This is especially true for smaller companies as programming costs are significant and cited as a growing problem.

Area Code Relief

Current forecasting reports from the North American Numbering Plan Administrator (NANPA) indicate that area code 812, serving southern Indiana, has the shortest remaining life of the Indiana area codes. The forecast released in April 2012 projects that 812 will exhaust in the second quarter of 2015. The NANPA convened a conference call for the Indiana Telecommunications Industry Group on June 13, 2012, and the group voted to file a petition for relief. The IURC received the petition on August 3, 2012. The next step is for a procedural schedule to be set, which will include multiple field hearings in various towns throughout the

¹The first prepaid wireless Lifeline-only provider was approved in November 2010 (Cause No. 41052 ETC 55, Virgin Mobile)

²Universal Service Monitoring Report, Federal Communications Commission, Released December 2011, Table 2.4 ³Universal Service Administrative Company disbursement data for March 2012

southern part of the state. The projected exhaust date of area code 317, which serves the Indianapolis area, is not far behind.

II. Overview

Industry Structure

Indiana was one of the first states in the nation to take advantage of the benefits of reduced regulation for its communications services industry, realizing \$2 billion of private incremental

investment in broadband and video build out by telecommunications and cable providers since the passage of House Enrolled Act 1279⁴ (HEA 1279) in 2006. The central purpose of the statute was to facilitate

Commission involvement remains necessary in areas where competition alone may not provide solutions.

a competitive market for both telecommunications and video services, while maintaining a "light touch" regulatory model.

Regulatory Structure

There are currently 660 communications service providers (CSPs) that hold a certificate of territorial authority (CTA) to provide telecommunications, information, or video services in Indiana. In 2011, Indiana-generated revenues for services provided by CSPs doing business in



the state totaled \$2.75 billion.⁵
This is approximately 23% of the total intrastate revenues for all Indiana public utilities.

During the years following the passage of HEA 1279, the Indiana Utility Regulatory Commission (IURC or Commission) worked to modify

processes and policies and to eliminate those no longer required under the new regulatory structure. At the same time, the IURC implemented procedures to address new statutory responsibilities related to video franchising and the certification of CSPs. Although the role of

⁴P.L. 27-2006

⁵2011 Annual IURC Fee Billing Report

the IURC has changed, the agency continues to serve as a monitor of the new market environment and play a significant role in protecting Indiana's interests in federal matters.

The IURC is also involved in areas of the communications industry where competition alone may not provide solutions. For example, the Commission resolves carrier-to-carrier disputes, manages policies regarding telephone numbering resources (pursuant to federal law), and works to implement streamlined certification processes to facilitate competition by reducing barriers to entry. The Commission also protects consumers from unauthorized changes to their service and ensures continued access to basic telecommunications services in high-cost areas of the state.⁶

Changes in the Marketplace

The communications industry in Indiana continues to transition from the historical model of a regulated market where monopoly or near-monopoly carriers provided single communications services to customers whom often had no choice of provider. In today's market, CSPs offer multiple services, utilizing different technologies in order to compete with companies that once operated in separate and distinct industries. For example, many telephone companies provide video service, cable companies provide voice service, and both provide high-speed Internet service.

Widespread adoption of "triple play" (voice service, Internet service, and video service) or even "quadruple play" (triple play, plus mobile wireless service) has resulted in multiple providers offering packages of services to consumers, which has led to competition, lower prices, and increased customer choice. Many companies also offer bundles or packages at a discount over stand-alone pricing. In areas of the state where "triple play" is not available, consumers are wondering why.

Legal and Policy Foundations

As Indiana's communications industry continues to evolve toward a competitive market, the continued monitoring of federal communications issues is essential to identify and, when appropriate, actively participate in federal policy developments that may have the potential to

⁶IC § 8-1-2.6-0.1

affect Indiana's economy. The IURC monitors, reviews, and provides analysis and recommendations regarding issues under consideration at the federal level. As federal policies are implemented through the Federal Communications Commission (FCC) rulemakings and Orders, the IURC must pay close attention to ensure that Indiana's interests and concerns, as well as those of customers and providers, are addressed.

Federal Policies

The FCC recently modified or is reviewing many important issues under the IURC's authority. For example, the FCC modified the requirements for the types of services that are eligible to receive federal support.⁷ It also mandated stricter designation criteria for ETCs seeking to offer only the Lifeline program.⁸ Under consideration are also changes to federal numbering policies regarding the types of carriers that have access to numbering resources⁹ and 911 safety issues,¹⁰ which could also directly affect Indiana customers. Consequently, the IURC has filed comments on many of these matters, including the following topics:

- Universal service fund (USF) and intercarrier compensation (ICC)
 - USF is the mechanism to support widespread and affordable telephone service in high-cost rural areas. ICC is the mechanism which governs how carriers compensate each other for traffic exchanged between their respective networks.
 More information about the Universal Service reform can be found on page 108.
- 3G and 4G networks build out (Mobility Fund)
 - The Mobility Fund is a new federal fund that will allocate money to subsidize the build out of wireless infrastructure in unserved, primarily rural areas of the nation. To read more about the Mobility Fund, please see page 110.
- Lifeline/Link-up reform
 - o These programs were initially designed to increase the rate of telephone subscribership in low income households, but now reforms to reduce waste,

⁷USF-ICC Order, Released November 6, 2011, FCC 11-161, ¶ 78

⁸Lifeline and Link-up Reform and Modernization Order, FCC 12-11, Released February 6, 2012

⁹Vonage Holding Company's Request for Waiver in Order to Obtain Direct Access to Numbering Resources, CC Docket 99-200

¹⁰Facilitating the Deployment of Text-to-911 and Other Next Generation 911 Applications; Framework for Next Generation 911 Deployment, PS Docket Nos. 11-153, 10-255

fraud, and abuse and add broadband as a supported service are underway. For more information about Lifeline/Link-Up reform, please see page 105.

Programming costs

o Programming (content) costs vary among the different providers, with smaller phone and cable companies being charged more per customer for content. This hurts smaller video providers and has the potential to ultimately decrease competition within the marketplace and impede broadband buildout. Programming costs are further discussed on page 113.

• Anti-cramming rules

This problem involves third-party billing agents putting fraudulent charges on the customers' telephone bills. More information about anti-cramming rules can be found in Appendix B.

Important Federal Policy Changes and Initiatives in 2012

Several federal policy changes and initiatives impacting Indiana's consumers and CSPs were announced this spring. The IURC has worked hard this year to prepare for their impact and has provided a summary of each one below.

Connect America Fund | *Released on April 25, 2012*

Impact: The FCC launched the first phase of the Connect America Fund (CAF-1), which is intended to connect Americans who do not presently have broadband available to high-speed Internet service by the end of the decade. CAF-1 was established to fund broadband buildout in areas where traditional telephone service is offered by price cap companies (i.e., primarily larger, publicly-traded companies) not yet served by broadband. Approximately \$300 million was allocated to CAF-1 by the FCC to extend broadband to up to 400,000 previously unserved homes, businesses, and anchor institutions in rural America. Due in part to conditions attached to this funding by the FCC, some companies declined to accept the funds the FCC had tentatively allocated to them for this purpose. As a result, only slightly more than one-third (\$115 million) of the anticipated funds will be deployed under CAF-1.

Carriers had 90 days in which to accept or decline funding in areas designated for support, with aggressive buildout requirements that had to be commenced in a matter of months. On July

24, 2012, the price cap carriers announced their decisions regarding acceptance of CAF-1 allocations. Two Indiana companies accepted funding to deploy broadband in parts of three counties in areas covering

Connect America Fund			
	National Allocations Accepted		Indiana Allocations Accepted
AT&T	\$ 47.8 million	\$0	\$ 0
CenturyLink	\$89.9 million	\$ 35.1 million	\$ 41,075
Frontier Communications	\$ 71.9 million	\$ 71.9 million	\$ 96,800

approximately 39 census blocks. According to the FCC, the funds allocated to Indiana will assist with building out broadband to approximately 178 customers out of an estimated 120,000 currently without broadband service available. These allocations are detailed in the chart above.

Broadband Adoption Lifeline Pilot Program | Announced April 30, 2012

Impact: The FCC announced the criteria it will be looking for in applicants chosen to receive \$25 million of federal funding through the Broadband Adoption Lifeline Pilot Program. This is the first program offered by the FCC to evaluate the best ways to increase broadband adoption rates among low-income Americans, a group with notably low adoption rates. Applications were due by July 2, 2012. The FCC received 24 applications representing proposed pilot programs in 25 states, the U.S. Virgin Islands, and Puerto Rico; however, no Indiana companies submitted proposals for pilots in Indiana. Winners will begin their year-long projects this fall.

Mobility Fund Auction | *Announced on May 2, 2012*

Impact: The FCC launched Phase I of its Mobility Fund Auction and established a window for filing short form applications, which opened on June 27, 2012 and closed on July 11, 2012. In order to be eligible, winning bidders must provide 3G or 4G wireless service within three years of the award. Each winning bidder must also provide coverage to a minimum of 75% of the road miles in each census tract for which it wins support. The FCC declined to offer additional spectrum that would have permitted new entrants to compete for Mobility Fund dollars, thereby restricting funds to existing wireless providers and precluding rural companies from bidding on

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¹¹www.fcc.gov/blog/charting-broadband-opportunities-low-income-americans

spectrum and competing for wireless business. The Mobility Fund Auction is scheduled for September 27, 2012.

State Policies

The rules and policies currently in place ensure that the Commission can fulfill its responsibilities outlined in state statute. These include:

- Issuing CTAs, which are licenses required to operate in specific Indiana communities, to all CSPs;¹²
- Enforcing rules to prevent unauthorized switching of telecommunications providers or unauthorized charges added to customers bills (i.e., slamming or cramming);¹³
- Performing duties concerning the provision of dual-party relay services to speech and hearing impaired persons in Indiana;¹⁴
- Performing duties concerning the administration of 211, a hotline for consumers to obtain information about health and human services;¹⁵
- Fulfilling the obligations under the Telecommunications Act of 1996 (TA-96) concerning universal service and access to telecommunications services and equipment, including designation of eligible telecommunications carriers (ETCs);¹⁶
- Fulfilling the obligations under Section 706 of TA-96 requiring the FCC and each state commission to encourage the reasonable and timely deployment of advanced telecommunications capability to all Americans.
 - o "The Commission and each State Commission with regulatory jurisdiction over telecommunications services shall encourage the deployment on a reasonable and timely basis of advanced telecommunications capability to all Americans . . . by utilizing, in a manner consistent with the public interest, convenience, and necessity, price cap regulation, regulatory forbearance, measures that promote competition in

¹³IC § 8-1-2.6-13(d)(4)

¹²IC ch. 8-1-32.5

¹⁴IC § 8-1-2.6-13(d)(2)

¹⁵IC § 8-12.6-13(d)(3)

¹⁶IC § 8-1-2.6-13(d)(5)

- the local telecommunications market, or other regulating methods that remove barriers to infrastructure investment." 47 U.S.C. § 706
- This provision has added importance in light of recent FCC actions, including currently contemplated changes to ICC/USF policy, that could not only limit the ability of rural carriers to continue to invest in advanced technologies but threaten the future viability of the rural carrier business model.
- Mediating the disconnection of one carrier by another carrier to protect end-user customers from losing their service with no advance notice, pursuant to Section 251 of the TA-96;¹⁷
- Arbitrating and resolving interconnection disputes between telecommunications carriers, pursuant to Section 252 of TA-96;¹⁸
- Implementing the authority granted by state or federal law, such as numbering administration, area code relief, and federal truth-in-billing requirements for common carriers: 19
- Overseeing the Indiana Universal Service Fund, which provides cost recovery so that companies in high-cost areas²⁰ may continue to offer services at rates that are "just, reasonable, and affordable."
 - o "Consumers in all regions of the Nation, including . . . those in rural, insular, and high cost areas, should have access to telecommunications and information services . . . that are reasonably comparable to those services provided in urban areas and that are available at rates that are reasonably comparable to rates charged for similar services in urban areas." Section 254(b)(3) of TA-96
 - o The ability of the Commission to ensure that all citizens, particularly those in rural areas, have access to services in accordance with this provision of TA-96 is directly tied to the continued financial health of Indiana's rural service providers.
- Issuing certificates of franchise authority (CFAs), which are licenses required to operate in specific Indiana communities, to video service providers;²¹

¹⁷IC § 8-1-2.6-1.5(a)

¹⁸IC § 8-1-2.6-1.5(b)

¹⁹IC § 8-1-2.6-13(f)

²⁰High-cost service areas are designated by the federal government due to the high fixed costs of building and maintaining a telecom network in rural areas with low population densities or rugged terrain; 47 U.S.C. 254(b)(3) requires the availability of comparable service at a comparable price.

²¹IC § 8-1-34-16(a)

- Enforcing video service standards, as the designated franchise authority, regarding statutory reporting requirements; public, educational, and governmental (PEG) channels; and customer service standards for video service providers, pursuant to FCC rules in 47 C.F.R. 76.309;²²
- Participating in federal matters concerning Indiana (e.g., ICC); and
- Reporting requirements to the General Assembly.²³

III. Landscape

Service for All

The IURC is charged with analyzing the effects of competition and technological change on universal service and the pricing of all telecommunications services offered in Indiana.²⁴ In this section, the programs dedicated to expanding broadband and telephone service are discussed.

Broadband Service

Lack of broadband in rural areas is an important issue facing both Indiana and the nation

today. Affordable broadband can be an important driver of economic development and improve the opportunities of low-income and at-risk populations. Broadband deployment and adoption brings about new economic possibilities for both businesses and consumers.

The "Start up Savings: Boosting Entrepreneurship Through Broadband Internet" report by the Internet Innovation Alliance and the Small Business & Entrepreneurship Council shows how broadband is lowering the costs and barriers to entry for new Broadband Investment



Since deregulation in Indiana occurred in 2006, there has been an estimated \$2 billion of private incremental investment in broadband and video build out by telecommunications and cable providers.

businesses.²⁵ According to the report, businesses can save roughly \$16,550 in the first year. The

²²General Administrative Order 2007-2

²³IC § 8-1-2.6-4(c)

²⁴IC § 8-1-2.6-4(c)

report also noted that savings may be greater for businesses that use broadband in ways not included in the report, such as purchasing equipment and furniture or marketing products and services.

However, not all areas of the state are able to reap benefits like these due to two factors: 1) technological limitations facing broadband providers (e.g., distance from central office/wire center or loop length, lack of wireless coverage or congestion in a particular location) and 2) economics (i.e., no business case for deploying broadband in a particular location or a business

National Broadband Plan Goals

- 1. Establish competitive broadband policies.
- 2. Reform laws and policies to maximize the benefits of broadband in public education, health care, and government operations.
- 3. Ensure efficient allocation of broadband assets such as wireless spectrum, poles, and right-of-way.
- 4. Reform universal service mechanisms to support broadband in high-cost areas.

decision to deploy broadband someplace else due to lower costs or higher revenue).

To address the lack of broadband, Congress directed the FCC to develop a National Broadband Plan (NBP), along with a detailed strategy for achieving affordability in order to

maximize its benefits. On March 16, 2010, the FCC released the NBP, which found 95% of all households had access to high-speed Internet as of 2010; whereas, the other 5% remained unserved and tended to be concentrated in rural areas.

Telephone Service

The number of Indiana households with voice service is a fundamental barometer of the universality and affordability of telecommunications services. High telephone subscribership increases the value and functionality of the communications network for everyone by providing a reliable and instant means of communication to employers, schools, government agencies, and emergency services. According to the FCC's Universal Service Monitoring Report, Indiana tends to be below the national average in telephone penetration or "take rates."

²⁵http://Internetinnovation.org/small-biz/Start-Up-Savings-IIA-SBE-documentation.pdf

²⁶Universal Service Monitoring Report, Federal Communications Commission, Released December 2010

- Federal Universal Service -

The IURC is required to "fulfill its obligations under TA-96 and IC ch. 20-20-16 concerning universal service and access to telecommunications service and equipment, including the

Indiana Universal Service Fund



In 2007, the IURC implemented a state universal service fund to provide cost recovery to companies in high-cost areas so they may continue offering services at rates that are "just, reasonable, and affordable."

Absent this subsidy, companies serving these areas would struggle to earn a reasonable profit and therefore lack an adequate incentive to continue operation.

designation of ETCs."²⁷ One such obligation is to evaluate telecommunications carriers' petitions for ETC designation, which permits a carrier to receive support from the federal USF. The federal USF supports telecommunications companies that provide service in high-cost areas and offer assistance to low-income consumers, schools, libraries and rural health care providers.

- Lifeline and Link-Up -

Lifeline is a federal program designed to increase the rate of telephone subscribership among low-income citizens.²⁸ The program was recently streamlined to provide a uniform monthly discount to eligible low-income customers to offset the cost of maintaining voice telephony

service. Link-Up, the one-time discount towards the costs of setting up service, was eliminated in non-tribal areas by the FCC to reduce the costs of the program. All ETCs are required to offer the Lifeline program, which reimburses ETCs for the discounts they provide to low-income households.

- Prepaid Wireless ETCs -

Prepaid service allows customers to purchase an amount of minutes for use on their mobile device without signing a contract. Since the service is prepaid and there is no risk of nonpayment, credit is not a barrier to obtaining the service. In recent years, some prepaid

²⁷IC § 8-1-2.6-13(d)(5)

²⁸To be eligible, consumers must either have a total household income that does not exceed 135% of the Federal Poverty Guidelines or participate in one of the following programs: Medicaid, Food Stamps, Supplemental Security Income, Low-Income Home Energy Assistance Program, Temporary Assistance to Needy Families, or the National School Lunch Programs Free Lunch Program.

wireless carriers have received approval from the FCC to seek designation from states as ETCs for the limited purpose of offering Lifeline benefits. The prepaid wireless carriers use the federal subsidy to provide free minutes each month, and they often provide a free basic wireless phone. Many states have approved the designation of prepaid wireless ETCs, finding they may increase the take rate among Lifeline-eligible consumers. Other states, however, have concerns that

prepaid wireless carriers cannot properly verify that only one discount is being applied per household per month, as required by federal rules.

To address this issue, the FCC released the Lifeline Reform and Modernization Order on February 6, 2012. The Order overhauls the federal Lifeline rules to eliminate waste and inefficiency, increase accountability, and transition the program from supporting stand-alone telephone service to broadband.²⁹ Funding mechanisms for the program include eliminating Link-up support³⁰ on non-tribal lands; providing a phase down and elimination of toll limitation support;³¹ and replacing a tiered support system on an interim basis with a flat \$9.25 per customer per month reimbursement. The Order also announces two initiatives: 1) the creation

Map 1
Wireless Lifeline-Only ETC Coverage



²⁹Lifeline and Link Up Reform and Modernization Order, ¶2

³⁰Link-up support reimbursed ETCs for discounting up to \$30 or half of the customary charges for commencing telephone service.

³¹Toll Limitation support reimburses ETCs for the cost of blocking or limiting toll calls at no charge to Lifeline customers so the customer can avoid large long distance bills.

of a national database of Lifeline customers; 2) a broadband pilot program.³²

Changes at the federal level affect Indiana policies. In 2006, the General Assembly required the IURC to undertake a rulemaking and create a state Lifeline program structured upon federal law known as the Indiana Lifeline Assistance Program (ILAP).³³ The IURC has made two attempts to fulfill this legislative mandate, once in 2008 and again in 2010, but neither rule has been approved by the State Budget Agency, and both proposed rules have now expired. The FCC's new federal Lifeline rules eliminated the federal match for state Lifeline programs so eligible low-income customers will not receive as great an increased discount as anticipated.³⁴ This increases the cost of the program in relation to the benefit customers will receive which was a concern expressed by the State Budget Agency.

Historically, it has been challenging for Indiana, along with many other states, to raise awareness among eligible low-income households about the availability of the Lifeline/Link-Up discounts. However, since the IURC approved a number of prepaid wireless "Lifeline-only" ETCs, subscribership has increased. Prior to the market entry of the Lifeline-only prepaid wireless providers, Indiana's Lifeline subscribership had peaked at 59,065 households in 2006.³⁵ By 2010, subscribership had declined to a total of 47,821 households.³⁶ Based upon the latest data³⁷ from the Universal Service Administrative Company (USAC), Indiana now has 145,562 Lifeline subscribers representing an increase of more than 300% in two years.

Thus far, the IURC has designated five prepaid wireless Lifeline providers as eligible to receive the federal subsidy with conditions intended to prevent misuse of the program. These providers include: Virgin Mobile (d/b/a Assurance Wireless); TracFone (d/b/a SafeLink Wireless), i-wireless; TerraCom, Inc.; and Telrite Corporation (d/b/a Life Wireless). Map 1 on

³²In an effort to address the problem of duplicative support, the USAC is establishing a National Accountability Database to detect and prevent duplicative support in the Lifeline program. The database will contain information on the Lifeline subscribers, including the name, address, and phone number of each subscriber, as well as other unique identifiers. The FCC expects this database to be operational no later than February 2013. Another project is underway to study the effects of directly funding stand-alone broadband services for low-income consumers. Up to \$25 million will be dispersed to ETCs for their respective 18-month pilot programs. ³³IC ch. 8-1-36

³⁴The former federal Lifeline rules provided a 50% match of state funds.

