



**Quadrennial Energy Review
Second Installment
Electricity: Generation to End-Use
Stakeholder Meeting #4: Des Moines, IA
May 6, 2016
State Historical Museum of Iowa
600 East Locust Street**

Host and Panelist Bios



Dr. Ernest Moniz, United States Secretary of Energy

As United States Secretary of Energy, Dr. Ernest Moniz is tasked with implementing critical Department of Energy missions in support of President Obama's goals of growing the economy, enhancing security and protecting the environment. This encompasses advancing the President's all-of-the-above energy strategy, maintaining the nuclear deterrent and reducing the nuclear danger, promoting American leadership in science and clean energy technology innovation, cleaning up the legacy of the cold war, and strengthening management and performance.

Prior to his appointment, Dr. Moniz was the Cecil and Ida Green Professor of Physics and Engineering Systems at the Massachusetts Institute of Technology (MIT), where he was a faculty member since 1973. At MIT, he headed the Department of Physics and the Bates Linear Accelerator Center. Most recently, Dr. Moniz served as the founding Director of the MIT Energy Initiative and as Director of the MIT Laboratory for Energy and the Environment where he was a leader of multidisciplinary technology and policy studies on the future of nuclear power, coal, nuclear fuel cycles, natural gas and solar energy in a low-carbon world.

From 1997 until January 2001, Dr. Moniz served as Under Secretary of the Department of Energy. He was responsible for overseeing the Department's science and energy programs, leading a comprehensive review of nuclear weapons stockpile stewardship, and serving as the Secretary's special negotiator for the disposition of Russian nuclear materials. From 1995 to 1997, he served as Associate Director for Science in the Office of Science and Technology Policy in the Executive Office of the President.

In addition to his work at MIT, the White House and the Department of Energy, Dr. Moniz has served on a number of boards of directors and commissions involving science, energy and security. These include President Obama's Council of Advisors on Science and Technology, the Department of Defense Threat Reduction Advisory Committee, and the Blue Ribbon Commission on America's Nuclear Future.

A member of the Council on Foreign Relations, Dr. Moniz is a Fellow of the American Association for the Advancement of Science, the American Academy of Arts and Sciences, the Humboldt Foundation, and the American Physical Society.

Dr. Moniz received a Bachelor of Science degree summa cum laude in Physics from Boston College, a Doctorate in Theoretical Physics from Stanford University, and honorary degrees from the University of Athens, the University of Erlangen-Nuremberg, Michigan State University, and Universidad Pontificia de Comillas.



The Honorable Terry Branstad, Governor of Iowa

Governor Terry Branstad was born, raised and educated in Iowa. A native of Leland, Governor Branstad was elected to the Iowa House in 1972, '74 and '76, and elected as Iowa's lieutenant governor in 1978. He was Iowa's longest-serving governor, from 1983 to 1999. As the state's chief executive, he weathered some of Iowa's worst economic turmoil, during the farm crisis of the '80s, while helping lead the state's resurgence to a booming economy in the '90s.

At the end of his tenure, Iowa enjoyed record employment, an unprecedented \$900 million budget surplus, and the enactment of historic government overhauls that led to greater efficiencies in state government. As a result of Governor Branstad's hands-on, round-the-clock approach to economic development, Iowa's unemployment rate went from 8.5 percent when he took office to a record low 2.5 percent by the time he left in 1999.

Following his four terms as governor, Governor Branstad went on to serve as president of Des Moines University (DMU). During his 6-year tenure, he was able to grow the university into a world-class educational facility. Its graduates offer health care in all 50 states and in nearly every Iowa county. While there, he grew enrollment, increased the endowment and integrated new buildings, programs and initiatives.

In October of 2009, sensing a need for change in the way state government operates and wanting to "lead Iowa's comeback," Governor Branstad retired from DMU to explore running for governor in 2010. He launched his campaign in January of 2010, and in June he won the Republican primary and named energetic state Senator Kim Reynolds as his running mate.

This team traveled to each of Iowa's 99 counties, sharing their commitment to the creation of 200,000 new jobs for Iowans, a 15 percent reduction in the cost of government, a 25 percent increase in family incomes, and a renewal of national excellence of Iowa's schools. As a result, they were elected as Iowa's Governor and Lieutenant Governor on November 2, 2010 and were sworn into office on January 14, 2011.

