



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

Des Moines is the third of six regional QER public input meetings, all of which are based on wholesale market footprints as a convenient approach to capturing and assisting the Interagency QER Task Force in understanding the nation's regional electricity diversity, which is also characterized by differing resource mixes, state policies, and a host of other factors. The Des Moines meeting covers the footprint of the twenty states which are, all or in part, in the Southwest Power Pool (SPP) and the Midcontinent Independent System Operator (MISO).

- 8:00 AM **Doors Open**
- 8:30 – 9:30 AM **Opening Remarks by Secretary of Energy Ernest Moniz, Governor Terry Branstad, Lieutenant Governor Kim Reynolds, Mayor T.M. Franklin Cownie, and USDA Rural Development Rural Business-Cooperative Service Administrator Sam Rikkers**
- 9:30 – 10:45 AM **Panel 1
Bulk Power Generation and Transmission: How Can We Plan, Build, and Operate the Appropriate Amount for Future Needs?**

The first panel will speak to the many responsibilities and challenges involved in maintenance and operation of the bulk power system of generation and transmission: The system's role in reliability, including how to maintain reliability with an evolving resource mix; cyber- and physical security; the structure of centrally organized and bilateral wholesale electricity markets; the planning, financing, cost-allocation and state and federal siting processes needed to build new generation and transmission; resource diversity; policies affecting how much, if, and when to build, including reducing greenhouse gas emissions and other environmental impacts; multiple jurisdictions and overlapping regulations; changing load growth patterns; innovation and new technologies; increasing interdependencies; and many more.

- Jeffrey Gust, Vice President, Compliance and Planning and Chief Compliance Officer, MidAmerican Energy Company
- Dean Ellis, Vice President – Regulatory Affairs, Dynegy
- Joshua Mandelbaum, Staff Attorney, Environmental Law & Policy Center
- Tom Heller, Chief Executive Officer, Missouri River Energy Services
- Angela Weber, Commissioner, Indiana Utility Regulatory Commission, and Vice President, Organization of MISO States

10:45 – 12:00 PM

Panel 2

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

The second panel will consider the implications of a broad array of existing and emerging technologies, as well as new uses on the distribution grid and grid-edge, which together provide both technical and policy challenges and opportunities to the delivery of energy services to customers. Among many others, some of these factors affecting the developing distribution grid include: Energy efficiency; demand response; distributed generation; digital communications, sensors and control systems; “smart” meters; greater customer engagement; storage; microgrids; electric vehicles. Additionally, seventeen states and the District of Columbia have adopted some form of electric retail choice programs allowing end-use customers to buy electricity from competitive retail suppliers.

Separately, these factors can be challenging for grid operators. Taken together, these evolving characteristics will tend to have impacts which must figure into the planning, operations, reliability, resiliency, and economics of the distribution grid. These new sets of circumstances raise important questions on infrastructure financing and development, affordability, rate design, appropriate valuation, as well as numerous jurisdictional and regulatory issues. Regardless of the challenges these changes present to industry planners and government regulators, they also can create opportunities for customers to enjoy the benefits of new and improved services and with carbon reduction and other environmental improvements, with services sometimes provided by new market entrants.

- Kenneth Grant, Vice President of Sales and Marketing, Oklahoma Gas & Electric (OG&E)
- Brian Bowen, Regulatory Affairs Manager, FirstFuel
- Nora Naughton, Director of Policy, Midwest Energy Efficiency Alliance (MEEA)
- Becky Bradburn, General Manager, Franklin Rural Electric Cooperative, and Executive Vice President, Prairie Energy Cooperative
- Joel Schmidt, Vice President – Regulatory Affairs, Alliant Energy
- Mark Schuling, Consumer Advocate of the State of Iowa, Iowa Department of Justice

12:00 – 1:00 PM

Lunch

1:00 PM

Remarks by Assistant Secretary for Electricity Delivery and Energy Reliability Patricia Hoffman

1:10 – 2:25 PM

Panel 3

Transmission Development with an Evolving Generation Mix

The nation’s electricity system is experiencing an evolving electric generation mix for a variety of reasons, and that is occurring in the SPP and MISO regions, as well. The rapid changeover underway presents operating challenges to which grid planners and operators are responding. In many areas, electricity load growth remains low, thus reducing the need for new resources. Some areas are seeing growth in local nearby generation or distributed generation, reducing the

need for new transmission. Still other some regions have remote potential resources that could be brought online if both demand grew and necessary transmission infrastructure were in place. Developing new transmission lines can be a lengthy process, sometimes extending to a decade, while many new generation resources today have a much shorter lead time. At the same time, new processes for planning and determining the cost allocation for new transmission under FERC Order No. 1000 are underway.

Both the MISO and SPP regions both are now seeing the installation of previously agreed-upon transmission overlays. This panel will examine all these factors, assessing both the current situation and what can be expected in the coming decades, with a special look at how these projects and policy activities might impact transmission development.

- Jennifer Curran, Vice President, System Planning and Seams Coordination, Midcontinent Independent System Operator, Inc. (MISO)
- Lanny Nickell, Vice President for Engineering, Southwest Power Pool (SPP)
- Sharon Segner, Vice President, Transmission, LS Power Development, LLC
- Carl Huslig, Senior Vice President, Business Development, GridLiance GP, LLC
- Jim Hunter, Director, Utility Department, International Brotherhood of Electrical Workers (IBEW)
- Elizabeth Jacobs, Member, Iowa Utilities Board, and Member, SPP Regional State Committee

2:25 PM

Public Comment Period (“Open Mic”)

Each member of the audience who chooses to speak will be permitted five minutes to speak and offer written materials for inclusion in the QER record. Participants will be asked to sign up to speak when they check in.