



“Transforming to a Smart and Secure Electric Power Grid”

May 18th - 20th, 2011

The Dearborn Inn – Dearborn, Michigan

Hosted by the MICHIGAN PUBLIC SERVICE COMMISSION
with the INSTITUTE OF PUBLIC UTILITIES, MICHIGAN STATE UNIVERSITY

AGENDA

May 17, 2011
5:00 - 7:00 pm

Pre-Registration – Outside Dearborn Ballroom

Wednesday, May 18, 2011

7:30 – 9:00 am

Registration and Breakfast

9:00 – 9:15 am

Introduction and Welcome

The Hon. Orjiakor Isiogu, Chairman, Michigan Public Service Commission

9:15 – 10:00 am

National Policy Developments on Smart Grid

Title XIII of the Energy Independence and Security Act of 2007 (EISA) helped establish our national policy for grid modernization, create new federal advisory committees with defined roles and responsibilities, address accountability and provide incentives for stakeholder investment. In many states, utility companies have taken advantage of federal incentives and piloted smart grid programs. This session will provide an update on the national policy landscape for the smart grid and address emerging issues.

Speaker:

Patricia Hoffman, Assistant Secretary of Energy, Department of Energy

10:00 – 10:30 am

Break

10:30 – 11:45 am

National Standards for Smart Grid

Title XIII of EISA included broad ranging implications for interoperability standards development. The Federal Energy Regulatory Commission (FERC) was directed to initiate a standards rulemaking and the National Institute of Standards and Technology (NIST) was assigned the task of establishing smart grid standards and protocols. NIST created the Smart Grid Interoperability Panel (SGIP) to develop industry consensus among participants in the smart grid marketplace. How are state public utility commissions represented in this process? This session will provide an

update of the NIST standards recommendation process and how states can contribute to on-going standards development.

Speakers:

*The Hon. Paul A. Centolella, Commissioner, Public Utilities Commission of Ohio, Moderator
Wayne Longcore, Chief Solution Manager, SAP, Governance Board Member of the Smart Grid Interoperability Panel*

John McDonald, GE Digital Energy & Governance Board Chair of the Smart Grid Interoperability Panel

George Arnold, National Coordinator Smart Grid Interoperability, National Institute of Standards & Technology

11:45 – 1:00 pm

Lunch with Special Speaker

Paul De Martini, CTO, Cisco Technologies

1:00 – 2:15 pm

Effective Regulatory Policies for Smart Grid

What are the implied regulatory issues related to the advancement of smart grid deployment? Who are the regulatory agencies primarily responsible for smart grid issues? Although individual state policies dominate the electrical industry, federal authority overlaps in areas of electric industry structure, generation adequacy, energy resource mix, transmission siting and cost recovery, and retail electricity prices. This session will explore state and national regulatory issues and concerns that surround smart grid implementation.

Speakers:

The Hon. Phyllis Reha, Commissioner, Minnesota Public Utilities Commission, Moderator

David O'Brien, Director of Regulatory Strategy & Compliance, Bridge Energy Group

Janice Beecher, Ph.D., Director, Institute of Public Utilities, Michigan State University

Paul Feldman, Chairman Emeritus & Current Board Director, Midwest ISO

Richard Sedano, Regulatory Assistance Project

2:15 – 2:45 pm

Break

2:45 – 4:30 pm

Vehicle to Grid Revolution – PEVs and the Smart Grid

Plug-in electric vehicles provide opportunities to diversify our vehicle fleet mix, reduce the use of fossil fuels for vehicle operations, and create market opportunities for vehicle manufacturers and other technology companies. This session will explore the emergence of PEVs and the potential implications and impacts on the national electric grid. A panel of utility, regulatory and auto industry experts will discuss various efforts underway for PEV readiness in the United States.

Speakers:

The Hon. Orjiakor Isiogu, Chairman, Michigan Public Service Commission, Moderator

Kristin Zimmerman, Manager, Advanced Technologies, General Motors

Haukur Asgeirsson, Manager, Power System Technologies, DTE Energy

Kimberly Pargoff, Grid Account Manager, A123 Systems

Gary Gauthier, Director, Business Development, NextEnergy

Erik Kallio, Team Leader, Transportation Energy Security, TARDEC

4:30 pm

Adjourn

6:30 pm

Welcome Reception at the Henry Ford Museum

Thursday, May 19, 2011

7:00 –8:30 am

Breakfast

8:30 – 8:45 am

Introduction and Welcome

The Hon. Orjiakor Isiogu, Chairman, Michigan Public Service Commission

8:45 – 10:00 am

The Role of Smart Meters

Advanced Metering Infrastructure (AMI) and the smart grid are often used as interchangeable terms, which can be misleading, especially to end users. Advocates view AMI and “smart meters” as a crucial component of the smart grid and a potential enabler of other electric distribution improvements down the line. What are the opportunities that smart meters present to end users? Do the benefits justify the costs to consumers? A panel of experts will dive into the potential benefits of smart meters in terms of including two-way communications, dynamic pricing, outage detection, automatic meter activation, disconnection, and other smart meter functions. Emerging policy issues will also be discussed.