True to his word, Governor Branstad, along with Lt. Governor Reynolds committed to a balanced budget in their first year in office. For the first time in decades, the Legislature passed, and Governor Branstad signed, a two-year budget with a 5-year projection. This budget provided Iowa businesses the predictability and stability they needed to grow. As a result, Iowa added more than 46,000 gross new jobs in 2011, Branstad's first year in office. Iowa added 13,500 net new jobs in 2011, which is 6 times more than the 2,200 average net new jobs a year during the previous 12 years.

Governor Branstad and Lt. Governor Reynolds are encouraged by these numbers and believe the new Iowa Partnership for Economic Progress they created will only build Iowa's economic health. He continues to push for government efficiencies and spending the hardworking taxpayers' dollars in the most effective manner possible. When running for governor, Governor Branstad set a goal of reducing the size and cost of government by 15%.

In the 2012 legislative session, Governor Branstad and Lt. Governor Reynolds continued to push for commercial property tax reform, not because it costs businesses money, but because it costs Iowans jobs. The pair also made education reform a top priority of the 2012 session. Gov. Branstad and Lt. Gov. Reynolds believe that in order to attract world-class jobs, we must have a world-class workforce. Iowa's children deserve the opportunity to compete for careers in a global environment.

On November 4, 2014, Iowans re-elected Governor Branstad and Lt. Governor Reynolds. In his first session after being re-elected, Gov. Branstad signed historic investments in Iowa's infrastructure into law. The result is significant investment in Iowa's roads and bridges, as well as the innovative Connect Every Acre Plan that will work

to expand high-speed broadband internet to Iowa's agriculture industry, schools, businesses and homes. In March 2016, Iowa Workforce Development announced that the state of Iowa's unemployment had fallen to 3.7%, well below the national average.

Governor Branstad and his wife Chris have three grown children: Eric (Adrienne), Allison (Jerry Costa) and Marcus (Nicole), and six grandchildren, Mackenzie, Bridget, Sofia, Alexis, Estelle and Everett.



The Honorable Kim Reynolds, Lieutenant Governor of Iowa

Kim Reynolds, a former state senator and county treasurer, serves as Iowa's 45th Lieutenant Governor. She was elected Iowa's Lieutenant Governor on November 2, 2010. Lt. Governor Reynolds truly understands the importance of fiscal responsibility, job creation, education, and technology. As Lt. Governor, she uses her in-depth understanding of Iowa's small towns and urban communities to continually move Iowa forward with bold economic development initiatives. Lt. Governor Reynolds co-chairs the Iowa Partnership for Economic Progress board, which is comprised of CEOs from the state's major industries.

Since 2011, she has helped attract more than \$11 billion in private investment to the state. Companies like Facebook, Google, Microsoft, CJ Bio America, Cargill, Mid-American, CF Industries, and Valent Biosciences, have chosen to locate or expand in our state. Each year, Lt. Governor Reynolds travels to all 99 counties and enthusiastically listens to Iowans of all ages. She actively seeks to learn how Iowa can become an even stronger state. Whether it's meeting with women business owners or rural farmers, Lt. Governor Reynolds embraces the opportunity to gain insights into their concerns or encourage collaboration.

On the global front, Lt. Governor Reynolds knows that one in five Iowa jobs is attributed to international trade. Her travels have taken her from China to Germany to Brazil to South Korea to Vietnam to the Philippines and Thailand. In leading these trade missions, the Lt. Governor has established long-term relationships that already are resulting in increased exports, more foreign direct investment and new jobs for Iowans.

Lt. Governor Reynolds tirelessly works to provide access to STEM (Science, Technology, Engineering, and Math) programs for students, especially the underrepresented and underserved. She co-chairs the Governor's STEM Advisory Council in Iowa. She also is known throughout the country as one of the strongest advocates for STEM. Her passion for STEM education was recognized by STEMconnector™ when she was named to their "100 Women Leaders in STEM." In 2013-14, Lt. Governor Reynolds chaired the STEM Food & Ag Council, which brings together government, business and education leaders to connect students to the STEM, food and agriculture careers of tomorrow.

In 2015, Iowa announced that the state would be developing the first ever Iowa Energy Plan, and the effort would be chaired by Lt. Gov. Reynolds. Iowa's energy plan is a means to set state priorities and provide strategic guidance for decision-making while working to encourage energy, economic, and environmental benefits through the goals and recommendations it sets forth. It will include an assessment of current and future energy supply and demand, examine existing energy policies and programs, and identify emerging energy challenges and opportunities.