³⁵The first prepaid wireless Lifeline-only provider was approved in November 2010 (Cause No. 41052 ETC 55, Virgin Mobile).

³⁶Universal Service Monitoring Report, FCC, Released December 2011, Table 2.4

³⁷USAC disbursement data for March 2012

page 106 shows the wireless coverage provided by these five carriers largely through leased facilities. Five additional Lifeline-only wireless carriers' ETC petitions are pending.

Universal Service and Intercarrier Compensation Reform

On November 18, 2011, the FCC announced major changes to the federal USF and Intercarrier Compensation (USF/ICC) regimes, which it claims will improve efficiencies and speed up the development of broadband service in rural areas of the United States, both of which are goals of the NBP. In the Order, the FCC proposes slashing existing high-cost support and repurposing the money to support voice telephony services (e.g., traditional service and Voice over Internet Protocol (VoIP) service) and networks capable of providing both voice and broadband services. Further, the FCC proposes to gradually phase out access charges paid for completing long-distance calls. The end result will be what is known as "bill-and-keep," in

In the USF/ICC Order, the FCC proposes slashing existing high-cost support and repurposing the money to support voice telephony services (e.g., traditional service and VoIP service) and networks capable of providing both voice and broadband services. Further, the FCC proposes to gradually phase out access charges paid for completing long-distance calls.

which companies would be paid nothing for terminating calls (whether local, long distance, wireless, or VoIP). All costs for terminating those calls would be paid directly by the customers, in the form of explicit bills with higher charges.

The FCC's changes raise concerns that some rural local exchange carriers (RLECs) might be at risk as a result of federally-mandated reductions in two of their most important revenue streams –

access charges and universal service/high-cost revenue — with no certainty of offsetting revenue increases. Concern is even greater for companies that have incurred loans or other fixed debt obligations often in order to build out broadband over the past decade. Consequently, reductions in revenues, if large enough, would jeopardize the ability of some companies to repay their debt on a timely basis and may put their business models at risk.

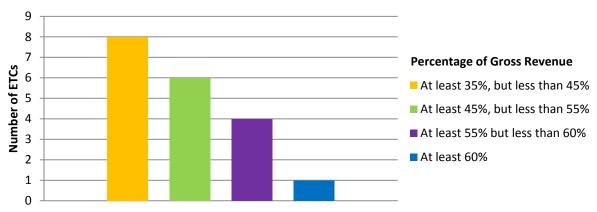
In order to assess the number of companies that could be adversely affected, a request for information³⁸ was sent to all ETCs, excluding pre-paid wireless carriers. Our review reveals a

³⁸In addition to requesting financial information and information about current debt loads, IURC staff also asked a number of questions about broadband availability and accessibility.

mixed result for Indiana companies. Of the 42 ETC respondents, 19 indicated the ratios of their switched access, federal high-cost support, and Indiana Universal Service Fund (IUSF) revenues when added together made up more than 35% of their annual gross revenues; whereas, 23 respondents indicated these ratios, in the aggregate, accounted for 35% or less of their respective annual gross revenues. The percentages are detailed in Chart 1.

Chart 1

ETC Dependence on Revenue from Sources other than End User Charges³⁹



Source: Responses to ETC information request

Also found through the information request is that a majority of respondents have no debt, and for those with outstanding debt or notes, there may be mitigating factors that would lessen the potential harm for some companies (e.g., the term of the debt, low interest rates, and/or a low ratio of annual debt service payments to annual gross revenues). Some Indiana local exchange carriers, however, may still be at risk of defaulting on their debt service payments or other fixed obligations, filing bankruptcy, or undergoing reorganization.

- Changes to ETC Requirements -

The FCC's order also changed which communications services are supported by federal universal service funds and high-cost support. ⁴⁰ The former definition favored traditional local exchange service providers as ETCs; whereas, the current definition redefines supported services as "voice telephony services." This allows CSPs that offer VoIP to now become ETCs, which

³⁹Revenue sources other than end-user revenue consist of switched access revenue, federal high-cost support, and IUSF support.

⁴⁰USF-ICC Order, Released November 6, 2011, FCC 11-161, ¶ 78

means they are eligible to receive universal service support for build out, maintenance, or the provision of services in high cost or underserved areas. Prior to this change, only telecommunications carriers were designated as ETCs. As a condition of receiving federal high-cost universal service support, all ETCs are required to offer broadband service in their supported area that meets certain basic performance requirements at rates comparable to offerings of broadband services in urban areas.⁴¹

- Mobility Fund -

Stemming from the FCC's USF/ICC reform order is the creation of a program known as the Mobility Fund, which was developed to subsidize the cost of building wireless networks for voice and broadband services to underserved and unserved areas. The program consists of two phases. Phase I is designed to fund capital improvements, and Phase II is designed to provide ongoing support for operation and maintenance

expenses. The first step of Phase I was to identify the census blocks where financial support should be available.

After reviewing the FCC's list of eligible census blocks for Mobility Fund support, the IURC identified an additional 1,416 census blocks in Indiana that may qualify.

After reviewing the FCC's list of eligible census blocks, the IURC identified additional census blocks

in Indiana that may qualify for Mobility Fund support. In comments filed with the FCC, the IURC identified an additional 1,416 census blocks that were underserved or unserved, according to the broadband availability data maintained by Indiana Office of Technology. The accuracy of this data is important for Indiana because inclusion on the FCC's list of eligible census blocks determines whether Mobility Fund support is available in a particular area.

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⁴¹USF-ICC Order ¶86

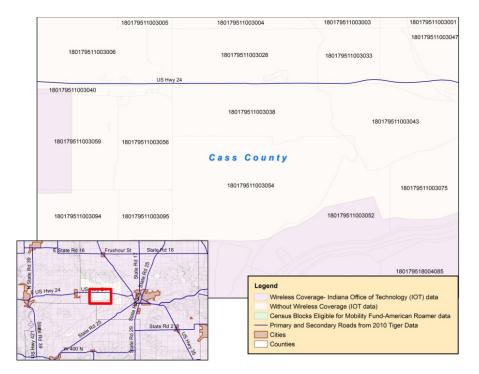
Map 2 Census Blocks without Coverage at the Centroid*



The Commission filed these comments with the hope that the FCC will add additional Indiana unserved census blocks to the list, which increases the likelihood carriers will bid for support to enable the deployment of wireless service in areas that are currently unserved. The FCC has yet to rule on this issue. Map 3 shows an example of census blocks without coverage.

Map 3

Example of Census Blocks in Indiana without Wireless Coverage



Pricing and Economics

Video Pricing

Increasingly, video service is being offered by providers under state-issued franchises. As of December 31, 2011, 28 of the 36 video service providers (VSPs) serving in Indiana held state-

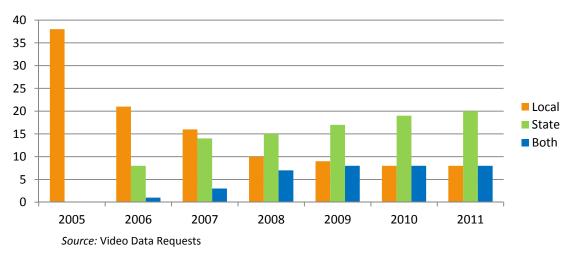
As of December 31, 2011, 28 of the 36 video service providers serving in Indiana held state-issued video service franchises, while the other 8 continued to provide service under local franchises.

issued video service franchises, while the other 8 continued to provide service under local franchises. In the case of incumbent cable providers, a company that chose not to terminate its local franchise agreement with its respective

communities in 2006 is able to keep the existing agreements until they expire. Upon expiration, the provider must file for a state franchise. Chart 2 shows how providers have transitioned from local to state over the years.

Chart 2

Number of Video Franchises by Year



Analyzing the benefits of competition in the video market is complicated by a number of factors. For example, most providers offer multiple video packages, ranging from a basic package with a relatively small number of channels to larger packages with more channels. In addition, an increasing number of providers offer optional on demand services and programming offered at incremental a la carte pricing. National content providers tend to bundle their offerings, requiring providers wanting to offer the most popular channels to take other channels as well, often with significantly smaller audiences, for a package price.

- Cost of Content -

Video programming content consists of traditional broadcast network stations, as well as specialty channels, like the sports channel ESPN. The cost of video programming content is a

factor in the prices consumers pay for video service. Many VSPs attribute price increases to the rising cost of programming content, which varies based on decisions made by the various VSPs. For smaller companies, programming costs are significant and cited as a growing problem. In fact, some VSPs cite annual content cost

Many video service providers attribute the need to increase prices to the rising cost of programming content, which varies among the different video service providers.

increases in excess of 70%. While some VSPs are confronted with a take it or leave it proposition, others report they have often been forced to carry less desirable channels in order to include the "must have" content or programming. VSPs also indicate content providers threaten

to (and sometimes do) pull their content just prior to programs with high viewer interest⁴² in order to force VSPs to accept terms and pricing.

Although not a new issue, the IURC raised concerns about content cost in comments filed last year with the FCC in its Notice of Proposed Rulemaking related to Retransmission Consent. The concerns focused on the national players that enjoy a content monopoly, not the traditional, over-the-air provider. In its comments, the IURC pointed out that, "Discrimination in the pricing of content does occur, and it is detrimental not only to the small network providers (cable companies and local exchange companies) involved and to their customers, but also to competition in the video market and the build out of broadband, particularly in rural, unserved and high cost areas." Unless the FCC addresses this issue, it is likely some smaller VSPs will cease providing video services and that the rates of remaining providers will likely increase.

Bundled Pricing

For consumers, package prices are typically lower than the sum of the stand-alone prices. However, it is important to note that packages and bundles may feature limited-term promotional pricing. Thus, comparisons between package prices and standalone prices that are valid today

may not be valid comparisons in the future, as existing promotions expire and new promotions are introduced.

Of course, some customers receive more benefits than others, and some customers may perceive a diminished benefit if they purchase a bundle containing services they Companies attempt to retain existing customers and attract new customers by offering packages at a significant discount.

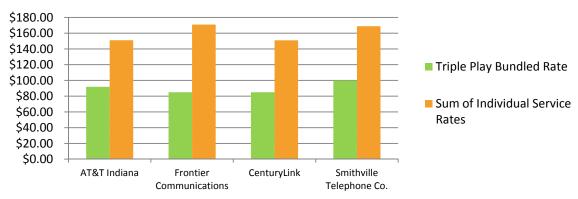
would not ordinarily purchase in order to obtain services they want. In response to this concern, companies have begun offering "build your own" packages and bundles. Chart 3 on the following page includes prices for select triple-play bundles and compares them with separately priced components of those bundles.

⁴²Super Bowl, World Series, the Oscars, Olympics, etc.

⁴³Initial comments of the Indiana Utility Regulatory Commission, MB Docket No. 10-71(FCC 11-31, Rel. March 3, 2011)

Chart 3

Comparison of Bundled Rates to Sum of Individual Service Rates



Source: Company information

The significant consolidation in the communications industry over the last few years, primarily in the wireless industry, has continued the trend toward obtaining packages and bundles from a single provider. Therefore, it will become increasingly more difficult for customers to obtain multiple services on a stand-alone basis from multiple providers.

Broadband Pricing

In most situations, as goods and services become more widespread, the unit cost decreases, and it becomes easier to expand production and sales due to economies of scale. Such is not the

case with broadband. The more widely dispersed the population, the more challenging the geography and terrain, and the greater the distance customers are from the equipment, the greater the cost. Consequently, the cost of providing service to remote rural areas is usually much greater than the cost of providing otherwise identical service in the small towns and cities that are the hubs of typical rural communities. Included in this report (Appendix A) are stories from three rural broadband providers about this issue and their unique perspectives.

Broadband pricing that is considered "too high" or

"unaffordable" is a deterrent to customers subscribing to broadband. This is true regardless of a

Benefits of Price Shopping



A recent study conducted by Miami-based Broadband Expert suggests that where multiple broadband providers offer service, the typical American family may be able to easily save \$60 per year by switching Internet service providers.

person's income; however, the impact can be especially significant for low-income households. According to the Pew Research Center, fewer than 45% of all adults with household income less than \$30,000 had broadband at home, compared to 87% of all adults with household incomes over \$75,000.⁴⁴ In response, a number of different programs are underway to make broadband more readily available to low-income households.

- Broadband Availability -

Broadband availability has been determined by analyzing mapping projects, stemming from National Telecommunications & Information Administration (NTIA) grants, and data reflected in the National Broadband Map. The IURC has also supplemented the picture of Indiana's broadband availability with data acquired from various other sources. According to this data, broadband is widely available in urban areas and rural areas served by small incumbent local exchange carriers (ILECs). The portions of Indiana lacking broadband tend to be rural areas served by the large ILECs.

There are at least two possible explanations for this discrepancy. Subsidies, such as the federal USF, have not historically been available to the large ILECs in Indiana. While broadband is not a USF supported service, some small and mid-sized companies have received USF for supported services which then allowed the use of other internal funds for deploying broadband. In addition, it has been difficult if not impossible to build a business case for build-out to the most hard-to-reach areas.

In any event, the FCC contends that changes to the federal USF program will address the lack of broadband in areas that have not been the recipients of USF support in the past. Last November, for example, the FCC adopted a seventh "principle" for universal service, in addition to the six that Congress previously established in 1996.⁴⁵ This new principle states that: "Support for Advanced Services – Universal service support should be directed where possible to networks that provide advanced services, as well as voice services."⁴⁶ At a more concrete

⁴⁴*Home Broadband 2010*, Table, p. 8 (Aug. 11, 2010)

www.pewinternet.org/Reports/2010/Home-Broadband-2010.aspx (visited Aug. 9, 2012)

⁴⁵47 U.S.C. § 254(b). Section 254(b)(7) permits the FCC and the Universal Service Joint Board to establish additional principles, beyond the six set by statute.

⁴⁶USF-ICC Order, para. 45

level, while the FCC has declined to add broadband to the list of supported services⁴⁷, nevertheless, the regulatory paradigm has shifted to "extending federal support to carriers deploying broadband networks in high-cost areas" (emphasis added).⁴⁸

In our ETC information request, we asked, "What percent of your customers have access to broadband service?" The 42 responding companies reported percentages ranging from 38% to 100%. The median response was 99%. Chart 4 shows the frequency distribution for this range and that 31 of the 42 respondents has made broadband available to at least 95% of their customers.

Chart 4

Percentage of Customers with Broadband Available

Percentage of Customers with Broadband Access

A survey of the National Telecommunications Cooperative Association (NTCA) members found that 71% of its members' customers have service with download speeds of at least 4 Megabits per second (Mbps). Based upon data collected by the IURC, it appears there are at least seven companies offering broadband service in Indiana at a maximum download speed of

⁴⁷USF-ICC Order, para. 65

⁴⁸USF-ICC Order, para. 67 (See, e.g., 47 C.F.R. § 54.7(b))

⁴⁹NTCA in 2009 had 580 member telcos: 258 cooperatives and 322 locally owned and controlled commercial companies. In addition, the association has 385 associate member suppliers, equipment manufacturers, and other companies providing financial, legal, engineering, accounting, billing, and other essential services to rural telephone systems, 99 subsidiary members, and 10 international telco members, 61 statewide and regional telephone associations bring NTCA's total membership to 1,135. www.ntca.org/about-ntca/who-we-are.html

⁵⁰NTCA 2011 Broadband/Internet Availability Survey Report (March 2012)

less than 4 Mbps, at a maximum upload speed of less than 1 Mbps, or both. Based upon preliminary analysis, these companies are likely ineligible for federal broadband support, which presupposes actual speeds of at least 4 Mbps downstream and at least 1 Mbps upstream. In order to understand the long-term implications for Indiana and to know which Indiana companies would be eligible for federal broadband support, staff would need to confirm the accuracy of these responses as well as verify the companies' future broadband deployment plans.

- Adoption -

To realize its benefits, broadband must be adopted or purchased by customers in areas where it is available. If adoption does not occur, it represents a missed opportunity for the economic and social benefits that broadband can offer and presents a substantial risk to providers that have invested in expensive and capital-intensive infrastructure. Insufficient subscription rates for broadband service jeopardize the provider's ability to recover costs and endanger their viability.

At least two companies with Indiana operations have voluntarily begun offering, or will soon offer, broadband services to eligible low-income customers for \$9.95 per month (plus tax). Internet Basics service⁵¹ offers eligible low-income homes download speeds of up to 1.5 Mbps and has been available from CenturyLink since October 2011. The City of Franklin was in the first group of communities nationwide to receive this offer. Comcast offers download speeds up to 3 Mbps and upload speeds up to 768 Kbps through its Internet Essentials service.⁵² CenturyLink and Comcast also offer netbook computers for a discounted price of \$150, as well as training in certain computer and Internet skills. Comcast service is determined by eligibility for the federal school lunch program (both free and reduced price lunches). CenturyLink ties eligibility to qualification for the Lifeline low-income telephone service program, which is based on eligibility for a broader range of federal programs.

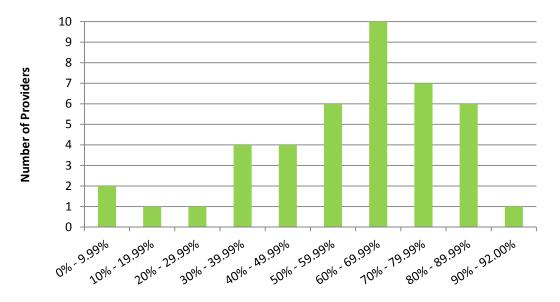
When asked in the IURC's ETC information request "Of your customers who have broadband available to them, what percent subscribe to the service?," responding companies reported subscription rates ranging from 5% to 92%, with the median response being 62%. Chart 5 shows the responses we received.

⁵¹CenturyLink Internet Basics: www.centurylink.com/home/Internetbasics/?rid=Internetbasics (visited May 31, 2012)

⁵²Comcast Internet Essentials: www.Internetessentials.com/faq/default.aspx (visited May 31, 2012)

Chart 5

Broadband Availability and Subscribership



% of Customers with Broadband Available Who Subscribe to Broadband

Source: Responses to ETC Information Request

- Why do some customers say no to broadband? -

Based upon feedback received from their customers, companies cite cost or price as the most common reason for lack of broadband adoption. The second most common reason is that customers simply don't need or don't want broadband. Other reasons given were lack of a computer and/or computer skills. These were also the top three reasons in the Pew Research Center's study, which is shown in Chart 6.

Adoption rates are heavily influenced by the characteristics of the broadband service available for purchase. Broadband service pricing and available speeds affect potential customers' desire, need, and ability to purchase broadband service. Potential customers' favorable perceptions of broadband service are also influenced by potential customers' understanding of its possible benefits, uses and applications.

Broadband service, like all communications services, requires some form of equipment, such as a personal computer, smart phone, or tablet, to utilize the service. Such equipment is often not included in the cost of broadband service and represents an additional cost to potential customers who might wish to subscribe. Additionally, potential customers need skills to use a computer and available service applications and/or access to training to acquire such skills. All of these factors can affect potential customers' ability, willingness, and desire to subscribe to broadband service.

Chart 6

Reasons Non-Internet Users Don't Use the Internet

In May 2010, 21% of American adults age 18+ did not use the Internet (as of April 2012, the number is 18%). When asked the main reason they do not go online (in their own words), they cited these factors.

Reason for not using the Internet	% of offline adults
Just not interested	31%
Don't have a computer	12%
Too expensive	10%
Too difficult	9%
It's a waste of time	7%
Don't have access	6%
Don't have time to learn	6%
Too old to learn	4%
Don't want/need it	4%
Just don't know how	2%
Physically unable	2%
Worried about viruses/spyware/spam	1%
Other	6%

Source: Pew Research Center's Internet & American Life Project, April 29-May 30, 2010 Tracking Survey

Regulatory Development

Number Request Streamlining

The FCC has authority over the distribution of numbering resources so that CSPs can provide telephone numbers to their customers. Federal rules determine the appropriate quantity of telephone numbers allocated to each CSP in order to prevent hoarding of telephone numbers and to forestall area code exhaust. However, the FCC acknowledged that situations will arise when a carrier will not be able to comply with federal allocation rules, yet will have a legitimate need for additional numbering resources, such as when a new hospital or commercial enterprise requests large blocks of numbers from their carrier of choice.⁵³ The FCC set up a waiver process (called the safety valve process) and delegated to state commissions the responsibility to approve or

⁵³In the Matter of Numbering Resource Optimization, *Third Report and Order and Second Order on Reconsideration* in CC Docket No. 96-98 and CC Docket 99-2000, dated December 2001

deny such waivers based upon a determination that the carrier has demonstrated a verifiable need for numbering resources and has exhausted all other available remedies.⁵⁴

On May 13, 2011, Governor Daniels signed into law Senate Enrolled Act 480, which added IC § 8-1-2.6-17 and allowed the IURC to delegate authority to its staff to grant requests for numbering resources submitted through the waiver process established by the FCC. On November 9, 2011, the IURC issued a General Administrative Order (GAO) streamlining the safety valve process.⁵⁵ A public hearing can be omitted if the petitioner provides all the documentation enumerated in the GAO, and there are no requests for a hearing from an interested party or the IURC within 10 days of the petition being filed. This reduces the timeline by two weeks or more. The IURC is considering how to further streamline this process.