On the national front, Lt. Governor Reynolds is Chair for the National Lieutenant Governors Association. She serves as Honorary Chair of Million Women Mentors – Iowa as well as Honorary Chair of the Employer Volunteer Initiative in Iowa.

A native of St. Charles, Iowa, Lt. Governor Reynolds enjoys her small town roots. She and her husband Kevin reside in Osceola. They are proud parents to three daughters and eight grandchildren.



Patricia Hoffman, Assistant Secretary, Office of Electricity Delivery and Energy Reliability

Patricia Hoffman was named Assistant Secretary for the Office of Electricity Delivery and Energy Reliability (OE) at the United States Department of Energy (DOE) in June 2010 after serving as Principal Deputy Assistant Secretary for OE since November 2007. Assistant Secretary Hoffman provides leadership on a national level on electric grid modernization, enhancing the security and reliability of the energy infrastructure and facilitating recovery from disruptions to the energy supply. This is critical to meeting the nation’s growing demand for reliable electricity by overcoming the challenges of our nation’s aging electricity transmission and distribution system and addressing the vulnerabilities in our energy supply

chain.

Ms. Hoffman holds a Bachelor of Science and a Master of Science in Ceramic Science and Engineering from Pennsylvania State University.



Sam Ridders, Administrator, Rural Business-Cooperative Service

Sam Ridders is currently serving as Administrator for Rural Business-Cooperative Service. He was appointed Rural Business-Cooperative Service (RBS) Deputy Administrator in December 2014 and works across the breadth of the Agency’s programs. He joined USDA after serving as Director of the Energy and Environment Team with the White House’s Presidential Personnel Office.

Prior to this position, Sam served as Regional Field Director in Wisconsin on President Obama’s re-election campaign. From 2007 to 2012, he was an attorney with a commercial litigation firm in New York City specializing in antitrust and First Amendment law. Before practicing law, Administrator Ridders spent years working as a community and political organizer nationally and internationally. He earned a J.D. from the University of Wisconsin, a Master of International Affairs from Columbia University and a B.A. in Political Science and Philosophy from Macalester College in St. Paul, Minnesota. He also served as a volunteer with the US Peace Corps in rural Zambia. Administrator Ridders is from a small town in Southern Wisconsin.



The Honorable T.M. Franklin Cownie, Mayor of Des Moines

Des Moines, Iowa Mayor T.M. Franklin Cownie was elected to an at-large council seat in January 2002. He was then elected to the mayor’s seat in January 2004, and was re-elected in 2008, 2012, and 2016, resulting in being Des Moines’ longest-serving mayor. Mayor Cownie has spent much of his time in leadership roles on the national and international stage representing issues that he is most passionate about: local control, green initiatives, jobs, and the economy.

Mayor Cownie is rapidly gaining national and international recognition through his leadership roles. He is a member ICLEI USA Board of Directors, ICLEI Global Executive Committee (2015-18) North America Regional Representative, ICLEI e.V. Board Vice President, the US Conference of Mayors trustee, and a steering committee member for Mayors Innovation Project. Mayor Cownie was an early signer of the US Conference of Mayors Climate Protection Agreement.

Mayor Cownie is the father of four children and has deep ties to his community. His goal has always been to build a better future and a better community for the next generation. “With the right consensus, be it residents, city officials, or business leaders, I believe you can make great things happen. Every success involves the work of a lot of people from a broad spectrum of talent and skills. I have been fortunate to be able act as the catalyst to bring

people together to make things happen,” said Cownie. “Growing up in a family owned business gave me an opportunity to do many jobs from sweeping the floor, to ordering supplies, to marketing and promotion. I learned the value of teamwork and that everyone’s contribution is important,” he added. He works with his fellow council members for sustainable growth in the city that will have long-term benefits to the community, advocating improvement in the quality of development in both residential and commercial sectors.



Christopher Kelley, PMP, Vice President, Energy Solutions Division, Energetics, Inc., and QER Public Meeting Moderator

Chris Kelley has nearly twenty years of experience in the energy and technologies industries. As an experienced program management consultant and FORTUNE 200 corporate director, his background includes developing and improving utility, technology and energy strategy and execution-oriented program management offices. He has facilitated effective collaborations of disparate groups focused on critical national challenges, industry-wide opportunities, and organizational strategy. His experience includes a history of increasing effectiveness of project management throughout organizations – pushing efficiency and creating higher visibility into the project work that results in execution on strategy.

In addition to facilitating public meetings related to the Department of Energy’s (DOE’s) Quadrennial Energy Review, including moderating discussions on energy transportation, transmission, and storage, including a focus on electricity, Mr. Kelley has provided program and project guidance for DOE’s ~\$8 billion, 99-project Smart Grid Investment Grant (SGIG), strategic and technology consulting for DOE’s geothermal technology program, and similar services for the National Institute of Standards and Technology (NIST) and the American Society of Mechanical Engineers. Mr. Kelley has also engaged in program and project management activities for large utility, government, and non-governmental organizations’ energy, organizational development, and technology projects, and has provided strategy development and implementation for FORTUNE 200 corporate services organizations.

Mr. Kelley has been with Energetics since 2009, when he joined the company from Constellation Energy, where he was Director of that company’s IT and Supply Chain Project Management Office. He had been with Constellation Energy, and its regulated utility subsidiary Baltimore Gas & Electric (BG&E), since 2000. Prior to joining BG&E, Mr. Kelley worked on Y2K compliance issues for utilities for the Maxim Group.

Mr. Kelley earned his Bachelor’s degree, *Magna cum laude*, in Information Systems, from the University of Maryland Baltimore County, and his MBA, in Global Strategy and Management, from the University of Maryland, Robert H. Smith School of Business. During his MBA studies, Mr. Kelley did graduate-level coursework and onsite consulting in developing nations, including business strategy for multinational and regional companies in Delhi, Bangalore, and Mumbai, India. He received his certificate as a Project Management Professional (PMP) from the Project Management Institute (PMI) in 2005. Since 2013, Mr. Kelley have been a member of the Maryland Clean Energy Center Advisory Council. Mr. Kelley became an Eagle Scout in 1990.

Plan 1: Bulk Power Generation and Transmission: How Can We Plan, Build, and Operate the Appropriate Amount for Future Needs?



Jeffrey Gust, Vice President, Compliance and Planning and Chief Compliance Officer, MidAmerican Energy Company

In his role as Vice President for Compliance and Planning and Chief Compliance Officer is to manage the company’s FERC mandatory reliability standard compliance requirements, state mandatory gas pipeline and electric distribution standard requirements, develop and manage the company’s transmission planning and services strategy and resource adequacy requirements through the MISO processes. His staff includes managers and directors working on NERC reliability standards, gas pipeline and electric distribution standards, transmission system planning and services and market assessment. Most recently, Jeff and his team has championed new large infrastructure projects in and around Iowa that will provide a wide range of reliability and economic benefits to the Midwest region.

Jeff has been with MidAmerican for over 26 years with management experience in reliability standards, transmission planning, energy and capacity wholesale marketing, commodity trading, fuel procurement, fuel transportation and plant engineering. Jeff graduated from Iowa State University in 1985 with a Bachelor of Science Degree in Engineering Science and obtained his Iowa mechanical engineering professional engineering license in 1990. Jeff is currently on the Midwest Reliability Organization board of directors where he has held leadership positions throughout his tenure, including chair.



Dean Ellis, Vice President of Regulatory Affairs, Dynegy

Dean Ellis currently serves as Vice President of Regulatory Affairs for Dynegy. In this capacity, Mr. Ellis manages policy for Dynegy’s wholesale and retail markets, which currently include New England (ISO-NE), New York (NYISO), the Mid-Atlantic (PJM), the Midwest (MISO) and California (CAISO). He is also responsible for overseeing environmental policy, along with government and legislative affairs for the 8 states in which Dynegy operates.

Mr. Ellis has over 20 years’ experience in the electric power industry, having held roles in engineering, design and the markets prior to his policy role at Dynegy. He holds a Bachelor of Science degree in Electric Power Engineering from Rensselaer Polytechnic Institute in Troy, NY, and is a licensed professional engineer.



Joshua Mandelbaum, Staff Attorney, Environmental Law & Policy Center

Josh Mandelbaum is an attorney working in the Environmental Law & Policy Center's Des Moines, Iowa office. Mr. Mandelbaum focuses on clean energy, energy efficiency, transmission, and clean water litigation and policy issues. He previously worked as a litigation associate with the Davenport, Iowa-based firm Lane & Waterman. Before law school, Josh worked as a Senior Policy Advisor for Iowa Governor Tom Vilsack and Lt. Governor Sally Pederson.

Mr. Mandelbaum is a graduate of Brown University and the University of Iowa College of Law.