Area Code Relief

Numbering administration rules, which are overseen by the FCC and partially delegated to the states, have evolved since the development of the North American Numbering Plan (NANP) in 1947. This system accommodates direct dialing of long-distance calls to the 19 countries in

the NANP.56 After this system was created, some area codes gradually exhausted. In other words, they ran out of unused or unallocated ten-digit telephone numbers.

After the passage of TA-96, competition among multiple local exchange and wireless carriers placed additional demands upon numbering resources. As a result, state utility commissions and the FCC have

The most recent exhaust of an Indiana area code was area code 219 in 2001, which covered northern Indiana. The Commission conducted numerous field hearings in affected communities throughout the area and gathered testimony from industry representatives and citizens.

implemented policies to conserve blocks of telephone numbers to postpone area code exhaust dates. When an area code is three years from its projected exhaust date, the North American Numbering Plan Administrator (NANPA) files a petition on behalf of the Indiana telecommunications industry with the IURC. The petition usually proposes different scenarios for relief of the area code, such as whether to split the area code into two or three areas or

⁵⁴47 C.F.R. 52.15 (g)(4)

⁵⁵GAO 2011-3

⁵⁶www.nanpa.com/about_us/abt_nanp.html (visited April 29, 2011)

implement an "area code overlay," which requires new number holders to receive a new area code but allows existing customers to keep their existing phone number(s). In the end, the IURC will determine how the area code will be relieved.

Pros and Cons of an Area Code Split or Overlay

Area Code Split	Pro When an area code is split some people get to keep their phone numbers and dial as usual. Seven-digit dialing for local calls continues for everyone.	 Con Some consumers are inconvenienced by the need to notify others of their new area code. Business customers face significant expenses related to changing marketing materials
Area Code Overlay	Pro Customers do not have to change their telephone numbers. Existing number holders keep the same area code. It is easy to implement another area code when necessary.	 Con All residents living within an area code overlay need to become accustomed to dialing ten digits for all local calls. Slow growth areas that are not driving area code relief also have to dial ten digits.

The most recent exhaust of an Indiana area code was area code 219 in 2001, which covered northern Indiana. The Commission conducted numerous field hearings in affected communities throughout the area and gathered testimony from industry representatives and citizens. In that instance, the IURC determined that an area code split was the best solution. Consequently, the area was split into three area codes: 219, 260, and 574. Map 4 on the following page shows the evolution of area code relief in Indiana from 1947 to the present.

⁵⁷Cause No. 41535, Final Order, June 14, 2001

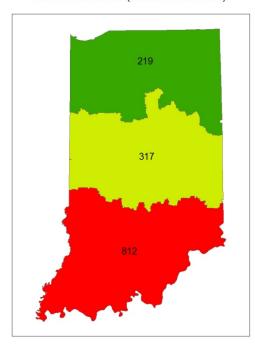
Map 4

Area Code Relief from 1947 to 2012

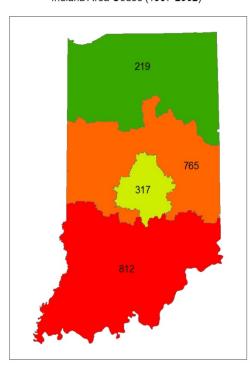
Indiana Area Codes (1947)

317

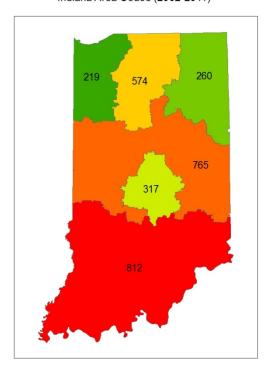
Indiana Area Codes (Post 1947-Pre 1997)



Indiana Area Codes (1997-2002)



Indiana Area Codes (2002-2011)



- Relief Pending in Area Code 812 -

Current forecasting reports from the NANPA indicate that area code 812, serving southern Indiana, has the shortest remaining life of the Indiana area codes. The forecast released in April 2012 projects that 812 will exhaust in the second quarter of 2015. Exhaust projections for 812 have been extended several times. In the 2008 report to this committee, the IURC stated the 812

area code would exhaust in the 3rd quarter of 2011. That date has been pushed back to 2015 due, in part, to conservation efforts by the IURC and the Indiana telecommunications industry.

The NANPA convened a conference call for the Indiana Telecommunications Industry Group on June

A relief petition for area code 812 was filed with the IURC on August 3, 2012 in Cause No. 44233. The petition recommends that the Commission approve an all services distributed overlay as the preferred form of relief for area code 812.

13, 2012, and the group voted to file a petition for relief. A relief petition was filed on August 3, 2012 in Cause No. 44233. The petition recommends that the Commission approve an all services distributed overlay as the preferred form of relief for area code 812. The next step is for a procedural schedule to be set, which will include multiple field hearings in communities throughout the southern part of the state.

The projected exhaust date of area code 317, which serves the Indianapolis area, is not far behind area code 812. According to the latest forecasting report, area code 317 is projected to exhaust in the first quarter of 2016 – a two year decrease in its projected life when compared with the forecasting report released in 2011.⁵⁸ The decrease is due to increased demand for telephone numbers in this area code. If the exhaust date remains the same or moves forward in the next Numbering Resource Utilization/Forecast (NRUF) report released in October 2012, the NANPA will conduct an area code relief planning meeting to consider filing an area code relief petition with the IURC. The current life projections for Indiana's six area codes are reflected in the following timeline.

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⁵⁸2011-2 NRUF and NPA Exhaust Analysis, North American Numbering Plan Administrator, October 2011

Chart 7

Projected Area Code Exhaust Dates



Source: North American Number Plan Administration, 2012-1 NRUF and NPA Exhaust Analysis, released April 2012

Provider of Last Resort Obligations

The IURC is committed to ensuring that all areas of the state have coverage by at least one carrier that is obligated to: 1) provide access to voice services (including 911 emergency response services) on a stand-alone basis and 2) offer a Lifeline discount to eligible customers. Building on the streamlined regulatory scheme set out in P.L. 27-2006, the General Assembly recently passed House Enrolled Act 1112 to allow an ILEC to opt-out of the state's provider of last resort (POLR) obligations, which require them to offer local exchange service throughout a defined geographic area. ⁵⁹

Starting July 1, 2012, a POLR can be relieved of its obligation in areas where there are at least two providers that offer supported services under federal law. After June 30, 2014, a POLR may be relieved of its state POLR obligation in any part of its service area that it selects. However, before doing so, the carrier must identify and provide notice of these areas to the IURC. This does not mean customers will lose service but does mean the traditional monopoly provider, because other providers are now available, is no longer obligated to serve all customers. The IURC has the necessary authority to ensure all customers have access to voice service, including 911 emergency services for public safety.

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⁵⁹IC § 8-1-32.4-9

POLR requirements are similar to the ETC concept found in United States Code Title 47. One of the primary requirements for obtaining an ETC designation is the provider's acceptance of the obligation to provide all customers in its service area with access to voice service. The combination of federal and state regulations helps ensure that all Hoosiers continue to have access to voice telephony services. As changes are discussed at the federal level, the IURC and its staff will continue to monitor these actions and serve as a resource for the General Assembly and the industry.

IV. Appendices

Appendix A – Issues, Risks, and Benefits of Rural Deployment

In addition to gathering and reviewing quantitative data and maps, IURC staff also met with representatives and/or held conference calls with representatives of several companies. The goal was to give providers an opportunity to "tell their stories" and to assemble a more qualitative portrait of broadband availability (and adoption) in Indiana. Following are stories for Endeavor Communications; Citizens Telephone Corporation; and Craigville Telephone Company, Inc.

Broadband and Video Availability and Adoption in Rural Indiana

- Clay County Rural Telephone Cooperative -

Clay County Rural Telephone Cooperative serves 9,700 access lines in nine exchanges in eight counties (Clay, Hamilton, Hendricks, Morgan, Owen, Parke, Putnam, and Tipton) doing business as Endeavor Communications (Endeavor). Endeavor began a fiber build-out project in 2003 and to date has completed fiber-to-the-home (FTTH) networks in five of its exchanges with plans to complete the sixth by the end of 2012. Endeavor hired 60 to 70 new employees to deploy its fiber when company management determined that it could save money using its own crews rather than contractors.

Endeavor offers its customers voice, high-speed Internet and 260 channels over IPTV (Internet Protocol TV); it is also diversifying into providing home security/monitoring and smart home services, as well as computer tech support. Over 75% of Endeavor's rural co-op members subscribe to its high-speed Internet service but only about 33% of those living in communities where Endeavor has deployed the IPTV facilities currently subscribe to that service. Endeavor's IPTV service competes with DISH Networks and DirecTV.

From a business standpoint, Endeavor indicated that video programming costs make up approximately 75% of the total costs associated with the provision of video service. A sizeable portion of the usage of Endeavor's Internet customers is due to Netflix; however, it is unclear how many subscribers rely on it as a replacement for the IPTV service. From an economic development perspective, Endeavor hopes that state and local economic development efforts will

be able to leverage the availability of broadband in their attempts to bring new businesses into its service territory.

- Citizens Telephone Corporation -

Citizens Telephone Corporation has approximately 2,000 telephone customers in two exchanges (Liberty Center and Warren), plus about 600 cable customers within the towns it serves. The territory Citizens serves is about 200 square miles or about half the area of Marion County/ Indianapolis.

Broadband is provided through DSL and all customers have access to broadband speeds of at least 10 Mbps and many have access to higher speeds, up to 20 Mbps. The broadband adoption rate is around 65%. Citizens has noticed a substantial decrease in its traditional landline telephone service subscribership due to movement to wireless and Internet service. Citizens provides fiber backhaul to five cell towers in the area using either fiber or high-speed T1 copper lines. Citizens offers a triple play package for \$110.

Citizens indicates that it already meets the FCC requirements for broadband deployment to be eligible for federal USF support for broadband. The company does not believe that the recent FCC-mandated changes to the USF and ICC regimes will affect its ability to make debt service payments in the future.

- Craigville Telephone Company -

Craigville Telephone Company has between 800 and 900 landline telephone customers in its ILEC service territory in Adams and Wells counties. It also formed a competitive LEC, Adams-Wells Communications, to provide high-speed Internet service to the City of Bluffton by connecting to the Indiana Fiber Network and building fiber out into Bluffton. More than 95% of Craigville's ILEC customers have access to broadband over DSL of 1 -2 Mbps. With the addition of a remote, customers will be upgraded to 8 Mbps by the end of the summer. The company enjoys a 70% adoption rate.

In the Bluffton area, where Adams Wells competes with AT&T and Mediacom, they have attained a 50% adoption rate for high-speed Internet and have added 450 video subscribers in the

area. While company representatives indicate that video service is not, on its own, contributing to margins, they believe that by providing video as part of a triple play, the company is able to attract new customers.

Appendix B – Summary of IURC Comments Filed with the FCC

Section XV Rulemaking on USF Reform Intercarrier Compensation: Initial Comments (Filed March 25, 2011) - The IURC applauded the FCC's efforts to address areas where there is gaming of the intercarrier compensation system resulting in the improper boosting or reduction of payments received by carriers resulting from: 1) artificially stimulating telecommunications traffic (traffic pumping), 2) hiding the identity of an originator of telecommunications traffic (phantom traffic) and 3) uncertainty about the compensation associated with VoIP enabled services.

USF/ICC NPRM: Initial Comments (Filed April 18, 2011) - The IURC urged the FCC to proceed cautiously with reform of the USF/ICC systems to ensure that rural carriers are not unnecessarily negatively impacted and that state commissions continue to have a meaningful role to play in implementing changes in policy that are within their jurisdictions.

Lifeline and Link Up NPRM: Comments (Filed April 21, 2011) - The IURC commended the FCC on addressing reform issues and problems associated with the federal USF programs for low-income customers but identified a number of areas where the FCC should identify and develop metrics for determining when the programs have achieved success in solving those issues and problems.

Retransmission Consent NPRM: Initial Comments (Filed May 27, 2011) - The IURC urged the FCC to address the fact that small rural video service providers often face unfavorable pricing for video content in comparison to larger video service providers and that such discriminatory pricing inhibits the wider deployment of video service and broadband service in underserved rural areas.

Retransmission Consent NPRM: Supplemental Reply Comments (Filed July 5, 2011) - The IURC clarified that its concern regarding the difficulty faced by small video providers in pricing of video content involved national content providers and not the local over-the-air content providers.

USF/ICC Further Inquiry: Initial Comments (Filed August 26, 2011) - The IURC urged the FCC to adopt the USF/ICC reform plan crafted by the State Members of the Federal-State Board

on Universal Service, citing the need to preserve state-federal cooperation as new USF/ICC policies are adopted to promote the deployment of broadband.

Cramming NPRM: Comments (Filed October 24, 2011) - The IURC expressed support for the FCC's proposed cramming rules that would provide for better notification of customers regarding third party charges for services being placed on telephone bills, and the IURC suggested additional policies based on its extensive experience in assisting Indiana customers with their cramming complaints.

Final USF/ICC FNPRM: Comments (Filed January 18, 2012) - The IURC urged the FCC to move cautiously in implementing changes to its policies on comparable rates for broadband, support for carriers with overlap by unsubsidized competitors, and penalties meant to ensure accountability of USF recipients, in order to ensure that factually based, custom-tailored policy mechanisms are applied to carriers.

Final Phase II USF/ICC FNPRM: Comments (Filed February 24, 2012) - The IURC urged the FCC to cautiously proceed with implementing the access charge reforms to guard against the occurrence of unintended negative financial consequences to rural carriers and to allow state commissions flexibility in implementing the changes.

Mobility Fund Phase I Auction: Comments (Filed March 16, 2012) - The IURC provided information to the FCC regarding Indiana census blocks that were not included in the FCC's list of census blocks unserved by wireless telephone service. Using data compiled by the Indiana Office of Technology, the IURC identified additional census blocks that may not have wireless service at their geographic centers.

Mobility Fund Census Blocks: Reply Comments (Filed March 26, 2012) - The IURC provided supplemental information on census blocks potentially unserved by wireless coverage in Indiana.

USTelecom Forbearance Petition: Comments (Filed April 9, 2012) - Commissioner Larry Landis urged the FCC to refer the USTelecom's February 12, 2012 petition for forbearance from legacy telecommunication regulations to the Federal-State Joint Board on Separations in order to assess the impacts and interrelationship with other federal rules.

Appendix C – Communications Industry Statistics

New Communications Service Provider CTA Petitions Filed			
Type of Service 2009-2010 2010-2011 2011-20			
Information Service	27	10	23
Telecommunications Service	15	11	14
Video Service	12	0	0
Telecommunications & Information Services	2	6	8
Telecommunications & Video Services	0	0	0
Information & Video Services	5	1	1
Total	61	28	46

New Types of Service in Notices Filed by Existing Providers Since 7/1/09			
Type of Service	2009-2010	2010-2011	2011-2012
Information Service	31	7	2
Telecommunications Service	13	12	2
Video Service	6	1	2
Total	50	20	6

State-Issued Video Franchise Authority		
Number of State-Issued Franchises since 7/1/06	33	
- Number of Existing Providers as of 7/1/06	15	
- Number of New Franchises since 7/1/06	18	
Number of Franchises Issued from 7/1/11 to 6/30/12	6	
Number of Franchise Petitions Pending as of 7/1/12	0	

2012 Water and Wastewater Report

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I. Executive Summary

The Water and Wastewater section of the Regulatory Flexibility Report discusses key issues facing the industry. These topics include increasing costs due to significant infrastructure needs, related cost recovery mechanisms, water efficiency efforts taking place at state and federal levels, and steps being taken to assist small utilities. It also highlights actions taken by the Commission to address specific challenges associated with these topics.

Infrastructure Needs

According to the U.S. Environmental Protection Agency's (U.S. EPA) "2007 Drinking Water Infrastructure Needs Survey and Assessment" and its "2008 Clean Watersheds Needs Survey," Indiana's water and wastewater infrastructure needs total \$13 billion over the next 20 years, which will likely result in significant rate increases. According to the U.S. Bureau of Labor Statistics, water rates are rising more than electricity or natural gas rates and rising much faster than the overall consumer price index (CPI). For example, from 2002 to 2011 water and wastewater rates rose 5.56% per year while the CPI only rose 2.43% per year. The primary drivers of these rate increases include: 1) replacement of aging infrastructure; 2) compliance with U.S. EPA standards such as water quality and wastewater effluent; 3) growing demand; and 4) the relocation of facilities for city and state road projects.

Recovery Mechanisms

In order to encourage investment and limit the rate impact on customers, state law allows for certain expenses to be recovered outside of a base rate case. Indiana was the second state to approve the use of a capital recovery mechanism, called the distribution system improvement charge (DSIC). The DSIC allows water utilities to recover the costs of improvements to existing distribution systems without a rate case when investments are made. This results in rate increases that tend to be more gradual over time. Utilities may also use the minimum standard filing requirements process to update their rate base for capital investments incurred up until the final hearing. This can be an incentive to invest in capital improvements, as the utility does not need to wait until a later rate case to earn a return on the investment.

Water Efficiency Efforts

Another way to stave off rate increases is to reduce demand and ensure water is being used efficiently. However, with increased conservation comes decreased consumption, which may lead to a decline in revenue. The challenge then becomes implementing conservation programs without negatively impacting the financial viability of the utility. Conservation and more efficient water use can also help during periods of drought and high temperatures like Indiana experienced this summer, during which time a number of municipalities restricted water use for residential customers.

Lack of rain, high temperatures, main breaks, and unaccounted-for-water, can result in low water pressure or supply shortages. To address these issues, the Commission, the Indiana Department of Environmental Management, and the Indiana Department of Natural Resources enforce rules designed to promote service quality. Actions through the Legislature are also addressing water issues. For example, Senate Enrolled Act 132 charged the IURC with aggregating information about water resources within the state in order to identify how financial resources are being used; what the infrastructure investment needs are statewide; and how to minimize impact on customer rates and charges through recommended actions.

Assistance for Small Utilities

Small water and wastewater utilities are prevalent in Indiana. While not all small utilities are troubled, they are more prone to it because of their size and lack of management expertise. When a utility becomes troubled, it may experience environmental liabilities, infrastructure breakdown due to a lack of investment, or financial mismanagement. Although most small utilities have withdrawn from the Commission's jurisdiction, the agency has proactively taken steps to improve the management and operations of regulated utilities by offering training workshops, assisting with rate application filings, proposing alternative regulatory procedures, and plans to develop a utility accounting manual.

II. Overview

Industry Structure

There are many utilities providing water and wastewater service to Hoosiers, organized in

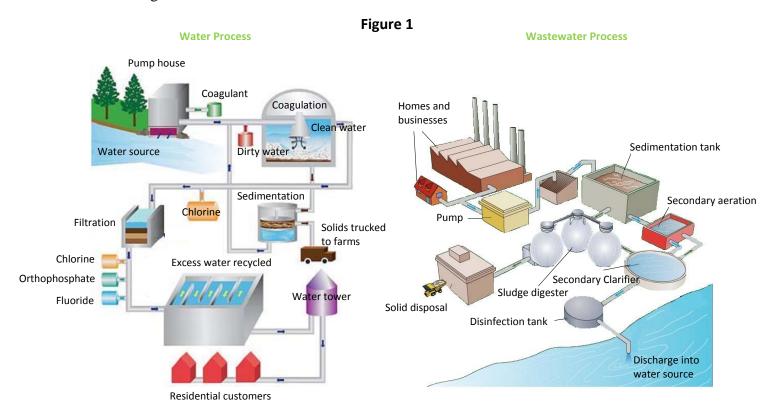
various legal forms: investor-owned utilities, municipal utilities, not-for-profit utilities, regional water/wastewater districts, water authorities, and conservancy districts. The Indiana Utility Regulatory Commission (Commission or IURC) is the economic regulator over certain types of these entities, while the Indiana Department of

The legal form of a utility determines whether the utility is subject to the Commission's jurisdiction and the extent of the Commission's regulatory oversight.

Environmental Management (IDEM) regulates water quality and the Indiana Department of Natural Resources (DNR) oversees the state's water resources.

Process

Before water is ready for retail use, it usually must be treated to make it drinkable. Similarly, wastewater must be treated before it can be released back into a water source. Both processes are shown in Figure 1.



Regulatory Structure

The legal form of a utility determines the existence and extent of the Commission's jurisdiction. While many water and wastewater utilities were regulated initially, state statute allows certain utility types to withdraw from jurisdiction. Table 1 shows the number of regulated utilities and those that have withdrawn (Appendices C, D, and E list the utilities by name). For other water and/or wastewater utilities, the IURC has limited or no oversight. Table 2 breaks down which utilities the agency regulates and generally does not regulate with regard to rates and charges or rules and regulations.

Table 1

Jurisdictional and Withdrawn Water and Wastewater Utilities

Type of Utility	Number of Jurisdictional Utilities	Number of Withdrawn Utilities
Municipal Water	34	359
Not-For-Profit Water	37	56
Investor-Owned Water	9	1
Conservancy District Water	9	0
Not-For-Profit Wastewater	6	11
Investor-Owned Wastewater	23	9
Not-For-Profit Water/Wastewater	2	4
Investor-Owned Water/Wastewater	12	2

Table 2

Commission Jurisdiction Based on Utility Type

Type of Utility	Rates and Charges	Rules and Regulations	Ability to Withdraw from Jurisdiction	No Jurisdiction	СТА
Investor-Owned Water*	✓	✓	✓		
Investor-Owned Wastewater*	✓	✓	✓		✓
Not-for-Profit Water	✓	✓	✓		
Not-for-Profit Wastewater	✓	✓	✓		✓
Municipal Water	✓		✓		
Municipal Wastewater				✓	
Regional Water District				✓	
Regional Sewer District**				✓	
Conservancy Water District***	✓		✓		
Conservancy Sewer District				✓	

^{*} Investor-owned water and sewer utilities with 300 customers or less can opt out of the IURC's jurisdiction, per IC § 8-1-2.7-1.3.