Tom Heller, Chief Executive Officer, Missouri River Energy Services

Thomas J. Heller is Chief Executive Officer of Missouri River Energy Services (MRES). He joined MRES in September 1992 as General Manager. Mr. Heller is a native of North Dakota. He earned a Bachelor's degree in electrical engineering from North Dakota State University and is a registered professional engineer. He also has a Master's degree in Business Administration from Minnesota State University at Moorhead.

Prior to joining MRES, Mr. Heller worked for 16 years for the Moorhead (Minn.) Public Service Department, including seven and a half years as general manager. While he was general manager at Moorhead, he served on the Boards of Directors of MRES, Western Minnesota Municipal Power Agency (Western Minnesota), and the Minnesota Municipal Utilities Association (MMUA). Nationally, Mr. Heller serves on the boards of directors of the National Hydro Power Association and the Electric Power Research Institute. He also serves on the executive committee of the Consumers United for Rail Equity (CURE), and he was the past chair of the Transmission Access Policy Study Group (TAPS). He was the recipient of the American Public Power Association's James D. Donovan Individual Achievement Award in 2004 and the Alan H. Richardson Statesmanship Award in 2014.



Angela Weber, Commissioner, Indiana Utility Regulatory Commission, and Vice President, Organization of MISO States

Angela Weber was appointed to the Indiana Utility Regulatory Commission by Governor Mike Pence on March 10, 2014, and reappointed by Governor Pence to a full term on April 1, 2014. Prior to her appointment to the Commission, she practiced law for the Indianapolis law firm Ice Miller LLP as a member of the firm's Environmental Law Group.

A dedicated public servant, Angela has served in the local, state, and federal government. She served as a Marion County Deputy Prosecuting Attorney in Indianapolis, Indiana, where she conducted jury and bench trials. Angela also served as a staff attorney for the Indiana Department of Education and as an Administrative Law Judge for the Indiana Utility Regulatory Commission.

A U.S. Army Veteran, Angela served from 1996 to 2000 as a Russian Linguist/Voice-Intercept Operator. She was a member of SFOR 7, the NATO-led peacekeeping mission in Bosnia and Herzegovina. She was honorably discharged in 2000.

Angela earned a bachelor of arts from Indiana University in Bloomington, Indiana, in 1996. She received her juris doctor from the Indiana University Maurer School of Law in 2006 and was admitted to the Indiana Bar in that same year. While in law school, she was the Senior Production Editor of the Federal Communications Law Journal and a member of the Trial Competition Team.

She currently serves as the Vice-President of the Organization of MISO States and is a member of NARUC's Committee on Gas. She is a former Chairperson of the Utility Law Section of the Indiana State Bar Association and an alumna of the Richard G. Lugar Excellence in Public Service Series, Class of 2010–2011. She is a member of the American Legion, National Trust for Historic Preservation, and Indiana Landmarks.

Panel 2: Electricity Distribution and End-Use: How Do We Manage Challenges and Opportunities?



Kenneth Grant, Vice President of Sales and Marketing, Oklahoma Gas & Electric (OG&E)

Ken Grant is Vice President of Sales and Marketing at OGE Energy Corp, the parent of Oklahoma Gas & Electric (OG&E). He began his career as an engineer at Tinker Air Force Base before joining OG&E in 1992. He received a Bachelor of Science in Electrical Engineering from the University of Oklahoma, and a Master of Business Administration from the University of Central Oklahoma.

In addition to leading OG&E's successful smart grid deployment project, Mr. Grant led the development and implementation of the award-winning SmartHours® demand response program. The OG&E SmartHours program is nationally recognized and has been named a significant contributing factor in a number of awards presented to OG&E. Among them are the Edison Electric Institute's Edison Award™, the electric utility industry's most prestigious honor, and the North American Utility of the Year, awarded by Electric Light & Power Magazine.

Mr. Grant has led a number of groups within OG&E, including IT, Marketing, and Product & Technology Development. In his current role, he leads a team of professionals committed to creating high levels of customer engagement and loyalty. Ken's personal leadership philosophy is to inspire others to achieve more than they thought possible. His two favorite quotes are: "The greatest leader is not necessarily the one who does the greatest things. He is the one that gets the people to do the greatest things." – Ronald Reagan; and, "Don't tell people how to do things. Tell them what to do and let them surprise you with their results." – George S. Patton.



Brian Bowen, Regulatory Affairs Manager, FirstFuel

Brian Bowen is Regulatory Affairs Manager for FirstFuel Software. He works across the midwestern United States and Canada to promote analytics-enabled energy efficiency and customer engagement programs.

Mr. Bowen previously worked in the demand response, smart home, and community solar sectors.

He holds a Master's in City Planning from MIT - where he was is a Switzer Environmental Fellow - and he earned his BA at Yale University. He lives in Chicago.



Nora Naughton, Director of Policy, Midwest Energy Efficiency Alliance (MEEA)

Nora A. Naughton is the Director of Policy of the Midwest Energy Efficiency Alliance ("MEEA") where she is responsible for leading MEEA's energy efficiency policy and building policy initiatives. An attorney with over 25 years' experience in energy, real estate, commercial, and construction law, Ms. Naughton was recently the Interim General Counsel and Chief Ethics Officer of the Illinois Commerce Commission, where she was involved in all aspects of the regulation of public utilities and competitive providers in the electric, gas, water and telecommunications industries. Earlier in her career, Ms. Naughton was an equity partner in the Chicago law firm of Goldberg Kohn, LLC.

Ms. Naughton received her Bachelor's degree from the University of Chicago and her Juris Doctorate from the University of Michigan.



Becky Bradburn, General Manager, Franklin Rural Electric Cooperative, and Executive Vice President and General Manager, Prairie Energy Cooperative

Becky Bradburn is the General Manager of Franklin Rural Electric Cooperative in Hampton, IA and Executive Vice-President/General Manager of Prairie Energy Cooperative in Clarion, IA. Mrs. Bradburn joined Prairie Energy Cooperative in 2014 and Franklin REC in 2016. She has over fifteen years of experience with electric cooperatives.

Prior to moving back to Iowa, Mrs. Bradburn has experience with Minnesota electric cooperatives from her work with Brown County REA in Sleepy Eye, MN and Federated REA in Jackson, MN. Mrs. Bradburn is a licensed Certified Public Accountant and holds Bachelor's degrees in Business Administration, with an Emphasis in Accounting, from Mount Mercy College in Cedar Rapids, IA and in Arts, with an Emphasis in Management and Human Resources from Buena Vista University in Storm Lake, IA.



Joel Schmidt, Vice President – Regulatory Affairs, Alliant Energy

Joel Schmidt serves as Vice President – Regulatory Affairs for Alliant Energy. He previously served as Vice President – Regulatory and Financial Planning, Director – Financial Planning and Analysis, Regional Director – Customer Service Operations, Chief Audit, Ethics, and Compliance Officer, Managing Director – Business and Financial Performance, and Managing Director – China Alliant Energy International. Before joining Alliant Energy, Mr. Schmidt worked at IES Industries as Manager – Finance, and at Arthur Andersen in a number of audit and accounting related roles.

Mr. Schmidt received a bachelor's degree in Accounting and CPA Certification in 1985 and a MBA in 1998 from the University of Iowa. He is also a certified Lean Six Sigma Green belt.

Mr. Schmidt serves on a number of Boards, including the Alzheimer's Association of East Central Iowa, Horizons, Hawkeye Council Boy Scouts of America, Junior Achievement, Iowa Jobs for America's Graduates. He is also a member of the American Institute of Certified Public Accountants.



Mark Schuling, Consumer Advocate of the State of Iowa, Iowa Department of Justice

Mark R. Schuling was appointed Consumer Advocate for the State of Iowa in January 2011 by Attorney General Tom Miller. The Office of Consumer Advocate is a division of the Iowa Department of Justice.

Mr. Schuling oversees a staff of attorneys and technical specialists, as well as support personnel. The office is responsible for the investigation of the legality of rates and practices of all utility companies subject to the jurisdiction of the Iowa Utilities Board, and to represent consumers and the public generally before state and federal agencies concerning those matters.

Mr. Schuling received his law degree from Drake University in 1980. Following graduation he was appointed an Assistant Attorney General and served for four years as the legal representative to the Iowa Department of Revenue. Mr. Schuling was a practicing attorney for twenty-one years with the Brick, Gentry, Bowers, Swartz, Stoltze, Schuling & Levis law firm in Des Moines before being appointed as Director of the Iowa Department of Revenue in 2005. He served as Director under Governors Vilsack and Culver before being appointed by Attorney General Miller as Consumer Advocate. Mr. Schuling has experience and expertise in federal and state law, utility and telecommunications matters, and general civil law.