^{**}Campgrounds served by regional sewer districts have the ability to appeal to the Commission's Consumer Affairs Division for an informal review of a disputed matter, per IC §13-26-11-2.1.

^{***} Water conservancy districts with fewer than 2,000 customers can opt out of the IURC's jurisdiction, per IC § 8-1-2.7-1.3.

The Commission regulates 103 of the 824 water utilities and 43 of the 544 wastewater utilities. Regulated water systems have \$3.8 billion of utility plant in service, annual revenues of \$543 million, and a total rate base of \$2.3 billion,

while regulated wastewater utilities have \$424.2 million of utility plant in service, annual revenues of \$54.0 million, and a total rate base of \$33.9 million.

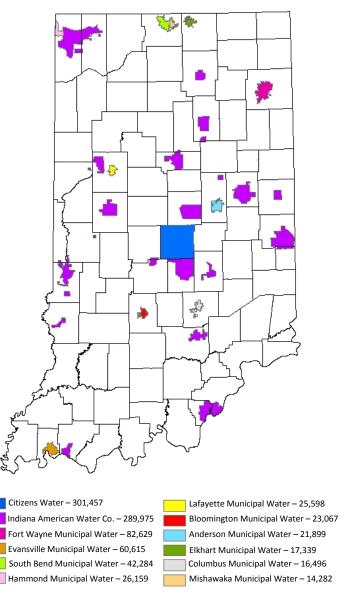
Although the Commission only regulates a fraction of the water utilities, these entities serve approximately 53% of Indiana's water consumers. This is because numerous water systems withdrawn from the IURC's jurisdiction only serve a small number of customers; whereas, the largest regulated water utilities provide service to primarily urban areas that are more densely populated, as shown in Map 1.

With regard to wastewater, the majority of customers are served by non-jurisdictional utilities due to the fact that the Commission does not regulate municipal wastewater systems. Based on 2010 data, only three regulated utilities serve more than 5,000 customers: Sanitary District of Hammond (33,383 customers); Hamilton Southeastern Utilities, Inc. (18,169 customers); and Utility Center, Inc. (11,922 customers).

Map 1

Largest Regulated Water Utilities

and the Number of Customers



Source: 2010 Commission Annual Reports
Note: Fire protection customers and interdepartmental sales have been removed; municipal systems are based on city boundaries and may not represent the actual service territory.

¹The CWA Authority, which serves Indianapolis sewer customers, was not under Commission jurisdiction until July 2011.

Age Profile

Aging infrastructure is one of the most critical problems in the water and wastewater industry. This is because it is costly to replace infrastructure that is largely underground, which is further discussed on page 144. For example, water systems are comprised of wells (for

Capital Improvements



In 2009, the City of Indianapolis
Department of Waterworks
submitted to the Commission a
Capital Improvement Program
for its water distribution system
(now owned and operated by
Citizens Water) totaling
approximately \$112 million for
2010 and 2011. That program
budgeted a total of \$6 million or
\$3 million per year to replace
and/or rehabilitate older CI
water mains. This amounted to
more than 5% of the total capital
budget.

groundwater), treatment facilities, water tanks, and distribution systems. The distribution systems, composed of the pipes, valves, and pumps, move water from the treatment plant or water tanks to end users. Throughout Indiana, pipes range widely in age and material. Many older systems built during the turn of the last century consist of cast iron (CI) and even wood piping that would not be used today.

Due to the age of their water systems, Indiana's oldest communities are experiencing an increase in water main breaks made of CI pipe. Distribution system piping manufactured and installed during the growth periods of the 1940s and early 1950s is particularly vulnerable due to the common use of a thinner pipe wall and gray iron. This

particular generation of CI has become more brittle with age and is beginning to fail. Further, deterioration can worsen in piping that was installed in highly corrosive soils. As this generation of piping requires replacement, our oldest and largest communities bear the greatest burden financially, because these pipes constitute the majority of the distribution system.

Newer systems rely on polyvinyl chloride (PVC), high-density polyethylene (HDPE), and ductile iron (DI) piping. Although the materials used in modern pipe manufacturing often have superior corrosion resistance, some materials are unquestionably thinner and cheaper than their alternatives. This requires greater emphasis on alteration to ground conditions and proper installation to achieve the desired longevity of the infrastructure. Modern plastic pipes such as PVC and HDPE have strong corrosion resistance properties but generally have weaker structural properties. In many cases, utilities may prefer a structurally stronger pipe such as DI at a greater material cost to mitigate the risk associated with installation errors.

Supply

While often a topic in the arid Southwest, and more recently in the Southeast, water supply

issues are now being more frequently discussed in the Midwest. In fact, the Indiana Department of Homeland Security and the DNR issued a Water Shortage Warning for the entire state this summer. The goal of the warning declaration was to reduce water use by 10% to 15% through voluntary conservation measures to avoid shortages, relieve stressed sources, and to prevent the need for mandatory water use restrictions. The City of Indianapolis and several of the surrounding municipalities also called for conservation, but in this case it was mandatory for residential customers due to lower-than-normal supply levels for Citizens Water. Upon implementing the watering ban, usage decreased by 20% or

Response to Drought Conditions

To determine the extent of the challenges facing the industry, the Commission issued a survey to all regulated water utilities. The survey requested information about supply levels, main breaks, and the continued ability of the utilities to serve their customers should the drought last through the fall.

more than 40 million gallons of water per day.² Factors that can lead to inadequate supply levels or service are detailed below.

- Lack of Rain and High Temperatures -

One issue related to water efficiency planning is summer watering and the shortages it may cause. The lack of rain and high temperatures may stimulate increased summer watering, which can strain the capacity of a water system. Summer watering costs utilities millions of dollars as they are required to meet peak demand by finding or building additional water supply and expanding water treatment plant capacity.

- Low Water Pressure -

In severe cases of drought, water shortages can lead to low water pressure, which adversely affects fire protection and increases the potential for water contamination. Municipal utilities have recently taken action to control water usage during periods of low supply. Steps taken include adding new sources of supply and/or augmenting existing supplies through purchase agreements with neighboring utilities. While some municipalities have passed ordinances that

²www.theindychannel.com/news/31277190/detail.html

levy fines on customers when they irrigate on restricted days, other utility initiatives, mainly outside of Indiana, include rate structures that provide price incentives to conserve water and reduce consumption.

- Unaccounted-for-Water -

Unaccounted-for-water or non-revenue water (NRW) is simply the difference between the quantity of water pumped at the source or purchased from a wholesaler and the quantity actually sold (metered sales). The difference is lost at some point due to circumstances such as leaks in the system, unauthorized use, or firefighting. According to the World Bank, "the total cost to water utilities caused by NRW worldwide can be conservatively estimated at \$14 billion per year, with a third of it occurring in the developing world."

Such water losses typically represent a loss to the bottom line for the utility and ultimately represent a cost to ratepayers since this water could have been sold. Typical water losses for regulated utilities in Indiana range between 5% and 45%. Historically, the Commission has considered 15% as the threshold at which a utility should be taking action to address the problem. Many utilities employ sophisticated water audits in an attempt to identify the sources of water loss and create effective mitigation plans. By doing so, utilities can reduce the need to develop new sources of supply. Some water loss, however, is necessary for activities such as main flushings, maintenance of the treatment plant, and fire suppression. The IDEM considers a system deficient if it has greater than 25% water loss based on a one-year average.⁴

Sources of Supply/Enhanced Reliability

Not every water utility in Indiana has its own source of supply. Based on the Commission's Annual Reports, 15% of the Commission-regulated water utilities share source of supply infrastructure through wholesale purchase agreements. Much of Indiana's water supply comes from underground rock formations called aquifers, which utilities tap into by drilling wells. Reservoirs increase the reliability of water from rivers and play an important role in water treatment by allowing time for particles to settle and providing early-stage natural biological treatment. Water tanks also play an important role for water utilities, by serving as a source of

⁴327 IAC 8-2-8.2(3)(d)

³http://siteresources.worldbank.org/INTWSS/Resources/WSS8fin4.pdf

back-up supply. By helping to maintain sufficient water pressure, water tanks ensure the reliability of potable water and fire suppression systems.

While supply management strategies are consistent among the different regions, securing new sources of supply in southern Indiana is much more difficult. This is because glacial flow stopped around the mid-southern region. The consequences of this glacial movement millennia ago are evident when comparing generalized groundwater availability between northern and southern Indiana, as shown in Map 2. Whereas northern Indiana has an adequate supply of water, southern Indiana is more limited in its supply.

Water Utility Resource Data

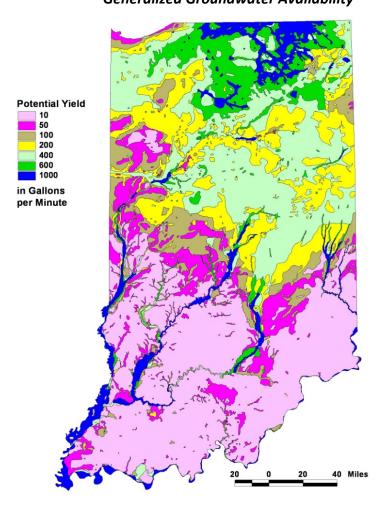
During the 2012 Legislative Session, the General Assembly passed Senate Enrolled Act 132,⁵ which provides a means to aggregate information about water resources within the state.

According to the law, the IURC is to collect and analyze six data collection points from all system operators, both jurisdictional and non-jurisdictional:

- 1. The number of Indiana customers served;
- 2. A description of the utility's service territory;
- 3. Total utility plant in service for the utility's Indiana customers;
- 4. Amount and location of water resources used to provide water service to Indiana customers;
- 5. The availability and location of additional water resources that could be used, if necessary, to provide service to Indiana customers; and

Map 2

Generalized Groundwater Availability



Source: Indiana Department of Natural Resources

⁵P.L. 87-2012

6. The amount of funding received, including the purpose of the funding, from various sources.

Beginning in 2013, the Commission will start reporting to the Regulatory Flexibility Committee on its findings, specifically how financial resources are being used statewide; the need for infrastructure investment; and recommended actions designed to minimize impact on customer rates and charges. To establish the procedures for data collection, the IURC plans to issue a General Administrative Order later this year.

Legal and Policy Foundations

Utilities that provide drinking water and treat wastewater are subject to federal regulations. Water quality regulation falls under the Safe Drinking Water Act (SDWA), passed in 1974 and amended in 1986 and 1996. Wastewater regulation falls under the Federal Water Pollution Control Act or Clean Water Act (CWA), most recently amended in 1987. The U.S. Environmental Protection Agency (U.S. EPA) is the primary federal agency that implements these regulations, while the IDEM is delegated enforcement and has some implementation authority.⁸

Water and Wastewater Quality

Water quality standards are two-fold: 1) health-related (focusing on inorganic and organic chemicals and microorganisms) and 2) aesthetic (focusing on taste, odor, and appearance). These standards are developed by setting a maximum contaminant level and a maximum contaminant level goal, both of which are periodically updated. For example, based on the U.S. EPA's Groundwater Rule, the IDEM now requires increased monitoring to detect viral and bacterial contamination in groundwater sources of drinking water.

The water quality standards are two-fold: health-related, focusing on inorganic and organic chemicals and microorganisms; and aesthetics, focusing on taste, odor, and appearance.

In recent years, Indiana utilities have incurred costs associated with maintaining and improving their systems, and these costs are expected to increase

⁶42 U.S.C. §§ 300f to 300j-26

⁷ 33 U.S.C. §§ 1251-1387

⁸To the extent that wastewater treatment is provided by a septic system or constructed wetland, the Indiana State Department of Health is the jurisdictional agency.

as new rules are approved. For example, to comply with the U.S. EPA's Long Term 2 Enhanced Surface Water Treatment Rule, several utilities have installed ultraviolet disinfection systems at their treatment plants and have sought cost recovery for those investments. Examples of other new or pending U.S. EPA rules are provided below:

U.S. EPA Rule	Scope of Rule	Effective Date
New Clean Water Act Analytical Methods	The U.S. EPA publishes laboratory analytical methods or test procedures that are used by industries and municipalities to analyze the chemical, physical, and biological components of wastewater and other environmental samples that are required by regulations under the authority of the CWA.	Approved in April 2012
Total Coliform Rule	Establishes a maximum contaminant level based on the presence or absence of total coliforms, modifies monitoring requirements including testing for fecal coliforms for E. coli, requires use of a sample siting plan, and also requires sanitary surveys for systems collecting fewer than five samples per month.	Final revisions expected in 2012
Unregulated Contaminant Monitoring Rule 2	The U.S. EPA uses the Unregulated Contaminant Monitoring program to collect data for contaminants suspected to be present in drinking water, but do not have health-based standards set under the SDWA. Every five years the U.S. EPA reviews the list of contaminants, largely based on its Contaminant Candidate List.	Final determination expected by 2013
Perchlorate Rule	The U.S. EPA has determined that perchlorate meets SDWA's criteria for regulating a contaminantthat is, perchlorate may have an adverse effect on the health of persons. Therefore, the U.S. EPA will initiate the process of proposing a national primary drinking water regulation for perchlorate.	Final rule expected by 2015

Several regulated wastewater utilities have invested in their systems as required by consent decrees, due to violations of the CWA. Because infrastructure improvements may be required, customer rates could be impacted. However, before the costs can be passed on to consumers, projects are subject to review by the Indiana Office of Utility Consumer Counselor (OUCC) and IURC approval.

III. Landscape

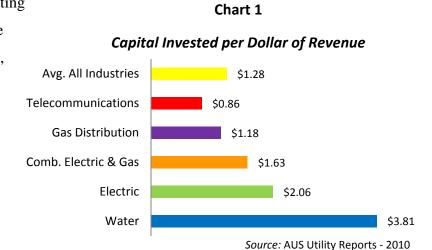
To prosper economically, Indiana communities need safe, reliable, and affordable water and wastewater systems. However, a funding shortfall in Indiana exists due to the need to replace aging infrastructure and its attendant high capital requirements, as much of the United States' drinking water and wastewater infrastructure was built prior to or shortly after World War II.

Infrastructure

A significant portion of our nation's infrastructure has aged and will need full-scale replacement over the next few decades. This is problematic, because the water sector remains

extremely capital intensive, investing more capital per dollar of revenue generated than any other industry, as demonstrated in Chart 1. The need for such large investment is due to high capital costs and relatively low revenues.

Consequently, water utilities are increasing general rates.



Projected Infrastructure Costs

According to the U.S. EPA's "2007 Drinking Water Infrastructure Needs Survey and Assessment" and its "2008 Clean Watersheds Needs Survey," Indiana's water and wastewater infrastructure needs total \$13 billion over the next 20 years. In terms of wastewater needs, Indiana reported one of the highest increases in need among all states since 2004, led by pipe repairs and replacement (up 233%), wastewater treatment (up 224%), and nonpoint source pollution control (up 91%). Additionally, Indiana was one of the states with the highest reported need for combined sewer overflow (CSO) remediation (\$5.0 billion). For drinking water infrastructure, Indiana's projected needs more than doubled since 1995, from \$2.4 billion to \$5.9

⁹Other states with high needs for CSO corrections were: Illinois (\$10.9 billion), New Jersey (\$9.3 billion), Pennsylvania (\$8.7 billion), Ohio (\$7.5 billion), New York (\$6.6 billion), and Indiana (\$5.0 billion). Together, these states comprised 74 percent of the CSO needs reported in the Clean Water Needs Survey.

billion in 2007. As shown in Table 3, 64% of this need can be attributed to transmission and distribution projects.

Table 3

Indiana's Infrastructure Needs for Water and Wastewater

Year 2000 to 2020

	Water			
Millions of January 2007 Dollars	% of Total Needs	Project Type		
\$ 3,814.2	64.16%	Transmission/ Distribution		
\$ 353.8	5.95%	Source		
\$ 1,096.1	18.44%	Treatment		
\$ 648.5	10.91%	Storage		
\$ 31.8	0.53%	Other		
\$5,944.4	100%	Total		

	Wastewater			
Millions of January 2008 Dollars	% of Total Needs	Project Type		
\$ 335	4.71%	Secondary Wastewater Treatment		
\$ 478	6.71%	Advanced Wastewater Treatment		
\$ 21	0.29%	Infiltration/Inflow Correction		
\$ 359	5.04%	Sewer Replacement/Rehabilitation		
\$ 506	7.11%	New Collector Sewers And Appurtenances		
\$ 227	3.19%	New Interceptor Sewers And Appurtenances		
\$ 5,041	70.80%	Combined Sewer Overflow Correction		
\$ 153	2.15%	Stormwater Management		
\$ 7,120	100%	Total		

Source: U.S. EPA "2007 Drinking Water Infrastructure Needs Survey and Assessment"

Source: U.S. EPA "2008 Clean Watersheds Needs Survey"

Funding Programs

Numerous federal and state funding options are available for infrastructure investment. Grants from the U.S. EPA are leveraged in bond markets to generate State Revolving Loan Fund (SRF) proceeds. The Indiana Finance Authority (IFA) then administers these funds through low-interest loans at 20-year terms to investor-owned, municipal, and not-for-profit utilities. Based on the Drinking Water and Clean Water 2011 Annual Reports, the Drinking Water SRF (DWSRF) Loan Program closed 13 loans for Indiana utilities, totaling approximately \$39 million, in state fiscal year 2011. Treatment infrastructure projects accounted for more than 50% of the projects, while transmission and distribution infrastructure projects accounted for about 40%. The Clean Water SRF Loan Program in Indiana closed 21 loans totaling more than \$128 million.

U.S. Department of Agriculture Rural Development Loans and Grants are also available to assist rural areas and towns serving a population of less than 10,000. Extended 40-year terms are

available at or below market interest rates, depending on community demographics. As part of this program, Indiana water and wastewater utilities received approximately \$26 million in loans and \$9 million in grants, of which approximately \$2.1 million in loans were made to Commission-regulated utilities.

Through the U.S. Department of Agriculture Rural Development Loans and Grants, Indiana water and wastewater utilities received approximately \$26 million in loans and \$9 million in grants, of which approximately \$2.1 million in loans were made to Commission-regulated utilities.

Grants for planning and up to 90% of eligible

project costs are another option. These planning and construction grants are available to non-entitlement cities, ¹⁰ towns, or counties through the Community Focus Fund, which is administered through the Indiana Office of Community and Rural Affairs (OCRA). Out of the more than 90 grant issuances made by OCRA during 2011, two Commission-regulated systems were beneficiaries of approximately \$2.6 million of the approximate \$57 million granted by this state agency.

The OCRA also administers federal disaster recovery funds for Indiana. In July 2008, Congress appropriated \$438 million in supplemental funding to Indiana for emergency disaster

Loans and grants are available for utility infrastructure investment through the State Revolving Loan Fund, Rural Development Loans and Grants, and the Community Focus Fund. assistance. Last year, over three-fourths of all funds issued by the OCRA were the result of this federal funding. Additionally, the total disaster relief funding administered by the OCRA in 2011 for water and wastewater infrastructure dropped

considerably. This decline reflects the fact that available funding from the 2008 emergency congressional appropriation is almost gone.

Although the amount of SRF funding to investor-owned and not-for-profit utilities is limited, other options are available. For example, another avenue to obtain low-interest rate loans is private activity bonds, municipal bonds issued to finance facilities for investor-owned or not-for-

¹⁰Non-entitlement cities must go through a state-funding program instead of receiving funds directly from the federal government.

profit water utilities.¹¹ The benefits of reduced financing costs go directly to utility customers, rather than to the shareholders, owners, or parent companies. The federal government sets the overall loan volume cap for each state and then allocates that amount based on a formula.¹²

Under current federal rules applicable to the funding process, investor-owned and not-for-profit utilities are disadvantaged, because they have limited access to low-cost debt. Without access to low-cost debt, costs to serve those customers increase, despite the fact that all customers pay federal income tax to support the funding programs. To gain access to additional

SRF funding, several not-for-profit utilities have converted to water authorities to avoid the volume cap for private activity bonds. The National Association of Regulatory Utility Commissioners and the National Association of Water Companies support federal legislation to lift the ban on wastewater utilities and to

Under the current funding regime, investor-owned and not-for-profit utilities are discriminated against, because they have limited access to low-cost debt.

remove water projects from the volume cap. In 2012, the U.S. Senate passed S. 1813, a surface transportation reauthorization bill, containing such language. However, the U.S. House of Representative's version did not contain such a provision, and the final bill passed by Congress and signed into law did not contain it either.

Pricing and Economics

Nationally, water and wastewater rates are outpacing inflation. Indiana is similarly situated. Due to a number of factors, water and wastewater utilities are experiencing cost increases. The primary drivers include the replacement of aging infrastructure, compliance with U.S. EPA standards (e.g., water quality and wastewater effluent), increases in expenses (e.g., labor, chemical, and power), growing demand, and the relocation of facilities.