Mr. Schuling is also a Certified Public Accountant, a past president of the Federation of Tax Administrators (FTA), and has spoken to numerous groups and associations on tax, utility and business matters. He is a member of several energy related groups including serving as a Board Member of the National Association of State Consumer Advocates, an Advisory Board Member to the Financial Research Institute located at the University of Missouri in Columbia, Missouri, and as an Advisory Council Member to the Center for Public Utilities, located in New Mexico State University in Las Cruces, New Mexico. Additionally, he is the Chair of the Government Practice Section of the Iowa State Bar Association.

Panel 3: Transmission Development with an Evolving Generation Mix



Jennifer Curran, Vice President, System Planning and Seams Coordination, Midcontinent Independent System Operator, Inc. (MISO)

Jennifer Curran leads the company’s ongoing efforts to ensure wholesale market participants and, ultimately, energy consumers, benefit from MISO’s regional coordination of short and long-term system planning. Her responsibilities in that area include oversight of generator interconnection, transmission service, transmission cost allocation methodologies, energy policy analyses, and transmission planning for reliability, economics and public policy needs. Additionally, Ms. Curran oversees the development of the strategic vision for MISO’s market, reliability and system planning procedures with neighboring RTOs, ISOs and other electric utilities.

Since joining MISO in 2004, Ms. Curran has served in various strategic, business planning and operational oversight roles. Most recently, Ms. Curran was a leader in the eight-year effort to enhance reliability and increase regional generation efficiency through a region-wide transmission plan, which resulted in approval of a regional transmission portfolio known as Multi-Value Projects.

Prior to joining MISO, Ms. Curran was Manager of Power Generation & Supply Strategy for the Mid-Atlantic and Mid-Continent Regions at Reliant Resources. She holds a Bachelor of Science degree in Mechanical Engineering from Rice University and a Master of Business Administration from Duke University.



Lanny Nickell, Vice President for Engineering, Southwest Power Pool (SPP)

Lanny Nickell serves SPP as Vice President, Engineering with responsibility for ongoing development of SPP’s Transmission Expansion Plan, tracking costs and statuses of all approved SPP transmission expansion projects, administration of long-term transmission service and generator interconnection processes, and performance of engineering studies as necessary to support the needs of SPP members, federal and state regulators, the SPP Regional Entity, and other departments within SPP. He has also served as Vice President, Operations and in various management and engineering roles within the Operations department since joining SPP in 1997.

Prior to joining SPP, Mr. Nickell served in various engineering roles with Public Service Company of Oklahoma and Central and South West Services.



Sharon Segner, Vice President, Transmission, LS Power Development, LLC

Sharon Segner is Vice President at LS Power Development, LLC. She has executed the company’s national goals related to opening up a new sector of the energy business for independent transmission companies. Specifically, she has led the company’s national efforts related to FERC

Order No. 1000 transmission policy and the removal of incumbent transmission owners' right of first refusal. Ms. Segner has been involved in all aspects of her company's finalist proposal related to Artificial Island in PJM.

Prior to her tenure at LS Power, she developed for Competitive Power Ventures two large natural gas projects in the Washington, DC area – CPV Warren (now owned by Dominion Virginia Power) in Front Royal, VA, and CPV Maryland in Charles County, Maryland. Formerly, she was the lead developer at PG&E National Energy Group on the 650-MW Otay Mesa Project in San Diego County, California.

Ms. Segner is no stranger to energy policy issues. She left the development world for four years from 2002 to 2006. During that time, she was the Principal Advisor to the Chairman of the Senate Energy Subcommittee on Energy, the Honorable Lamar Alexander (R-TN) during the passage of the Energy Policy Act of 2005. She was involved in the drafting of the natural gas provisions of the Energy Policy Act of 2005. Segner later served in the White House / Executive Office of the President's Office of Management and Budget focused on energy issues. Segner has a MBA from Rice University and a BA from the University of Texas at Austin.



Carl Huslig, Senior Vice President, Business Development, GridLiance GP, LLC

Carl Huslig has more than 20 years of experience in the utility industry – with Aquila, Inc. and its affiliates, then as President of ITC Great Plains. While responsible for the Aquila system in Missouri and Kansas, he worked extensively within stakeholder groups in SPP and MISO. At ITC Great Plains, Mr. Huslig worked closely with Mr. Rahill to successfully build a start-up transmission company from zero assets to \$500 million in six years, making ITC Great Plains the most successful greenfield independent transmission company in the U.S. at the time. As President, Mr. Huslig was responsible for ITC Great Plains' project development, staffing and compliance and led SPP stakeholder taskforces that changed SPP rules to accommodate independent transmission companies.