Rate Increases

Overall, the number of rate increase requests has declined since 2010. In 2011, nine water utilities were approved for general rate increases averaging 25.84%, and three wastewater utilities were approved for general rate increases averaging 37.82%. The average percent

¹¹Private activity bonds are not available to private wastewater utilities.

¹²IC ch. 4-4-11.5

increase granted by the Commission is often significant, because the requests are related to U.S. EPA requirements, infrastructure improvements, and maintenance projects to uphold the quality of service. However, these percentages can sometimes be misleading, due to average water and wastewater rates regulated by IURC being relatively low at \$25.19 per 5,000 gallons and \$47.75 per 5,000 gallons on average, respectively.

There are areas of the state where customers pay significantly more than in other areas. In fact, of all the industries, water and wastewater utilities have the greatest disparity in rates. This

is because rates are largely dependent on the length of time between rate cases, the condition of the infrastructure, and the number of customers served. For smaller systems, rates tend to be significantly higher due to the costs being spread over a smaller number of households. This is why, when

Of all the industries in the utility sector, utilities within the water and wastewater industries have the greatest disparity in rates.

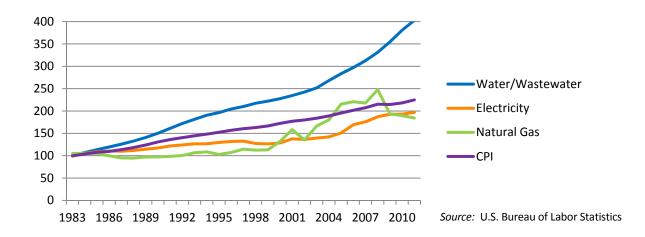
large projects are part of a rate case, the Commission has granted phase-in rates, which help mitigate bill shock.

Chart 2 shows the price index by utility type, including water and wastewater rates. They are rising more rapidly than electricity or natural gas rates and much faster than the overall consumer price index (CPI). For example, from 2002 to 2011 water and wastewater rates rose 5.56% per year, while the CPI only rose 2.43% per year.

Chart 2

Comparison of Utility Prices from 1983 to 2011

Index is set to 100 for 1982-1984



Recovery of Infrastructure Costs within a Rate Case or Tracker

The Commission has several mechanisms within a rate case that allow utilities to recover costs associated with infrastructure projects. Municipal and not-for-profit utilities are allowed to include costs for some types of projects, typically referred to as extensions and replacements, in customer rates. This allows utilities to include future infrastructure projects in rates without relying entirely on debt. In addition, post-in-service allowance for funds used during construction (AFUDC) and deferred depreciation, if approved, allow investor-owned utilities to defer the capital costs and depreciation expense of a project to the utility's next rate case. This practice helps to reduce the utility's earnings erosion.

All utilities can use the Minimum Standard Filing Requirements process that allows a utility to update its rate base for capital investments incurred up until the final hearing. This can be an incentive to invest in capital improvements, as the utility does not need to wait until a later rate case to earn a return on capital investments. Indiana American Water recently took advantage of this option, increasing its test year rate base by \$53,566,185 to include a general rate base cutoff update (\$28,516,680) and an update for a major project (\$25,049,505) identified in the utility's petition, the Warsaw treatment plant. ¹⁴

In 2000, the Indiana General Assembly enacted legislation that created a capital recovery mechanism, called the Distribution System Improvement Charge (DSIC).¹⁵ Indiana was the second state in the nation to enact such a mechanism. The DSIC allows water utilities to recover the costs of improvements to existing distribution systems with a simplified proceeding rather

The Distribution System
Improvement Charge is a useful
mechanism to encourage needed
infrastructure improvements before
having to react to a costly disaster.
As of May 2012, the Commission
approved close to \$138 million in
utility distribution plant placed in
service through the DSIC.

than a full rate case when the investment is made. This results in rate increases that tend to be more gradual over time. The DSIC only applies to water utilities, and the Commission believes that making the DSIC mechanism available to wastewater utilities would encourage investments in necessary infrastructure replacements and upgrades. This useful mechanism avoids the added costs of a rate case and encourages

¹³170 IAC 1-5

¹⁴Cause No. 44022

¹⁵IC ch. 8-1-31

needed infrastructure improvements to be made before having to react to a costly disaster. As of May 2012, the Commission approved close to \$138 million in utility distribution plant placed in service through the DSIC.

Customer Rate Disparity

Due to ongoing concerns about rate differentials between inside and outside-city customers, the General Assembly passed House Enrolled Act 1126 in the 2012 session. This law provides outside-city customers, under certain circumstances, an option other than the court system to determine whether the rates they are being charged are nondiscriminatory, reasonable, and just. In the past, when municipal utilities opted out of the Commission's jurisdiction, citizencustomers (i.e., city residents) of that municipality still had a voice in how the utility was operated when voting for local leaders. Since non-resident customers (i.e., suburban) do not participate in local municipal elections, they had no such voice.

In order to address this problem, the law provides that the lesser of 10% of all customers or 25 customers may file a petition with the Commission requesting review; however, the petition must be filed no more than 14 days after the date on which the new rates are established through an ordinance. Other specific conditions that must be met include:

- A municipal water or wastewater utility must have withdrawn from the IURC's jurisdiction;
- The utility must have customers outside its corporate boundary; and
- Outside-city customers must be charged rates greater than 15% above the rates charged to inside-city customers.

For utilities with rate differentials already in effect by March 31, 2012, the municipality may petition the IURC to grandfather the percentage difference. The request must be

Rather than resorting to the court system, HEA 1126 provides that outside-city customers may petition the Commission to determine whether the rates they are being charged are nondiscriminatory, reasonable, and just.

received by September 30, 2012. In order for the grandfathering provision to apply, the outsidecity rates and charges must be between 15% and 50% higher than the inside rates. In May 2012,

the IURC issued a General Administrative Order outlining the procedure for utilities wishing to be grandfathered in at their existing rates.

Increasing Rates and Declining Demand

The balancing act of encouraging conservation practices and accounting for lost revenue results in a complicated paradox forcing utilities and the Commission to carefully consider the impacts. If not offset by an increase in customer growth, conservation can lead to the utility seeking a rate increase. This is because the utility may earn less revenue, but still incurs fixed costs to maintain the system. If rates increase, this could then lead to further declines in demand, with the cycle repeating itself. Therefore, the Commission is faced with the challenge of ensuring cost recovery for the utility, yet maintaining fair and reasonable rates.

Acquisition and Consolidation

Acquisitions and consolidations can take many forms, but the most prevalent are investor-owned utilities buying smaller investor-owned utilities; investor-owned utilities buying municipal systems; and municipalities buying investor-owned systems. Over the last 10 years, the pace of mergers and acquisitions by investor-owned utilities has slowed significantly as many of the most attractive and available utilities have been acquired; however, transaction proposals are still taking place. When transactions are brought to the IURC for approval, the Commission must ensure customers are not overpaying and that the utility is being assessed at fair value. In cases where a utility's service area is expanded, questions also arise about who should pay and how much. The following sections further detail these issues.

- Privatization -

Recent utility transfers have highlighted several issues of particular concern for the Commission. One issue is determining the fair value of the property to effect a change in ownership. Without accurate accounting records of the municipality's assets, it is difficult to accurately determine the fair value of the assets. Even when the accounting records are accurate, there may be a conflict between Indiana statutes that govern how the price is determined for the assets and what the Commission sets as the fair value. Under IC § 8-1.5-2-6(b), municipal assets may not be sold for less than their full appraised value; however, the Commission must adhere to IC § 8-1-2-6, which disallows contributions in aid of construction (CIAC) in determining the fair

value.¹⁶ In some cases, appraisers do not eliminate utility plant that has been contributed by developers or was funded by a government grant.

Two recent acquisition cases involving Indiana American Water acquiring municipal water utilities (Town of New Whiteland and Town of Riley) illustrate the issue. In the Town of New Whiteland case, the municipality had difficulty documenting assets that were CIAC. Therefore, the Commission ordered the parties to research the origin of its assets in order to identify it. Upon completion of its research, additional CIAC was found, and the Commission issued an order approving a settlement agreement between the OUCC and Indiana American Water. In the Town of Riley case, the appraisers included assets that were funded with CIAC in their appraised values. In accordance with IC § 8-1-2-6, the Commission approved the acquisition but did not allow Indiana American Water to earn a return on the amounts that were identified as CIAC. As a result of this order, the acquisition did not close. Indiana American Water and the Town of Riley have filed a second acquisition case that is pending.

Another issue rests with the determination of whether the customers acquired through the condemnation process should be required to pay more for water than existing customers. Although there is a general lack of consensus on these issues among policymakers, the Indiana General Assembly remedied one aspect of the condemnation matter. Going forward, when a municipality condemns the property of a public utility, all customers bear the costs associated with the condemnation process through their normal rates and charges.¹⁷

- Unique Transfer: City of Indianapolis to Citizens Energy Group -

On July 13, 2011, the IURC approved a settlement agreement that allowed the transfer of the City of Indianapolis's water and wastewater utilities to Citizens Energy Group. The settlement agreement addressed many issues, such as the Commission's authority over water and wastewater rates, adhering to conditions set in the last rate case for Indianapolis Water, accounting issues, adhering to

In February 2012, Citizens
Energy Group announced that
at least \$68 million will be
saved by the end of September
2012, which is two years
ahead of schedule.

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¹⁶CIAC is utility plant that was not funded by the utility, such as plant contributed by a developer or obtained as part of a government grant.

¹⁷IC § 8-1.5-3-8

prior intergovernmental agreements, and the development of conservation and drought response plans. One of the cornerstones of the transfer is the savings produced by consolidating the gas, steam, water, and wastewater utilities. In February 2012, Citizens Energy Group announced that at least \$68 million will be saved by the end of September 2012, two years ahead of schedule. Prior to the transfer of the community's water and wastewater utilities, Citizens committed to achieving an annual savings of \$60 million by 2014. The approximate amount saved is split between savings on pensions/health benefits of \$49 million, the elimination of certain capital projects at \$1 million, and a reduction in operation and maintenance expenses by \$26 million. The cost to achieve those savings was approximately \$8 million.

Regulatory Development

Small water and wastewater utilities are prevalent in Indiana, many of which serve fewer than 300 customers and were constructed by a developer as part of a development. ¹⁹ While not all small utilities are troubled, they are more prone to it because of their size and lack of

Assistance for Small Utilities



The Commission is taking proactive steps to improve the management and operations of small utilities in the water industry, including developing a small utility accounting manual to assist utilities in improving their financial books and records.

management expertise. To determine whether a utility is troubled, the Commission may examine several key factors including: technical, financial, and managerial capacity; the physical condition and capacity of the plant; the utility's compliance with state and federal laws and/or the Commission's orders; and provision of service to customers.²⁰

Many troubled systems fail to maintain and invest in their infrastructure, forgo necessary rate increases and do not retain the expertise necessary to efficiently manage their systems. In fact, the Commission has seen many examples of owners circumventing Indiana statutes by securing a line of credit

(short-term debt) that the utility has insufficient cash flow to repay within a 12-month period.

Affiliated contracts are not filed with the Commission, making it more difficult to detect funds

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¹⁸ www.citizensgas.com/news.aspx?nid=222

¹⁹The Commission can only monitor utilities under its jurisdiction. Once withdrawal occurs, the Commission is no longer able to proactively monitor the progress and development of those systems that are historically most likely to become troubled.

²⁰IC § 8-1-30-3

being siphoned from the utility to an affiliated company. The Commission has also seen systems deteriorate to a point where asset longevity erodes due to lack of maintenance and sewer backups occur in homes. Unfortunately, these issues directly impact the utility's customers. If a utility has continued violations, even after the Commission orders it to remedy the deficiencies, the Commission can order the acquisition of the utility by a new owner or appoint a receiver to operate the utility and work to find a new owner.²¹ On a practical basis, neither is an ideal option.

Strategic Plan

Fortunately, the Commission has addressed many of the worst actors in the last decade and its primary goal is to prevent utilities from becoming troubled in the first place. The Water and Wastewater Division completed a Strategic Plan in December 2011, which includes 11 Action Plans that will assist small utilities with managing costs and improving their financial, managerial, and technical capabilities. The key concepts addressed within the Action Plans include:

- Create an Alternative Regulatory Procedure (ARP) for small water and wastewater utilities.
- Assist small utilities with cost control, including wholesale water purchase arrangements, equipment sharing and cooperative purchasing.
- Focus on water loss and consumer education.
- Develop a Small Utility Accounting Manual to assist utility personnel in the proper recording of financial transactions.
- Require performance measures to be developed and incorporated into the IURC
 Annual Report to provide utility management and the Commission with a tool to
 evaluate utility performance relative to peers.

²¹IC § 8-1-30-5

- Alternative Regulatory Procedure -

On June 6, 2012, the Commission commenced an investigation in Cause No. 44203 into the adoption of an ARP for small water and wastewater utilities. The ARP, as proposed by the Water

and Wastewater Division, would provide an eligible utility with annual rate increases without the need to file a rate petition or incur the associated costs. For small systems serving fewer than 3,000 customers, the proposed ARP would authorize a utility to increase rates on an annual basis for five years after its most recent rate proceeding. The rate increases would be based on an annual cost index, including employment cost, power cost, chemical cost, and consumer cost.

According to prefiled testimony in the case, the Water and Wastewater Division designed the proposed ARP to motivate utilities to improve financial, managerial, and technical capabilities by requiring participants to meet annual requirements focused on improving these capabilities in return for an automatic annual rate increase. The annual requirements consist of

Alternative Regulatory
Procedure Requirements

Asset management plan
Standard operating procedures
Vulnerability assessment and emergency response plan
Written maintenance records
Water system self-evaluation questionnaire
Map of utility system assets
Written financial policies and procedures
Financial budgets

mandatory and elective program elements. Under the proposed ARP, a utility must complete a specified number of elective program items for each of the five years, which were developed based on utility best practices. An evidentiary hearing is scheduled for October 5, 2012.

- Education -

Since many small utilities rely extensively on outside contractors and consultants, one action plan requires the development of a guide to enhance small utilities' ability to hire and manage consultants and outside contractors. Based on the success of earlier workshops, the Commission continues to hold annual workshops on topics such as how to complete the Commission's small utility rate application and annual report; the basics of utility accounting; and tools for planning and asset management. In order to make educational materials more accessible, the Commission also plans to enhance its website by providing documents useful to utilities, such as standard operating procedures, generic maintenance plans and forms, best practice guides, emergency response, conservation, and board training. Early efforts to educate water utilities appear to have

proven to be successful. Based on staff's 2010 Annual Report analysis, overall water loss has improved from 2006 reporting from 26.9% to 12.4%. Also, the IURC has seen an approximate 12.7% increase in the number of utilities implementing an asset management program.

- Regulatory Changes -

The IURC continually strives to ensure its regulations are effectively applied. Over time, the IURC has noticed that some rules and regulations may no longer be needed, while others need to be updated to account for changes in the industry. The IURC has identified two areas where regulatory changes are needed. First, the Commission will study the effectiveness of its existing main extension rules to determine if the provisions that require a three-year revenue allowance should be eliminated. Under this rule, an applicant will receive a free main extension if the sum of three years' revenues is greater than the cost of the main extension. Many utilities have implemented system development charges because they have adopted the notion that growth should pay for growth, and the rule conflicts with this notion. Also, the water industry is already the most capital intensive of all utilities, and this rule requires additional capital.

In addition to the water main extension rules, the IURC will also evaluate rules and regulations regarding the proliferation of small utilities. As previously discussed in the report, small utilities are often the most likely to become troubled. Consequently, the IURC is evaluating the requirements for new utilities. In doing so, the IURC will examine whether adopting more stringent requirements (such as placing greater emphasis on evidence that an existing utility cannot serve the territory) will reduce the proliferation of small utilities.

Modernization and Efficiency

Water Efficiency

Water efficiency programs are being developed by individual utilities and at state and national levels in an effort to manage customer usage. At the state level, the DNR has developed water conservation goals and objectives, as



required by the Great Lakes Compact.²² At the national level, the U.S. EPA has developed the WaterSense® program that labels water efficient appliances, products, services, and practices (e.g., low-flow shower heads, low water washing machines, and low flow irrigation systems). This program is similar to the Energy Star program, which identifies energy efficient appliances. The amount of money saved with these efficient appliances varies based on use and water rates. However, savings can add up. For example, if a household can save 40,000 gallons per year and water rates are \$3.00 per 1,000 gallons, the savings amount to \$120 per year.²³

Water-Energy Nexus

Water efficiency not only protects the supply of an important natural resource, it also conserves energy. Energy efficiency campaigns usually include information on how to save water, and provide efficiency kits containing water-saving devices such as low-flow shower

heads. According to the U.S. EPA, energy costs for water and wastewater utilities can be a third of a municipality's total energy bill. For example, every 1,000 gallons of water delivered by a utility represents 8,350 pounds. A utility delivers nearly 21 tons of water to a household using 5,000 gallons of water per month, using pumps powered by electricity.

The federal government and universities are developing programs to educate water and wastewater utilities on ways to conserve and improve upon their existing energy consumption. By reducing energy

Energy Savings



Water efficiency not only reduces the amount of water consumed, it also saves energy. According to the U.S. EPA, if drinking water and wastewater systems reduce energy use by just 10% through cost-effective investments, collectively they could save approximately \$400 million and 5 billion kWh annually.

consumption, expenses decrease, which lessens the need for rate increases. For example, in September 2012, the U.S. EPA published the "Evaluation of Energy Conservation Measures for Wastewater Treatment Facilities." Purdue University created the Energy Efficiency & Sustainability program, which is a best practices awareness, training, and implementation

²²P.L. 90-419 (90th Congress, S 660) The Great Lakes Compact includes rules and regulations to protect the Great Lakes and the tributary waters of several states and Canadian provinces. Economic development will be balanced with sustainable water use to ensure Great Lakes waters are managed responsibly.

²³Estimated using a family of four and changing toilet (3.5 gallons to 1.6 gallons), washing machine (48 gallons to 28 gallons), and shower head (5 gallons/minute to 2.5 gallons/minute).

assistance program funded through a fee for service work, the U.S. Department of Energy, and the U.S. EPA.

IV. Appendices

Appendix A – Revenues for Jurisdictional Water Utilities

Rank	Utility Name	Operating Revenues	% of Total Revenues
1	Indiana-American Water Company, Inc.	\$181,344,517	33.77%
2	Citizens Water	143,230,900	26.67%
3	Fort Wayne Municipal Water Utility	31,329,409	5.83%
4	Evansville Municipal Water Works Dept.	18,503,094	3.45%
5	South Bend Municipal Water	14,128,867	2.63%
6	Bloomington Municipal Water	10,650,808	1.98%
7	Hammond Municipal Water Works	9,007,381	1.68%
8	Elkhart Municipal Water Works	7,975,511	1.49%
9	Anderson Municipal Water Works	7,493,233	1.40%
10	Lafayette Municipal Water Works	7,359,490	1.37%
11	Mishawaka Municipal Utilities - Water	7,240,447	1.35%
12	Michigan City Municipal Water Works	6,394,802	1.19%
13	Utility Center, Inc.	6,272,423	1.17%
14	East Chicago Municipal Water Dept.	5,687,507	1.06%
15	Schererville Municipal Water Works	5,164,565	0.96%
16	Columbus Municipal Water Utility	4,672,433	0.87%
17	Marion Municipal Water Works	4,438,095	0.83%
18	Stucker Fork Conservancy District	3,338,160	0.62%
19	Jackson County Water Utility, Inc.	2,976,986	0.55%
20	Chandler Municipal Water Works	2,930,155	0.55%
21	Brown County Water Utility, Inc.	2,900,346	0.54%
22	Silver Creek Water Corporation	2,489,789	0.46%
23	New Castle Municipal Water Works	2,455,126	0.46%
24	Auburn Municipal Water Utility	2,140,683	0.40%
25	Eastern Heights Utilities, Inc.	2,076,603	0.39%
26	North Lawrence Water Authority	2,044,107	0.38%
27	Edwardsville Water Corporation	1,916,686	0.36%
28	Morgan County Rural Water Corporation	1,837,989	0.34%
29	Princeton Municipal Water	1,812,318	0.34%
30	Mishawaka-Clay Municipal Utilities - Water	1,748,717	0.33%
31	Martinsville Municipal Water Utility	1,730,457	0.32%
32	Eastern Bartholomew Water Corporation	1,654,080	0.31%
33	German Township Water District, Inc.	1,640,169	0.31%
34	East Lawrence Water Authority	1,584,002	0.29%
35	Boonville Municipal Water Works	1,579,428	0.29%

Rank	Utility Name	Operating Revenues	% of Total Revenues
36	Ellettsville Municipal Water Utility	1,460,042	0.27%
37	Columbia City Municipal Water Utility	1,434,548	0.27%
38	Southwestern Bartholomew Water Corporation	1,403,850	0.26%
39	South Harrison Water Corporation	1,396,586	0.26%
40	Pike-Gibson Water, Inc.	1,349,890	0.25%
41	Gibson Water, Inc.	1,233,586	0.23%
42	Tri-Township Water Corporation	1,024,015	0.19%
43	Corydon Municipal Water Works	1,005,664	0.19%
44	Twin Lakes Utilities, Inc.	911,972	0.17%
45	Floyds Knobs Water Company, Inc.	898,591	0.17%
46	Southern Monroe Water Corporation	879,154	0.16%
47	Charlestown Municipal Water Dept.	807,389	0.15%
48	North Dearborn Water Corporation	801,173	0.15%
49	Fortville Municipal Water Works	744,138	0.14%
50	Marysville Otisco Nabb Water Corporation	736,472	0.14%
51	Valparaiso Lakes Area Conservancy District	690,954	0.13%
52	Petersburg Municipal Water Works	677,595	0.13%
53	LMS Townships Conservancy District	610,941	0.11%
54	Van Buren Water, Inc.	579,382	0.11%
55	Town of Cedar Lake Utilities	571,986	0.11%
56	Sullivan-Vigo Rural Water Corp.	557,573	0.10%
57	Washington Township Water Corporation of Monroe County	524,007	0.10%
58	B & B Water Project, Inc.	487,122	0.09%
59	Cataract Lake Water Corporation	470,339	0.09%
60	Posey Township Water Corporation	469,681	0.09%
61	Clinton Township Water Company	467,163	0.09%
62	Indiana Water Service, Inc.	441,696	0.08%
63	Tri-County Conservancy District	390,621	0.07%
64	Riverside Water Company, Inc.	355,118	0.07%
65	Knightstown Municipal Water Utility	331,886	0.06%
66	St. Anthony Water Utilities, Inc.	309,069	0.06%
67	Everton Water Corporation	287,793	0.05%
68	Kingsford Heights Municipal Water Utility	269,557	0.05%
69	Battle Ground Conservancy District	257,229	0.05%
70	Ogden Dunes Municipal Water	247,922	0.05%
71	Darlington Waterworks Company	231,619	0.04%
72	Painted Hills Utilities Corporation	231,548	0.04%
73	Consumers Indiana Water Company, Inc.	225,491	0.04%
74	Mapleturn Utilities, Inc.	200,861	0.04%
75	Pioneer Water, LLC	177,771	0.03%

Rank	Utility Name	Operating Revenues	% of Total Revenues
76	South 43 Water Association, Inc.	174,486	0.03%
77	Kingsbury Utility Corporation	136,964	0.03%
78	Oak Park Conservancy District	121,616	0.02%
79	Rhorer Harrel & Schacht Roads Water Corp	103,488	0.02%
80	Waldron Conservancy District	82,907	0.02%
81	Hillsdale Water Corporation	77,667	0.01%
82	Water Service Company of Indiana, Inc.	73,367	0.01%
83	Apple Valley Utilities, Inc.	64,032	0.01%
84	Wedgewood Park Water Co., Inc.	63,564	0.01%
85	Pleasantview Utilities, Inc.	59,195	0.01%
86	American Suburban Utilities, Inc.	39,245	0.01%
87	J.B. Waterworks, Inc.	31,662	0.01%
88	Wastewater One d/b/a River's Edge Utility, Inc.	16,754	<0.01%
89	Wells Homeowners Association, Inc.	12,069	<0.01%
90	Shady Side Drive Water Corporation	11,458	<0.01%
91	Hessen Utilities, Inc.	7,275	<0.01%
92	Bluffs Basin Utility Company, LLC	6,319	<0.01%
	Total Revenue	\$36,983,345	100.00%

^{*}Year ending December 31, 2010. Several utilities did not complete an Annual Report, so the total number does not equal the number of utilities under IURC jurisdiction.

Appendix B – Revenues for Jurisdictional Wastewater Utilities

Rank	Utility Name	Operating Revenues	% of Total Revenue
1	Sanitary District of Hammond	\$23,084,159	43.23%
2	Hamilton Southeastern Utilities, Inc.	9,435,927	17.67%
3	Utility Center, Inc.	7,344,233	13.75%
4	Aqua Indiana South Haven	3,484,603	6.53%
5	American Suburban Utilities, Inc.	2,630,057	4.93%
6	Twin Lakes Utilities, Inc.	1,617,971	3.03%
7	Eastern Richland Sewer Corporation	1,046,363	1.96%
8	L.M.H. Utilities Corporation	797,626	1.49%
9	Driftwood Utilities, Inc.	603,472	1.13%
10	Wymberley Sanitary Works, Inc.	517,640	0.97%
11	Indiana-American Water Company, Inc.	356,852	0.67%
12	Mapleturn Utilities, Inc.	318,848	0.60%
13	Kingsbury Utility Corporation	317,394	0.59%
14	Consumers Indiana Water Company, Inc.	271,510	0.51%
15	Doe Creek Sewer Utility, Inc.	234,317	0.44%
16	Apple Valley Utilities, Inc.	221,119	0.41%
17	Northern Richland Sewer Corporation	141,346	0.26%
18	Eastern Hendricks County Utility, Inc.	139,416	0.26%
19	Water Service Company of Indiana, Inc.	133,604	0.25%
20	Wildwood Shores Utility Corp., Inc.	115,957	0.22%
21	Old State Utility Corporation	104,021	0.19%
22	Sani Tech, Inc.	98,469	0.18%
23	Southeastern Utilities, Inc.	69,798	0.13%
24	Centurian Corporation	65,400	0.12%
25	Pleasantview Utilities, Inc.	50,601	0.09%
26	Heir Industries, Inc.	44,482	0.08%
27	JLB Development, Inc.	41,830	0.08%
28	Hillview Estates Subdivision, Inc.	29,451	0.06%
29	Galena Wastewater Treatment Plant	27,147	0.05%
30	Wastewater One d/b/a River's Edge Utility, Inc.	12,257	0.02%
31	Bluffs Basin Utility Company, LLC	11,482	0.02%
32	Brushy Hollow Utilities, Inc.	10,738	0.02%
33	Anderson Lakes Estates Homeowners Association, Inc.	8,216	0.02%
34	Lakeland Lagoon Corp.	7,144	0.01%
35	Hessen Utilities, Inc.	4,850	0.01%
36	Webster Development, LLC	1,165	<0.01%
37	Aldrich Environmental, LLC	600	<0.01%
	Total Revenue	\$ 3,400,065	100.00%

^{*}Year ending December 31, 2010. Several utilities did not complete an Annual Report, so the total number does not equal the number of utilities under IURC jurisdiction.

Appendix C – Withdrawn Water Utilities

	Burns City
dvance B	
	Burnt Pines Water Association
kron Bi	Butler
lbany Ca	Cambridge City
	Camden
lexandria Ca	Campbellsburg
lfordsville Ca	Canaan Water Utility
mbia Ca	Cannelton
ndrews Ca	Carbon
nd-Tro, Inc.	Carlisle
ngola Ca	Carmel
rcadia Ca	Carthage
rgos Ca	Cayuga
	Center Point
·	Centerville
ttica Cl	Chalmers
villa	Chesterfield
ainbridge Cl	Chesterton
	Chrisney
-	Churubusco
ean Blossom - Patricksburg Water Corp. Ci	Cicero
	Clarks Hill
erne Cl	Clay City
	Claypool
·	Clinton
icknell	Cloverdale
ig Walnut Company, Inc.	Colfax
	Connersville
loomingdale Co	Converse
	Covington
	Crane Crane
ourbon Ci	Crawford County Water Company
	Cromwell
	Crothersville
	Crown Point
	Culver
	Cumberland
	Cynthiana
	pale
	Daleville
0	Dana
	Danville

Utility Name		
Daviess County Rural Water System, Inc.	Francesville	
Dayton	Francisco	
Decatur	Frankfort	
Decatur County Rural Water Corporation	Franklin County Water Association, Inc.	
Decker	Frankton	
Delphi	Freelandville Water Association	
Dillsboro	Fremont	
Dublin	Galveston	
Dubois Water Utilities, Inc.	Garrett	
Duff Water Corporation	Gas City	
Dugger	Gaston	
Dune Acres	Gem Water, Inc.	
Dunkirk	Geneva	
Dupont Water Company, Inc.	Gentryville	
Dyer	Georgetown	
Earl Park	Georgetown, IL	
East Fork Water, Inc.	Glenwood	
East Monroe Water Corporation	Goodland	
East Washington Rural Water Corporation	Goshen	
Eaton	Gosport	
Edgewood	Grabill	
Edinburgh	Grandview	
Edwardsport	Grantsburg Rural Water, Inc.	
Elberfeld	Greencastle	
Elizabeth	Greendale	
Ellis Water Company	Greenfield	
Elnora	Greensburg	
Elrod Water Company, Inc.	Greentown	
Elwood	Greenville	
English	Griffith	
Etna Green	Hagerstown	
Fairmount	Hamilton	
Fairview Park	Hamlet	
Farmersburg	Hanover	
Farmland	Hartford City	
Fayette Township Water Association, Inc.	Haubstadt	
Ferdinand	Hayden Water Association, Inc.	
Finch Newton Water, Inc.	Haysville Water Utilities, Inc.	
Flora	Hazleton	
Fort Branch	Hebron	
Fountain City	Highland	
Fowler	Hill Water Corp.	

Utility Name	
Hillsboro	Lewisville
Hogan Water Corp.	Liberty
Holland	Ligonier
Holton Community Water Corp.	Linden
Hope	Linton
Hudson	Logansport
Huntertown	Long Beach
Huntingburg	Loogootee
Huntington	Lowell
Hymera	Lyford Waterworks, Inc.
Ingalls	Lynn
Ireland Utilities, Inc.	Lynnville
Jamestown	Lyons
Jasonville	Madison
Jasper	Markle
Jennings Water, Inc.	Marshall
Jonesboro	Mecca
Kendallville	Medaryville
Kent Water Company, Inc.	Medora
Kentland	Mentone
Kewanna	Merom
Kingman	Middlebury
Kirklin	Middletown
Knightsville	Milan
Knox	Milford
Knox County Water, Inc.	Millersburg
Kouts	Milltown
LaCrosse	Milton
Ladoga	Mitchell
LaFontaine	Monon
LaGrange	Monroe
Lagro	Monroe City
Lake Station	Monroeville
Lakeville	Montezuma
Lanesville	Montgomery
Lapel	Monticello
LaPorte	Montpelier
Laurel	Morgantown
Lawrence	Morocco
Lawrenceburg	Morristown
Leavenworth	Mount Summit
Lebanon	Mount Vernon

Utility Name	
Mulberry	Paxton Water Corporation
Munster	Pendleton
Napoleon Community Water	Pennville
Nappanee	Perry Water System, Inc.
Nashville	Perrysville
New Carlisle	Peru
New Chicago	Pierceton
New Harmony	Pittsboro
New Haven	Plainfield
New Market	Pleasantville Water Co.
New Pekin	Plymouth
New Richmond	Portland
New Whiteland	Poseyville
Newberry	Prince's Lakes
Newport	Ramsey Water
North Brown Water	Redkey
North Judson	Reelsville Water Authority
North Liberty	Remington
North Manchester	Rensselaer
North Salem	REO Water Corp.
North Vernon	Reynolds
Oakland City	Ridgeville
Oaktown	Riley
Odon	Rising Sun
Oldenburg	Roachdale
Oolitic	Roann
Orestes	Roanoke
Orland	Rochester
Orleans	Rockport
Osgood	Rockville
Ossian	Rosedale
Otterbein	Rossville
Otwell Water Corporation	Royal Center
Owensville	Rural Membership Water Corporation
Oxford	Rushville
Palmyra	Russellville
Paoli	Russiaville
Paragon	Rykers Ridge Water Co.
Parker City	Salem
Patoka	Sandborn
Patoka Water Company, Inc.	Santa Claus
Patriot	Santa La Hill, Inc.

Utility Name				
Schneider	Valparaiso			
Scottsburg	Van Buren			
Seelyville	Veedersburg			
Sellersburg	Vernon			
Sharpsville	Versailles			
Shelburn	Vevay			
Sheridan	Vincennes			
Shipshewana	Wakarusa			
Shirley	Walkerton			
Shoals	Walton			
Silver Lake	Wanatah			
Slygo Water Corp.	Warren			
South Whitley	Washington			
Southern Madison Utilities, LLC	Washington Township Water Corp.			
Speedway	Waterloo			
Spiceland	Watson Rural Water Co., Inc.			
Spurgeon	Waveland			
St. Bernice Water	Waynetown			
St. Henry Water Corporation	West College Corner			
St. Joe	West Lebanon			
St. John	West Terre Haute			
St. Jude Village Water Corp.	Westfield			
St. Paul	Westport			
Staunton	Westville			
Sunman	Westwood Water Co., Inc.			
Swayzee	Wheatland			
Switz City	Whiteland			
Syracuse	Whitestown			
Tell City	Whiting			
Tennyson	Wilfred Water Corporation			
Thorntown	Williamsport			
Tipton	Winamac			
Topeka	Windfall			
Trafalgar	Wingate			
Troy	Winslow			
Troy Township Water Association, Inc.	Wolcott			
Union City	Wolcottville			
Universal	Woodburn			
Upland	Yankeetown Water Authority			
Valley Rural	Yorktown			

Appendix D – Withdrawn Wastewater Utilities

Utility Name					
Canyonlands Homeowners, Inc.	Henryville Membership Sanitation				
Deerwood Environmental, Inc.	Lakeview Estates of Wabash County, Inc.				
East Shore Corp.	M.E.K.A. Inc.				
Evanston Utility, Inc.	Mt. Pleasant Utilities, LLC				
Forest Ridge Utilities, Inc.	Shorewood Forest Utilities, Inc.				
Gem Utilities, Inc.	Tamerix Lake Wastewater Treatment Plant				
Golfview Partners, LLC	Thieneman Environmental, LLC				
Grandview Lot Owners Association, Inc.	Thrall's Station, Inc.				
Hardin Monroe, Inc.	West Boggs Sewer District, Inc.				
Harrison Lake Town Meeting, Inc.	Western Hancock Utilities, LLC				

Appendix E – Withdrawn Combined Water & Wastewater Utilities

Utility Name				
C & M Utility, Inc. Shady Hills Utility Company				
Hoosier Land Vistas St. Meinrad Utilities				
Salt Creek Services, Inc. Valley Rural Water & Sewer Utility				

Appendix F – Residential Water Bill Survey (January 1, 2012 Billing)

Comparison by Gallon Usage

Utility	Ownership	Last Rate Case	Effective Date	5,000 gal.	7,500 gal.
American Suburban	IOU	38936	6/21/90	\$51.78	\$51.78
Anderson Municipal	MUN	42194	12/20/06	\$17.14	\$22.59
Apple Valley	IOU	39889	3/8/95	\$21.02	\$21.02
Auburn*	MUN	41414	9/22/99	\$22.31	\$28.54
Aurora, inside city	MUN	42786	9/14/05	\$15.50	\$22.63
Aurora, outside city	MUN	42786	9/14/05	\$18.50	\$27.00
B&B Water Project	NFP	39107	5/22/91	\$29.29	\$42.14
Battleground	C.D.	43088	3/7/07	\$24.70	\$32.10
Bloomington, inside city*	MUN	43939	3/9/11	\$22.09	\$29.87
Bloomington, outside city*	MUN	43939	3/9/11	\$23.19	\$30.97
Bluffs Basin	IOU	42188	3/5/03	\$28.15	\$38.15
Boonville*	MUN	43477	4/8/09	\$35.48	\$51.38
Brown County	NFP	43203	10/17/07	\$55.83	\$82.59
Cataract Lake Water Corporation	NFP	43742-U	12/22/09	\$36.78	\$51.40
Cedar Lake	MUN	43655	4/29/09	\$43.55	\$62.33
Cedar Lake - Robins Nest	MUN	No Order		\$26.31	\$37.44
Cedar Lake - Robins Nest - Krystal Oak		No Order		\$35.50	\$53.00
Chandler, Town*	MUN	43658	1/6/10	\$28.72	\$37.67
Charlestown	MUN	42878	8/16/06	\$18.30	\$27.45
Citizens Waterworks	MUN	43645	6/30/09	\$27.80	\$36.89
Clinton Township	NFP	43696	10/14/09	\$38.59	\$49.15
Columbia City*	MUN	42983	10/11/06	\$23.70	\$32.08
Columbus*	MUN	39425	3/29/94	\$10.69	\$14.72
Consumers Indiana, Lake County Indiana	IOU	43962	7/27/11	\$34.99	\$47.99
Cordry Sweetwater - outside district	C.D.		5/20/71	\$18.65	\$22.99
Corydon*	MUN	40591	4/9/97	\$16.90	\$23.75
Country Acres	NFP	36972	12/8/82	\$6.00	\$6.00
Damon Run**	C.D.	43966	10/19/11	\$53.50	\$65.52
Darlington - Aqua	IOU	43609	6/10/09	\$49.82	\$66.77
East Chicago	MUN	42680	11/8/06	\$12.05	\$15.03

Utility	Ownership	Last Rate Case	Effective Date	5,000 gal.	7,500 gal.
East Lawrence Water	NFP	43630	9/16/09	\$43.60	\$60.95
Eastern Bartholomew	NFP	43392	9/24/08	\$23.21	\$33.39
Eastern Heights	NFP	42839	4/20/06	\$21.59	\$30.02
Edwardsville Water	NFP	43869	3/8/11	\$38.19	\$54.07
Elkhart	MUN	43191	7/11/07	\$12.84	\$16.13
Ellettsville, outside town*	MUN	43582-U	6/3/09	\$28.74	\$41.69
Ellettsville, inside*	MUN	43582-U	6/3/09	\$23.36	\$33.64
Evansville, Inside City*	MUN	43190	9/26/07	\$12.65	\$17.03
Evansville, Outside City*	MUN	43190	9/26/07	\$14.03	\$18.41
Everton	NFP	43312	12/5/07	\$33.70	\$47.04
Floyds Knobs	NFP	36297	4/1/81	\$28.30	\$40.35
Fort Wayne, inside City	MUN	42979	8/23/06	\$9.96	\$14.94
Fort Wayne, outside City	MUN	42979	8/23/06	\$11.43	\$17.14
Fortville	MUN	43551-U	10/7/09	\$27.15	\$37.42
German Township	NFP	42282	3/26/03	\$22.10	\$32.55
German Township Stewartsville	NFP	42282	3/26/03	\$22.10	\$32.55
German Township, Marrs Division	NFP	42282	3/26/03	\$50.46	\$74.31
Gibson Water	NFP	43918	11/4/10	\$29.93	\$44.46
Hammond	MUN	37653	6/5/85	\$2.20	\$3.28
Hessen Utilities	IOU	30805	7/30/65	\$6.00	\$6.00
Hillsdale Water	NFP	43970-U	9/7/11	\$31.60	\$45.63
Indiana American Water	IOU				
Burns Harbor, Chesterton, Porter, South Haven*	IOU	44022	6/6/12	\$33.61	\$44.86
Crawfordsville*	IOU	44022	6/6/12	\$41.15	\$52.39
Gary *	IOU	44022	6/6/12	\$37.73	\$48.98
Hobart*	IOU	44022	6/6/12	\$37.73	\$48.98
Johnson County - Greenwood, So. Indiana (Jeffersonville, New Albany), Newburgh*	IOU	44022	6/6/12	\$41.15	\$52.39
Kokomo*	IOU	44022	6/6/12	\$41.15	\$52.39
Merrillville*	IOU	44022	6/6/12	\$37.73	\$48.98
Mooresville	IOU	44022	6/6/12	\$37.45	\$46.85
Muncie, Johnson Co Franklin, Shelbyville, Clarksville	IOU	44022	6/6/12	\$37.03	\$48.27
Noblesville*	IOU	44022	6/6/12	\$41.15	\$52.39