Mr. Huslig earned a B.S. in Electrical Engineering from Kansas State University.



Jim Hunter, Director of Utility Department, International Brotherhood of Electrical Workers (IBEW)

Jim Hunter worked for Potomac Electric Power Company (PEPCO) as a Relay Technician for over 20 years. During that time he worked in transmission/distribution substations and in the fossil fuel power plants that PEPCO owned. In 1994, he was elected as the President and Business Manager of IBEW Local 1900 in Washington, DC. In that role, in 1996 he intervened in the Pepco/BGE merger and testified as an expert witness on electric system design. From 1997 to 2002 Mr. Hunter intervened and testified in numerous cases before FERC, the District of Columbia and Maryland Public Service Commissions and at Department of Energy hearings.

In 1998, Maryland Governor Paris Glendening appointed him to the Governor's Taskforce on Electric System Reliability. He has also testified before Congress on system reliability as well as workforce issues.

In 2002 he was appointed to the IBEW International staff and in 2004 was promoted to Director of the Utility Department. The IBEW has 220,000 members in the Utility branch, which includes electric, gas and water utilities in the United States and Canada.

Mr. Hunter serves on the advisory boards for Carnegie Mellon Institute and on sustainability boards for American Electric Power and Energy Future Holdings. He also served on EPRI's advisory board for eight years.

Mr. Hunter is on the Executive Council for the Center for Energy Workforce Development and is on the Board for the IBEW Utility Training Trust.

Mr. Hunter worked as a subject matter expert to help formulate the IBEW's position on global warming, including working on the Bingaman-Specter, Lieberman-Warner and the Waxman-Markey climate change bills. He also worked on the IBEW/AEP International piece (border adjustments) that was featured in all three bills.

He represented the IBEW at the United Nations climate change conferences in 2008 thru 2014, and served on the EPA Clean Air Act Advisory Committee from 2010 to 2012.

Mr. Hunter is President of Unions for Jobs and Environment Progress (UJEP).



Elizabeth Jacobs, Commissioner, Iowa Utilities Board, and Member, SPP Regional State Committee

Libby Jacobs began serving on the Iowa Utilities Board on May 1, 2011. She was appointed by Governor Terry Branstad to fill a term that runs through April 30, 2017. Additionally, Ms. Jacobs served as Chair of the Board from May 1, 2011 to April 30, 2015.

Commissioner Jacobs is a National Association of Regulatory Utility Commissioners (NARUC) member and serves as Co-Vice Chair of NARUC's Committee on Electricity; on the Subcommittee on Nuclear Issues-Waste Disposal; and the Task Force on Environmental Regulation and Generation. She serves as Immediate Past President of the Organization of MISO States (OMS) and is a member of the OMS Executive Committee. Ms. Jacobs is a voting member on the Eastern Interconnection States Planning Council (EISPC). She serves on the advisory council of the Center for Public Utilities (CPU) at New Mexico State University, the advisory committee of the Critical Consumer Issues Forum (CCIF) and the advisory board of the Financial Research Institute (FRI). Commissioner Jacobs is also a member of the Mid-America Regulatory Conference (MARC) and the Southwest Power Pool (SPP) Regional State Committee.

Prior to joining the Iowa Utilities Board, Ms. Jacobs was president of The Jacobs Group, LLC, a consulting firm specializing in strategic planning, board development, community outreach, and fund development. Previously, she was Director of Community Relations for the Principal Financial Group. In addition, Ms. Jacobs' career includes professional and management-level positions in the telecommunications and non-profit industries.

Commissioner Jacobs served in the Iowa House of Representatives from 1994 to 2008. She was elected by her peers to serve as Majority Whip for seven years. Ms. Jacobs also sat on the Commerce, State Government, and Appropriations Committees.

Commissioner Jacobs has been recognized with several honors, including the 2008 West Des Moines Citizen of the Year, 2008 Drake University Outstanding Master of Public Administration Alumnus Award, 2008 Greater Des Moines Leadership Institute Business Leadership Award, 2005 Iowa Grocers Association Legislative Leadership Award, and the 2001 Des Moines Business Record Woman of Influence.

Ms. Jacobs earned her Bachelor of Arts degree "With Distinction" in political science from the University of Nebraska—Lincoln and a Master's of Public Administration degree from Drake University. She and her husband, Steve, reside in West Des Moines and have two adult daughters.