Portage* IOU 44022 6/6/12 \$37.73 \$48.98 Richmond, Wabash Valley* IOU 44022 6/6/12 \$37.03 \$48.27 Seymour, Somerset, Summitville IOU 44022 6/6/12 \$37.03 \$48.27 Wabash* IOU 44022 6/6/12 \$37.03 \$48.27 Warsaw* IOU 44022 6/6/12 \$37.45 \$46.85 Winchester IOU 44022 6/6/12 \$37.45 \$46.85 Sullivan IOU 44022 6/6/12 \$41.15 \$52.39 Wabash Valley (Terre Haute & Farmersburg) IOU 44022 6/6/12 \$41.15 \$52.39 Waveland IOU 44022 6/6/12 \$41.15 \$52.39 Indiana Water Service, Inc. IOU 41710-U 3/21/01 \$17.44 \$24.64 J.B. Waterworks IOU 39231-U 5/1/92 \$18.26 \$26.56 Jackson County NFP 43289 1/4/08 \$42.83 \$63.48	Utility	Ownership	Last Rate Case	Effective Date	5,000 gal.	7,500 gal.
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Mapleturn NFP 37039 9/28/03 \$22.15 \$24.05 Marion* MUN 42720 3/30/05 \$27.02 \$33.63 Martinsville* MUN 42676 8/16/06 \$26.74 \$33.84 Martinsville, Morgan-Monroe Forest* MUN 42676 1/5/05 \$31.87 \$38.97 Marysville-Otisco-Nabb NFP 42476-U 1/14/04 \$36.60 \$48.75 Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20 <td>LMS Townships</td> <td>C.D.</td> <td>40991-U</td> <td>7/15/99</td> <td>\$18.94</td> <td>\$26.87</td>	LMS Townships	C.D.	40991-U	7/15/99	\$18.94	\$26.87
Marion* MUN 42720 3/30/05 \$27.02 \$33.63 Martinsville* MUN 42676 8/16/06 \$26.74 \$33.84 Martinsville, Morgan-Monroe Forest* MUN 42676 1/5/05 \$31.87 \$38.97 Marysville-Otisco-Nabb NFP 42476-U 1/14/04 \$36.60 \$48.75 Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Libertytree Campground	NFP	41662	12/22/04	\$8.58	\$8.58
Martinsville* MUN 42676 8/16/06 \$26.74 \$33.84 Martinsville, Morgan-Monroe Forest* MUN 42676 1/5/05 \$31.87 \$38.97 Marysville-Otisco-Nabb NFP 42476-U 1/14/04 \$36.60 \$48.75 Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Mapleturn	NFP	37039	9/28/03	\$22.15	\$24.05
Martinsville, Morgan-Monroe Forest* MUN 42676 1/5/05 \$31.87 \$38.97 Marysville-Otisco-Nabb NFP 42476-U 1/14/04 \$36.60 \$48.75 Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Marion*	MUN	42720	3/30/05	\$27.02	\$33.63
Marysville-Otisco-Nabb NFP 42476-U 1/14/04 \$36.60 \$48.75 Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Martinsville*	MUN	42676	8/16/06	\$26.74	\$33.84
Michigan City* MUN 42517 3/31/04 \$20.92 \$27.64 Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Martinsville, Morgan-Monroe Forest*	MUN	42676	1/5/05	\$31.87	\$38.97
Mishawaka, City* MUN 41395 6/14/00 \$15.14 \$21.05 Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Marysville-Otisco-Nabb	NFP	42476-U	1/14/04	\$36.60	\$48.75
Mishawaka, Clay MUN 41395 6/14/00 \$30.12 \$30.16 Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Michigan City*	MUN	42517	3/31/04	\$20.92	\$27.64
Morgan County Rural NFP 42993 5/14/08 \$52.53 \$78.28 Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Mishawaka, City*	MUN	41395	6/14/00	\$15.14	\$21.05
Morgan County Rural, Western Exp. NFP 42993 5/14/08 \$60.92 \$85.99 New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Mishawaka, Clay	MUN	41395	6/14/00	\$30.12	\$30.16
New Castle MUN 42984 9/13/06 \$27.14 \$34.33 North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Morgan County Rural	NFP	42993	5/14/08	\$52.53	\$78.28
North Dearborn NFP 43736 10/1/09 \$34.25 \$55.20	Morgan County Rural, Western Exp.	NFP	42993	5/14/08	\$60.92	\$85.99
	New Castle	MUN	42984	9/13/06	\$27.14	\$34.33
North Lawrence NFP 43716 8/11/10 \$50.66 \$67.26	North Dearborn	NFP	43736	10/1/09	\$34.25	\$55.20
	North Lawrence	NFP	43716	8/11/10	\$50.66	\$67.26

Utility	Ownership	Last Rate Case	Effective Date	5,000 gal.	7,500 gal.
Ogden Dunes	MUN	43295	1/16/08	\$38.51	\$51.19
Painted Hills	IOU	37017	10/17/83	\$27.75	\$37.00
Pence	NFP			\$25.00	\$25.00
Petersburg	MUN	43757	5/11/10	\$23.35	\$32.58
Pike-Gibson	NFP	43528	1/21/09	\$34.23	\$50.86
Pioneer	IOU	41089	8/26/98	\$35.00	\$40.00
Wells Homeowners Association	NFP	40056	4/12/95	\$30.00	\$30.00
Pleasant View	IOU	41591-U	4/12/00	\$33.30	\$49.95
Posey Township	NFP	43875	12/7/10	\$38.63	\$52.88
Princeton	MUN	43652	3/3/10	\$35.98	\$50.71
Rhorer, Harrell & Schacht	NFP	43934-U	3/2/11	\$33.93	\$48.62
Riverside	IOU	42122	2/19/03	\$18.87	\$25.05
Schererville*	MUN	42872	12/14/05	\$21.16	\$29.71
Shady Side Drive	NFP	38869	7/18/90	\$21.96	\$32.76
Silver Creek	NFP	37734	6/5/85	\$25.10	\$37.65
South 43	NFP	43909	10/27/10	\$25.33	\$37.55
South Bend, inside*	MUN	43979	11/9/11	\$15.34	\$20.32
South Harrison	NFP	43850	9/8/10	\$44.14	\$62.52
Southern Monroe	NFP	43952	5/11/11	\$32.15	\$46.40
St. Anthony	NFP	39193	10/19/91	\$38.50	\$56.08
Stucker Fork Conservancy Dist. (City of Austin customers)	C.D.	43780	4/14/10	\$28.59	\$37.89
Stucker Fork Conservancy Dist.	C.D.	43780	4/14/10	\$24.40	\$33.70
Sugar Creek Utility Company	IOU	43579	9/8/10	\$18.36	\$18.36
Southwestern Bartholomew	NFP	43329	3/5/08	\$39.36	\$58.04
Sullivan-Vigo	NFP	42599	6/23/04	\$67.20	\$97.98
Tri-County	CD	Conference Minutes	6/11/08	\$35.40	\$46.03
Tri-Township	NFP	40327	4/17/96	\$19.85	\$27.61
Twin Lakes	IOU	43128	1/16/08	\$21.85	\$28.78
Town of Cedar Lake	MUN	43655	4/29/09	\$43.55	\$62.33
Utility Center - Aqua	IOU	43874	4/13/11	\$35.09	\$49.23
Valparaiso Lakes*	C.D.	38556	12/22/84	\$37.69	\$48.35

Utility	Ownership	Last Rate Case	Effective Date	5,000 gal.	7,500 gal.
Van Bibber Lake	C.D.	42549-U	11/18/04	\$23.40	\$23.40
Van Buren Water	NFP	43948	3/2/11	\$28.05	\$40.55
Waldron	C.D.	42376	2/11/04	\$25.98	\$37.93
Washington Twp. Of Monroe	NFP	42672	7/28/04	\$35.51	\$48.46
Wastewater One, LLC d/b/a River's Edge	IOU	42234	2/5/03	\$22.55	\$33.83
Water Service Co. of IN	IOU	42969	8/30/06	\$22.24	\$32.49
Wedgewood Park	IOU	42769	3/7/07	\$23.26	\$31.18

Note:

This bill analysis should be construed as an informative guideline as a snapshot in time. Do not use this analysis to draw conclusions about performance since many factors (such as size, resources and customer density, etc.) affect the bill calculations.

- * Fire protection surcharge for 5/8 inch meter included
- ** Fire protection charge for a 5/8 inch meter included in base charge
- *** The location of these customers determines whether the fire protection surcharge applies.

Appendix F – Residential Wastewater Bill Survey (January 1, 2012 Billing)

Comparison by Gallon Usage (5,000 gallons or 668.4028 cu. ft.)

Ownership Key

MUN- Municipally Owned Utility
IOU – Investor-Owned Utility
NFP – Not-for-Profit Utility
CD – Conservancy District

Utility	Ownership	Last Rate Case	Effective Date	Average Monthly Bill
Aldrich Environmental, LLC	IOU	42805	9/28/05	\$50.00
American Suburban Utilities, Inc.	IOU	41254	4/14/99	\$47.50
Anderson Lake Estates Homeowners Association Inc.	NFP	42478	7/7/04	\$42.35
Apple Valley Utilities, Inc.	IOU	40191	8/2/95	\$48.58
Bluffs Basin Utility Company, LLC	IOU	42188	3/5/03	\$46.88
Brushy Hollow Utilities, Inc .	IOU	41285	1/27/99	\$27.10
Centurian Corporation	IOU	40157	8/30/95	\$65.00
Creekside Utilities, Inc.	NFP	43853	10/7/11	\$41.00
Consumers Indiana Water Company	IOU	42190	6/19/02	\$45.07
Country Acres Property Owners Association	NFP	36972	12/16/82	\$6.00
CWA Authority, Inc.	NFP	43936	7/13/11	\$25.59
Damon Run Conservancy District	CD	43966	10/19/11	\$38.10
Devon Woods Utilities, Inc.	IOU	40234-U	1/31/96	\$41.88
Doe Creek Sewer Utility	IOU	43530-U	6/10/09	\$48.00
Driftwood Utilities, Inc.	NFP	43790-U	6/3/10	\$38.10
Eastern Hendricks County Utility, Inc.	IOU	43795-U	4/30/10	\$42.89
Eastern Richland Sewer Corporation	NFP	37900	10/4/85	\$42.46
Eastern Richland Sewer Corporation (Northern District)	NFP	43791-U	7/28/10	\$48.53
Hamilton Southeastern Utilities, Inc.	IOU	43761	8/18/10	\$34.63
Harbortown Sanitary Sewage Corporation	IOU	35455	6/3/87	\$18.00
Heir Industries, Inc	IOU	43949	7/27/11	\$70.11
Hessen Utilities, Inc.	IOU	30805	7/30/65	\$4.00
Hillview Estates Subdivision Utilities, Inc.	IOU	38737-U	5/31/89	\$30.00
Howard County Utilities, Inc.	IOU	43294	1/23/08	\$45.38
Indiana American Water Company-Muncie & Somerset	IOU	43680	4/30/10	\$61.29
JLB Development, Inc.	IOU	39868	4/28/95	\$65.53

Utility	Ownership	Last Rate Case	Effective Date	Average Monthly Bill
Kingsbury Utility Corporation	IOU	43296-U	1/16/08	\$33.15
Lakeland Lagoon Corp.	NFP	41597-U	2/2/00	\$77.22
LMH Utilities Corporation	IOU	43431	1/21/09	\$46.59
Mapleturn Utilities, Inc.	NFP	43777-U	3/24/10	\$46.45
Old State Utility Corporation	IOU	43627	5/11/10	\$80.14
Pleasantview Utilities, Inc.	IOU	43313-U	4/23/08	\$24.38
Sani Tech, Inc.	IOU	43793-U	9/8/10	\$76.00
Sanitary District of Hammond	NFP	43307	1/4/08	\$13.38
South County Utilities, Inc.	IOU	43799-U	6/16/10	\$64.85
South Haven	IOU	43974	10/19/11	\$76.86
Southeastern Utilities, Inc.	IOU	43794-U	4/7/10	\$61.71
Sugar Creek Utility Company, Inc.	IOU	43579	9/8/10	\$48.27
Twin Lakes Utilities, Inc.	IOU	43128-S1	11/12/09	\$42.48
Utility Center, Inc. (metered)	IOU	43874	4/13/11	\$46.98
Utility Center, Inc. (unmetered)	IOU	43874	4/13/11	\$59.21
Wastewater One, LLC d/b/a Rivers Edge	IOU	43115	8/25/10	\$39.85
Wastewater One, LLC (Galena WW Treatment Plant)	IOU	43779	6/16/10	\$84.79
Water Service Company of Indiana, Inc.	IOU	41486	1/19/00	\$44.28
Webster Development, LLC	IOU	42232	2/19/03	\$36.81
Wildwood Shores	IOU	43699-U	5/19/10	\$80.00
Wymberly Sanitary Works, Inc.	IOU	42877-U	3/22/06	\$80.00

Note:

This bill analysis should be construed as an informative guideline as a snapshot in time. Do not use this analysis to draw conclusions about performance since many factors (such as size, resources and customer density, etc.) affect the bill calculations.

Annual Budget

Fiscal Year 2011-2012

Expenses	Allotments	Expenditures
Personnel	\$6,468,771.33	\$6,468,771.33
Utilities	\$142,769.39	\$142,769.39
Contracts and External Services ¹	\$1,115,763.99	\$755,627.81
Supplies and Materials	\$85,994.44	\$85,994.44
Capital and Equipment	\$2,353.95	\$2,353.95
Payments to other Government Units	\$0	\$0
Social Service Payments	\$8,634.29	\$8,634.29
Administrative Operating Expenses ²	\$1,027,748.79	\$1,026,890.79
Total	\$8,852,036.18	\$8,491,042.00

 $^{^1}$ \$360,136.18 is an encumbrance not spent as of the end of fiscal year 2012. 2 \$858.00 is an encumbrance not spent as of the end of fiscal year 2012.

Public Utility Fee

Billable Portion of the Budget

2012-2013 Budget				
Utility Regulatory Commission	\$8,342,105			
Utility Consumer Counselor	\$5,425,868			
Expert Witness Fund	\$852,000			
	Total 2011	-2012 Budget	\$14,619,973	
2011-2012 Budget Augmentation	NC .			
Utility Regulatory Commission			\$436,271	
Utility Consumer Counselor				
othicy consumer counselor				
2010-2011 Reversions				
Utility Regulatory Commission	\$274,406.31			
Utility Consumer Counselor	\$173,658.99			
Expert Witness Fund	\$16,820.97			
	Total 2010-201	1 Reversions	\$464,886.27	
Billable Po	Billable Portion of the 2012-2013 Budget		\$14,591,357.73	
2011 Utility Intra-State Revenues				
	4= 640 =40 00			
Electric Utilities	\$7,619,712,888			
Gas Utilities	\$1,505,422,680			
Wastewater Utilities		\$31,184,571.91		
Telecommunications Utilities	\$2,747,760,014.36			
Water Utilities	\$223,761,346.	04		
	Total Intra-Stat	to Dovonuos	¢12 127 941 F07 10	
	Total Intra-Sta	te kevenues	\$12,127,841,507.19	
2012-2013 Public Utility Fee Billin	ng Rate			
Port 2013 Fabric Strict 1 CC Dilli	18 Hate			
Billable Portion of the 2011-2012	Billable Portion of the 2011-2012 Budget			
Divide By: Total 2010 Utility Intra-		\$14,591,357.73 \$12,127,841,507.19		
,	21.1.30 27. 15th 2010 Chief Herd State Neverlaces \$12,127,011,507.15			
2011-2012 Public Utility Fee Billing Rate			.00120313	

Acronyms

\mathbf{A}
ADSL – Asynchronous Digital Subscriber Line
AEP – American Electric Power
AFUDC – Allowance for Funds Used During Construction
AGA – American Gas Association
AOS – Alternative Operator Service
ARP – Alternative Regulatory Plan
AWWA – American Water Works Association
В
Bcf – Billion cubic feet
BPL – Broadband over Power Lines
BTS – Basic Telecommunications Service
Btu – British thermal unit
C
CAIR – Clean Air Interstate Rule
CalWaRN – California Water/Wastewater Agency Response Network
CAMR – Clean Air Mercury Rule
CCT – Clean Coal Technology
CETCs – Competitive Eligible Telecommunications Carriers
CGA – Common Ground Alliance
CLEC – Competitive Local Exchange Carrier

CPCN - Certificate of Public Convenience and Necessity

CT – Combustion Turbine

CTA – Certificate of Territorial Authority

CWA - Communications Workers of America

DIMP – Distribution Integrity Management Program

DNR – Indiana Department of Natural Resources

DSA – Designated Service Area

DSIC – Distribution System Improvement Charge

DSL – Digital Subscriber Line

DVR – Digital Video Recorder

E

EEFC – Energy Efficiency Funding Component

EIA – Energy Information Administration

EPA – U.S. Environmental Protection Agency

EPAct – Energy Policy Act of 2005

ERO – Electric Reliability Organization

ETC – Eligible Telecommunications Carrier

\mathbf{F}

FAC – Fuel Adjustment Clause

FCC – Federal Communications Commission

FERC – Federal Energy Regulatory Commission

FT – Firm Transportation

FTR – Financial Transmission Rights

FTTH – Fiber-to-the-Home

H

HEA - House Enrolled Act

T

ICTA – Indiana Cable Telecommunications Association

IDEM – Indiana Department of Environmental Management

IEDC – Indiana Economic Development Corporation

IGCC – Integrated Gasification Combined Cycle

ILAP – Indiana Lifeline Assistance Program

ILEC – Incumbent Local Exchange Carrier

I&M – Indiana Michigan Power Company, subsidiary of AEP

IMP – Integrity Management Program

IMPA – Indiana Municipal Power Agency

INWARN – Indiana Water/Wastewater Agency Response Network

IOU – Investor-owned utility, financed by the sale of securities

IPTV - Internet Protocol Television

IPL – Indianapolis Power and Light

ISDH – Indiana State Department of Health

ISO – Independent System Operator

ISP – Internet Service Provider

IT – Interruptible Transportation

ITU - International Telecommunication Union

IUPPS – Indiana Underground Plant Protection Service

IURC – Indiana Utility Regulatory Commission

IUSF – Indiana Universal Service Fund

L

LDC – Local Distribution Company

LFA – Local Franchise Authority

LMG – Landfill Methane Gas

LMOP – Landfill Methane Outreach Program

LNG – Liquefied Natural Gas

M

Mcf – Million cubic feet

MGT – Midwestern Gas Transmission

Midwest ISO – Midwest Independent Transmission System Operator

MMBtu – One million British thermal units, rough equivalent to an Mcf

MMcf – One million cubic feet

MMTCE – Million metric tons of carbon equivalent

MS4 – Municipal Separate Storm Sewer System

MSW - Municipal Solid Waste

MTEP – Midwest ISO Transmission Expansion Plan

MVPD – Multichannel Video Programming Distributor

MW – Megawatts

MWH - Megawatt hour

N

NANPA – North American Numbering Plan Administrator

NAPSR – National Association of Pipeline Safety Representatives

NARUC – National Association of Regulatory Utility Commissioners

NCTA – National Cable and Telecommunications Association

NERC – North American Electric Reliability Council

NIPSCO – Northern Indiana Public Service Company

NO_x – Nitrogen Oxides

NOAA – National Oceanic and Atmospheric Administration

NOPR – Notice of Proposed Rulemaking

NPDES – National Pollutant Discharge Elimination System

NPMS – National Pipeline Mapping System

NRRI – National Regulatory Research Institute

	NTA	– Normal	Temperature	Ad	iustmen
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0

OECD – Organization for Economic Cooperation and Development

OMS – Organization of Midwest ISO States

OPS – Office of Pipeline Safety

OQ – Operator Qualification

OUCC – Office of Utility Consumer Counselor

P

PHMSA - Pipeline Hazardous Materials Safety Administration

PIPES – Pipeline Integrity, Protection, Enforcement, and Safety

PJM – The PJM Interconnection

POLR – Provider of Last Resort

PPA – Purchase Power Agreement

PPTT - Purchased Power and Transmission Tracker

PSA – Pipeline Safety Adjustment

PSAPs – Public Safety Answering Points

PSI – PSI Energy

PSTN – Public Switched Telephone Network

PUHCA – Public Utility Holding Company Act of 1935

PUHCA 2005 – Public Utility Holding Company Act of 2005

PURPA – Public Utility Regulatory Policies Act of 1978

R

RFP – Request for proposals

RLECs – Rural Incumbent Local Exchange Carriers

RSD – Regional Sewer District

RSG – Revenue Sufficiency Guarantee

RTO – Regional Transmission Organization
S
SDC – System Development Charge
SIGECO – Southern Indiana Gas & Electric Company
SNG – Synthetic Natural Gas
SO2 - Sulfur Dioxide
SOHO – Small Office Home Office
SRC – Sales Reconciliation Component

 \mathbf{T}

TA-96 – Telecommunications Act of 1996

SUFG – State Utility Forecasting Group

U

UGS – Underground storage

UNEs – Unbundled Network Elements

USAC – Universal Service Administrative Company

USF – Universal Service Fund

 \mathbf{V}

VoIP - Voice over Internet Protocol

W

Wi-Fi – Wireless Fidelity

Wi-Max – Worldwide Interoperability for Microwave Access

Glossary

A

Access Charges: Charges designed to compensate local exchange carriers for the maintenance and operation of the local exchange network after the break up AT&T in 1984 in the Modified Final Judgment. Access charges take two forms: 1) an end user access charge, also known as Subscriber Line Charge that appears on the customer's bill as a separate line item; 2) carrier access charges paid by interexchange carriers to local exchange carriers when they connect to their local networks. Such charges are determined by tariffs subject to state or federal approval depending upon the intrastate or interstate nature of the call.

Alternative Fuels: Any non-traditional energy source.

Alternate Ratemaking for Pipelines: In a series of orders in February 1996, the Federal Energy Regulatory Commission opened the door to non-cost-based rates for pipeline services, including transmission and storage, provided that a pipeline could show: 1) it did not have market power or that the power was mitigated; and (2) cost-based recourse rates were available for customers who might be disadvantaged under the new system. Pipelines are also required to show the quality of service was maintained and that market-based, incentive or negotiated rates did not shift costs to captive customers.

American Gas Association (AGA): Trade group representing natural gas distributors and pipelines. The AGA also operates a laboratory for appliance certification.

Aquifer: Water bearing permeable rock formation that is capable of storing natural gas.

Area Code Overlay: A method used to relieve area code exhaust. A new three-digit area code is associated with the same geographic boundaries of an existing area code. Because the same seven-digit telephone numbers could then be assigned out of each area code, local calls are required to be dialed with 10-digits.

Area Code Split: A method used to relieve area code exhaust. The geographic area that uses the area code is split in two and a different area code is assigned to part of the geographic area while the other area keeps the existing area code.

Asynchronous Digital Subscriber Line (ADSL): A DSL designed to deliver more bandwidth downstream (from the central office to the customer's site) than upstream. Downstream rates range from 1.5 to 9 million bits per second. See also Digital Subscriber Line.

B

Base Gas: Gas required in a storage pool to maintain sufficient pressure to keep the working gas recoverable. Also called "cushion" gas.

Basic Telecommunications Service (BTS): A term used in House Enrolled Act 1279 to distinguish between telecommunication services regulated until June 30, 2009 and services that were unregulated on or before March 27, 2006. BTS is defined as standalone telephone exchange service that is provided to a residential customer through the customer's primary line; is the sole service purchased by the customer; is not a part of a package, promotion, or contract; and, not otherwise offered at a discounted price.

British Thermal Unit (Btu): The quantity of heat required to raise one pound of water (about one pint) one degree Fahrenheit at or near its point of maximum density. A common unit of measurement for gas prices. 1,034 Btus = 1 cubic foot.

Broadband: Advanced communications systems capable of providing high-speed transmission of services such as data, voice, and video over the Internet and other networks. Transmission is provided by a wide range of technologies, including digital subscriber line and fiber optic cable, coaxial cable, wireless technology, and satellite. Broadband platforms make possible the convergence of voice, video and data services onto a single network.

Bundled Resale of Local Exchange: Competitive local exchange carriers can compete by reselling the services of the incumbent local exchange carrier (ILEC) in this form. They purchase the services of the ILEC at wholesale rates hoping to resell them to retail customers at a profit. Each of Indiana's three large ILECs offer wholesale discounts to competitive carriers.

Bundled Service: Gas utility that operates as both the supplier and distributor of natural gas.

C

Capacity: The size of a plant (not its output). Electric utilities measure size in kilowatts or megawatts and gas utilities measure size in cubic feet of delivery capability.

Carbon Capture: The process of capturing carbon dioxide produced in the combustion of fuel to facilitate its disposal.

Carbon Sequestration: The storage of carbon dioxide in geological formations to prevent its release into the atmosphere.

Certificate of Public Convenience and Necessity (CPCN): A special permit commonly issued by a state commission that authorizes a utility to engage in business, construct facilities or perform some other service. Also a permit issued by the Federal Energy Regulatory Commission to engage in the transportation or sale for resale of natural gas in interstate commerce, or to construct or acquire and operate any facilities necessary.

City Gate: The physical location where gas is delivered by a pipeline to a local distribution company.

Coal Gasification: The controlled process of placing coal, steam, and oxygen under pressure to produce a low Btu gas.

Coal Bed Methane: Any gas produced from a coal seam.

Commodity Charge: The charge that covers the pipeline's variable costs in a Straight Fixed Variable rate design. Also referred to as a "usage charge."

Communications Service Provider: A term used in House Enrolled Act 1279 that means a person or entity offering communications services to customers in Indiana, without regard to the technology or medium used by the person or entity to provide the communications service.

Condemnation Action: A legal proceeding whereby a municipality exercises its power of eminent domain and condemns utility property that results in the transfer of utility property to the municipality.

Conditional Congestion Area: As designated by the U.S. Department of Energy, as areas where electric utilities have planned generation, and while some transmission congestion is present, significant congestion would result if transmission is not built in conjunction with the new generation resources.

Cooperative: A business entity similar to a corporation, except that ownership is vested in members rather than stockholders and benefits are in the form of products or services rather than profits.

Cost-of-Service Rates: Rates based on prudently incurred costs of doing business, plus a reasonable rate of return on investment in plant and equipment, and throughput projections. This is the rate development methodology commonly used by state or federal regulators.

Cramming: A practice in which customers are billed for unexpected and unauthorized telephone charges or services. Refers to the fact that the charges are crammed into the telephone bill in an inconspicuous place so the charges go unnoticed by the customer.

Customer Charge: A fixed amount to be paid periodically by a customer without regard to demand or energy actually used. The customer charge recovers the cost of meters and other administrative costs of billing.

D

Decoupling: Alternative rate design theory that separates the recovery of a utility's fixed costs from the volume of natural gas sold.

Dekatherm (Dth): A unit of heating value equal to 10 therms or one million Btus (1MMBtu). Roughly, 1Mcf = 1, MMBtu = 1 Dth

Demand Response: Reducing the use of electricity to meet local or regional power system needs rather than increasing the output of electricity.

Digital Subscriber Line (DSL): A generic term for digital lines provided by incumbent or competitive local exchange carriers that allows the customer to use the same subscriber line for voice and data simultaneously without subscribing to a second line for Internet access.

Distribution: The component of a gas, electric or water system that delivers gas, electricity, or water from the transmission component of the system to the end-user. Usually the commodity has been altered from a high pressure or voltage level at the transmission level to a level that is usable by the consumer. Distribution is also used to describe the facilities used in this process.

Distribution System Improvement Charge: A mechanism available to water utilities to pass the costs of infrastructure replacement onto their customers between rate cases on a more expedited basis.

 \mathbf{E}

Effluent: The water that is discharged after being treated at a sewage plant.

Eligible Telecommunications Carrier (ETC): A common carrier eligible to receive universal service support. An ETC is required to offer services that are supported by the federal universal support mechanisms either using their own facilities or a combination of its own facilities and resale of another carrier's services. State commissions are responsible for the designation of ETCs.

End Use: The final use to which gas or electricity is put by the ultimate consumer.

Energy Information Administration: Statistical information collection and analysis branch of the Department of Energy.

Energy Independence & Security Act of 2007: A comprehensive energy law that focuses on improved efficiency standards, and the research and development of energy technologies and infrastructure.

Energy Policy Act of 1992: This act authorized the Federal Energy Regulatory Commission to order wholesale wheeling of electricity while explicitly restraining its power to order retail wheeling. The Act also created a new legal category of electricity generating and sales companies, referred to as "Exempt Wholesale Generators," that are free from the Public Utility Holding Company Act of 1935 restrictions.

Energy Policy Act of 2005: Major provisions regarding the electricity industry included the creation of the Public Utility Holding Company Act of 2005, clean coal, nuclear, wind, and alternative energy initiatives, establishment of an Electric Reliability Organization, incentive rates for transmission investment, transmission siting, smart metering, net metering, utility interconnection with distributed generation, increased efficiency of fossil-fuel power plants, and the increased diversity of fuel sources to generate electricity.

Environmental Protection Agency: A federal agency created in 1970 to execute federal research, monitoring, standard setting and enforcement actions related to protecting the environment.

F

Facilities-based Interexchange: A carrier that offers facilities-based interexchange deploys their own tandems and/or trunks as opposed to purchasing blocks of time from other interexchange carriers and reselling the services to retail customers.

Facilities-based Local Exchange: A carrier that offers facilities-based local exchange may construct and deploy its own networks or it may rely on unbundled network elements from incumbent local exchange carriers or a combination of the two.

Federal Energy Regulatory Commission (FERC): The U.S. federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, and oil pipeline rates. The FERC also authorizes liquefied natural gas terminals, interstate natural gas pipelines and non-federal hydropower projects.

FiOS: Verizon's broadband initiative featuring fiber to the premise that is being deployed in several areas throughout the U.S.

Firm Service: The highest quality sales or transmission service that is offered to customers under a filed rate schedule that anticipates no planned interruption.

Fixed Costs: All costs included in the cost of service that do not fluctuate with the volume of the commodity passing through the system (e.g., labor, maintenance, and taxes).

G

Gigabit: A unit of measurement for the amount of data that is transferred in a second between two telecommunication points. One gigabit per second (Gbps) equals one billion bps.

Gasification: 1) The conversion of carbonaceous material into gas or the extraction of gas from another fuel. 2) The process during which liquefied natural gas is returned to its vapor or gaseous state through an increase in temperature and a decrease in pressure.

Gathering System: Pipelines and other equipment installed to collect, process, and deliver natural gas from the field, where it is produced, to the trunk or main transmission lines of pipeline systems.

Generation: The process of producing electricity. Also refers to the assets used to produce electricity for transmission and distribution.

Heartland: Heartland Gas Pipeline, LLC

Hedging: A method by which a purchaser or producer of natural gas or electricity uses a derivative position to protect against adverse price movements in the cash market by "locking in" a price for future delivery.

Holding Company: A corporate structure where one company holds the stock (ownership) of one or more other companies but does not directly engage in the operation of any of its business.

I

Indiana Lifeline Assistance Program (ILAP): A state program required by House Enrolled Act 1279 for the purpose of offering reduced charges for basic telecommunications services to eligible customers (customers with income that falls within 150 percent of the Federal Poverty Guidelines or participates in certain assistance programs, such as Medicaid, food stamps, etc).

Independence Hub: A large natural gas production platform in the Gulf of Mexico.

Independent System Operator (ISO): An independent organization or institution that controls the electric transmission system in a particular region.

Indiana Utility Regulatory Commission: An independent fact-finding body that hears evidence in cases filed before it and makes decisions based on the evidence presented in those cases. An advocate of neither the public nor the utilities, the Commission is required by state statute to make decisions that balance the interests of all parties to ensure the utilities provide adequate and reliable service at reasonable prices.

Integrated Gasification Combined Cycle (IGCC) Facility: A power plant using synthetic gas as a source of clean fuel. Syngas is produced from coal (or other fuels) in a gasification unit. Steam generated by waste heat boilers of the gasification process is utilized to help power steam turbines.

Integrity Management: Specifies how pipeline operators must identify, prioritize, assess, evaluate, repair and validate - through comprehensive analyses - the integrity of gas pipelines that, in the event of a leak or failure, could affect High Consequence Areas.

Internet Protocol Television (IPTV): A system where a digital television service is delivered by using Internet Protocol over a network infrastructure that may include delivery by a broadband connection.

Interruptible Transportation Service: Conditional gas service interrupted at the option of the pipeline. Also, referred to as "best efforts." Tariffs for interruptible service are cheaper than firm service. Electric providers may offer a similar service.

Interstate Gas: Gas transported through interstate pipelines to be sold and consumed in states other than the one in which it was produced. Also, refers to gas produced in the federal domain of the Outer Continental Shelf.

Intrastate Gas: Gas sold and consumed in the state in which it was produced and not transported in interstate pipelines.

Investor-Owned Utility: A utility financed by the sale of securities.

I.

Joint Board: Also known as the Federal-State Joint Board, instituted by the Federal Communications Commission to recommend changes of any of its regulations in order to implement section 214(e) of the Telecommunications Act of 1996, including the definition of services that are supported by the Federal universal service support mechanisms.

K

Kilobit: A unit of measurement for the amount of data that is transferred in a second between two telecommunication points. One kilobit per second (Kbps) equals 1000 bit per second (bps).

Kilowatt (kW): A basic unit of measurement; 1kW = 1,000 watts.

Kilowatt-Hour (**kWh**): One kilowatt of power supplied to or taken from an electric circuit steadily for one hour.

L

Landfill Gas: Gas produced by aerobic and anaerobic decomposition of a landfill generally composed of approximately 55% methane and 45% carbon dioxide, sometimes refined with membrane methods to eliminate the carbon dioxide.

Liquefied Natural Gas (LNG): Natural gas converted to a liquid state by pressure and severe cooling, and then returned to a gaseous state to be used as a fuel. It is stored by many distributors for peak season use.

M

Mandatory Number Pooling: Requires carriers to share a pool of numbers with the same exchange. Without number pooling each competitive local exchange carrier is assigned an entire exchange or 10,000 block of phone numbers, which may not all be needed. With number pooling, exchanges can be broken down into blocks of 1,000, as known as "thousand block number pooling."

Megabit: A unit of measurement for the amount of data that is transferred in a second between two telecommunication points. One megabit per second (Mbps) equals one million bps.

Megawatt (MW): One thousand kilowatts or one million watts.

Megawatt-Hour (MWh): One megawatt of power supplied to or taken from an electric circuit steadily for one hour.

Merchant Plant: A power plant that is funded by investors and sells electricity in the competitive wholesale market.

Methane: The main component of natural gas.

Midwest ISO: The Midwest ISO was formed by transmission owners in 1996, and is based in Carmel, Indiana. The Midwest ISO's main responsibility is to ensure the safe and reliable transfer of electricity in the Midwest and ensure fair access to the transmission system.

Multi-Association Group Order (MAG Order): A Federal Communications Commission Report and Order adopted October, 2001 which prescribed access charge reform measures that affected small, rural incumbent local exchange carriers.

Municipalization: When a municipally-owned utility acquires an investor-owned utility serving a city or town.

Municipal Utility: A utility that is owned and operated by a municipal government. These utilities are organized as nonprofit local government agencies and pay no taxes or dividends; they raise capital through the issuance of tax-free bonds.

N

National Interest Electric Transmission Corridor: As established in the Energy Policy Act of 2005, any geographic area experiencing electric energy transmission capacity constraints or congestion that adversely affects consumers.

Normal Temperature Adjustment (NTA): A decoupling mechanism that reduces the risk of the gas utility not recovering margin due to warmer-than-normal (vice versa) during the heating season.

Not-for-profit Utility: A utility that does not distribute its surplus funds to owners or shareholders but uses them to pursue its goals.

NPDES Permits: Permits that allow utilities to discharge wastewater effluent into waterways.

Order 436: A Federal Energy Regulatory Commission rule promulgated in October 1985, establishing a voluntary, open-access system of natural gas transportation.

Order 500: An interim natural gas rule on open-access transportation, replacing Order 436. Order 500 embodied all the elements of Order 436 with three additions: forcing producers to credit transportation volumes against accruing take-or-pay (cross-crediting); allowing pipelines to direct bill customers for part of past take-or-pay charges; and allowing pipelines to fashion gas inventory charges (or supply reservation fees) to take care of future take-or-pay.

Order 636: Commonly known as the "Restructuring Rule," Order 636 provides for pipeline companies to change from being merchants of natural gas to being transporters of natural gas and allows open-access transportation services regardless of who owns the gas.

Order 712: Revised regulations governing interstate natural gas pipelines to reflect changes in the market for short-term transportation services on pipelines and to improve the efficiency of the capacity release program.

Organization of Midwest ISO States (OMS): A group of state utility commissions in the Midwest ISO footprint that acts as an adviser on some Midwest ISO functions.

P

Peak Shaving: Supply of fuel gas for distribution systems from an auxiliary source of limited supply and higher cost (e.g., propane, liquefied natural gas) during periods of maximum demand when the primary source is not adequate. Electricity providers may also use peak shaving to reduce demand at peak periods. Service interruptions and customerowned generation are methods electricity providers use for peak shaving.

PJM Interconnection: The PJM Interconnection is the regional transmission organization (RTO) responsible for the operation and control of the bulk power system throughout all or portions of Delaware, Indiana, Illinois, Kentucky, Maryland, Michigan, New Jersey, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia, and the District of Columbia. PJM became the first fully functioning RTO in 1997.

Point-to-Point Transmission: The reservation and/or transmission of electricity on either a firm basis and/or a non-firm basis from point(s) of receipt to points(s) of delivery, under a tariff, including any ancillary services that are provided by the transmission provider.

Private Activity Bonds: Municipal bonds that are issued to finance facilities for investor-owned or not-for-profit water utilities.

Privatization: When an investor-owned utility acquires a municipally-owned utility.

Public Utility Holding Company Act of 1935 (PUHCA): A federal law to facilitate the regulation of electric utilities, by either limiting their operations to a single state, and thus subjecting them to effective state regulation, or forcing divestitures so that each became a single integrated system servicing a limited geographic area. Another purpose of the PUHCA was to keep utility holding companies engaged in regulated businesses from engaging in unregulated businesses. The PUHCA required Securities and Exchange Commission approval prior to a holding company engaging in a non-utility business and that such businesses be kept separate from the regulated business. The PUHCA was repealed by the Energy Policy Act of 2005, and replaced by what is known as the Public Utility Holding Company Act of 2005.

Public Utility Regulatory Policies Act (PURPA): A federal law passed in 1978 as part of the National Energy Act. It was meant to promote greater use of renewable energy. Implementation of the act was left to the states. The PURPA was amended in 2005 by the Energy Policy Act of 2005 sections 1251 through 1254.

Pulverized Coal: Coal that is ground into dust using a powdered coal mill and used as the fuel in a power plant to generate electricity.

Purchasing Cooperative: A type of cooperative arrangement, often among businesses, to agree to aggregate demand to get lower prices from selected suppliers.

Q

Quadruple Play: A service bundle that includes high-speed data, telephony, television and wireless communications services.

R

Rate Base: The investment value established by a regulatory authority upon which a utility is permitted to earn a specified rate of return.

Rate Design: The method of classifying fixed and variable costs between demand and commodity components.

Rate of Return: The percentage that a company earns on its investment.

Raw Natural Gas: Natural gas brought from underground up to the wellhead. Natural gas found at the wellhead is not as pure as processed or pipeline quality natural gas used by consumers. Raw natural gas comes from three types of wells: oil wells, gas wells, and condensate wells.

Reclaimed Water: Wastewater that has been treated to remove solids and certain impurities, and used for irrigation or recharging aquifers.

Reliability: A term used in both the electric and gas industry to describe the utility's ability to provide uninterrupted service of gas or electricity. Reliability of service can be compromised at any level of service: generation or production, transmission or distribution.

Renewable Portfolio Standard: A requirement that a specified portion of a utility's electricity be supplied by energy sources defined as renewable.

S

Service Territory: Under the current regulatory environment, an electric utility is granted a franchise to provide energy to a specified geographical territory, designated as a service territory.

Slamming: The practice of switching a telephone customer's long distance or local service provider without obtaining permission from the customer.

Smart Grid: An electricity delivery system that encompasses devices and technologies designed to improve the efficiency of energy use and the transfer of energy across it.

Small Utility Filing: A process where a utility, which serves under 5,000 customers, primarily residential, and does not serve extensively another utility, can increase its rates without a formal public hearing.

Spot Market: A market characterized by short-term, typically interruptible, or best efforts contracts for specified volumes. The bulk of natural gas spot market trades on a monthly basis, while power marketers sell spot supplies on an hourly basis.

Storage: Facilities used to store natural gas that is transferred from its original location. Usually consists of natural geological reservoirs like depleted oil or gas fields, waterbearing sands sealed on top by impermeable cap rock, underground salt domes, bedded salt formations, or in rare cases, abandoned mines.

Straight-Fixed Variable Rate Design: Rate design methodology that allocates all fixed costs to the demand component and allocates all variable costs to the commodity, or volumetric, component. Also called "Fixed Variable."

Supply Side Management: The systematic development of a gas supply plan or an electric resource plan.

Synthetic Natural Gas: Energy-rich vapors manufactured from coal.

System Development Charge: A one-time charge assessed by water and wastewater utilities to new customers to finance development of utility systems necessary to serve those new customers. The purpose is to impose a portion of the cost of capital improvements upon those developments that create the need for, or increase demand for capital improvements.

Sub-metering/Sub-billing: The practice where a consumer of utility service, usually an apartment complex or a mobile home park, passes along the cost of water or electric service to the tenants of the complex or park through a separate utility bill.

T

Take-and-Pay: Clause that requires a minimum quantity of natural gas to be physically taken and paid for, usually in association with oil, or wells, that will be damaged by failure to produce.

Tariff: Compilation of all effective rate schedules for a company, along with general terms and conditions of service.

Therm: Unit of heating value equivalent to 100,000 Btus.

Transmission: The process of transferring energy (either gas or electricity) or water from the production or generation source to the point of distribution. Also refers to the facilities used for this process.

Triple Play: A service bundle that includes telephone, high-speed Internet access and television.

IJ

Unaccounted for Gas: The difference between the total gas available from all sources and the total gas accounted for as sales, net interchange, and company use. This difference includes leakage or other actual losses, discrepancies due to meter inaccuracies, variations of temperature and/or pressure, and other variants, particularly billing lag.

Unbundled Network Elements: The Telecommunications Act of 1996 required that independent local exchange carriers unbundled their network elements to make them available to competitive local exchange carriers on the basis of incremental costs.

Universal Service: A policy to keep local rates low and encourage every household to have a telephone.

Unserved Energy: Electricity demand that the utility is unable to supply. In the electric utility planning process, unserved energy helps identify when and what type of new resources may be needed in the future.

 \mathbf{V}

Volatility: The market's price and movement within that range. The direction of the price move, whether up or down, is not relevant. Historic volatility indicates how much prices have changed in the past and is derived by using daily settlement prices for futures. Implied volatility measures how much the market thinks prices will change in the future, obtained from daily settlement prices for options.

Voltage: The rate at which energy is drawn from a source that produces a flow of electricity in a circuit; expressed in volts.

Voice over Internet Protocol (VoIP): Technology used to transmit voice conversations over a data network using the Internet Protocol. Such data network may be the Internet or a corporate Intranet.

W

Weatherization: Any change made to a home or building that is designed to conserve energy.

Well: A well that produces at surface conditions the contents of a gas reservoir.

Wellhead: The assembly of fittings, valves, and controls located at the surface and connected to the flow lines, tubing, and casing of the well as to control the flow from the reservoir.

Wireless Fidelity (Wi-Fi): Wi-Fi was originally a brand licensed by the Wi-Fi Alliance to describe the embedded technology of wireless local area networks (WLAN) based on the IEEE 802.11 standard. As of 2007, common use of the term Wi-Fi has broadened to describe the generic wireless interface of mobile computing devices, such as laptops in local area networks.

Withdrawal: Those uses of water that involve the physical removal of water from the ground or surface source.

Worldwide Interoperability for Microwave Access (Wi-Max): Wi-Max is a telecommunications technology aimed at providing wireless data over long distances in a variety of ways, from point-to-point links to full mobile cellular type access. Wi-MAX allows a user, for example, to browse the Internet on a laptop computer without physically connecting the laptop to a wall jack.