Speakers:

Liesl Eichler Clark, Principal, 5 Lakes Energy, Moderator

Ron Chebra, VP, AMI Business Unit, KEMA

Ed Gray, VP Legislative and Regulatory Affairs, Elster Solutions

Dr. Sanem Sergici, Senior Associate, The Brattle Group

Tim Wolf, Director of Marketing, Smart Grid Solutions, Itron

10:00 – 10:30 am

Break

10:30 – 11:45 am

Making the Business Case for Smart Grid – A Utility Perspective

Smart grid deployment has multiple advantages from the utility perspective, including the potential for decreased operating expenses, enhanced customer service, and optimized grid operations. Utilities face the challenge of how best to enhance technology while maintaining reliability and safe infrastructure at a reasonable cost. Utility companies must make a strong business case for their investors. Public utility commissions must consider the prudence of smart grid investments and impacts on consumers. An expert panel of utility representatives will make the business case for smart grid deployment.

Speakers:

Laura Chappelle, Chappelle Consulting, Moderator

Susan Swan, Smart Grid Development, Consumers Energy

Vince Dow, Vice President, Distribution Operations, DTE Energy

Paul Chodak, President & COO, Indiana Michigan Power, AEP

11:45 – 1:00 pm

Lunch with Special Speaker

Michael Tinskey, Manager, Sustainability, Sustainable Business Strategies, Ford Motor Company

1:00 – 2:15 pm

Personal Privacy and the Smart Grid

Personal privacy is a persistent issue in the telecommunications sector and increasingly important in energy as well. Customer understanding and acceptance of smart grid technologies may depend on privacy solutions. Consumers and their advocates have voiced a variety of privacy issues related to smart grid implementation, including collection and management of detailed information. This session will explore privacy and security issues facing utilities when developing and deploying smart grid infrastructure.

Speakers:

The Hon. Susan Ackerman, Commissioner, Oregon Public Utility Commission, Moderator
Matthew McCaffree, Director, Government Affairs, OPower
Karin Hieta, Division of Ratepayers Advocates, California Public Utilities Commission
Lillie Coney, Associate Director, Electric Privacy Information Center
Michael Oldak, VP & General Counsel, Utilities Telecom Council

2:15 – 2:45 pm

Break

2:45 – 4:00 pm

Understanding the Smart Grid and Security Nexus

When digital technologies meet the electricity grid, the resulting energy information is very valuable and potentially vulnerable. It is especially important that this information not become accessible to people intending to do harm, such as disrupting grid operations or pilfering personal information. This panel discussion will serve as a precursor to Day Three of the Symposium ("cyber-security day"), by introducing topics that include the relationship between additional end-points and interconnected networks to cyber security and ideas ensuring adequate cyber security.

Speakers:

James Bradford Ramsay, General Counsel, NARUC, Moderator
Art Maria, Chief Enterprise Architect, AT&T
Raj Vaswani, Chief Technology Officer, Silver Spring Networks
Roy Perry, Director, Strategic Assessment, CableLabs

4:00 – 5:15 pm

Making the Most of the Smart Grid - Customer Education

How valuable is the smart grid if consumers do not understand or accept the need for grid improvements or the potential benefits that a smarter grid might deliver to them over time? Recent consumer opposition to smart grid deployment could be correlated to public information management. This panel session will cover consumer messaging for various technologies, such as automatic controls, intelligent software, and direct controls for adjusting energy usage. Panelists will include representatives from the federal government, community organizations, integrated demand management organizations, and product manufacturers.

Speakers:

The Hon. Robert Kenney, Commissioner, Missouri Public Service Commission, Moderator
Marjorie Isaacson, Center for Neighborhood Technology
Karen Zelmar, Director of IDSM Pricing Products, PG&E
Warwick Stirling, Global Director of Energy and Sustainability, Whirlpool Corporation

5:15 pm

Adjourn

Friday, May 20, 2011

7:30 - 8:30 am

Breakfast

8:30 – 9:45 am

Cyber Security - General Session

The adoption of new information and communications technologies offers considerable advantages but also demands a greater emphasis on cyber security and critical infrastructure protection within both the corporate and government arenas. This session presents an overview of the current cyber-threat landscape, where panelists will offer insight into the challenges faced by government agencies in managing critical systems in this constantly changing environment.

Speakers:

*Michael McDaniel, Director of Homeland Security Law, Thomas M. Cooley Law School,
Former MI Homeland Security Advisor, Moderator*

*Dan Lohrmann, Chief Technology Officer & Deputy Director of Infrastructure Services
Administration for the State of Michigan*

*Dan Mathis, Mission Assurance Division (MAD) Energy Security and Industrial Control Systems
(ICS) Mitigation Programs Manager for the Assistant Secretary of Defense for Homeland
Defense and Americas' Security Affairs*

9:45 – 10:15 am

Break

10:15 – 12:00 pm

Cyber Security for Energy Delivery Systems

This session will highlight the critical importance of energy control systems and the growing challenge of protecting utility systems from physical, cyber, and insider threats. One of the biggest obstacles to cyber security is compliance with NERC's critical infrastructure protection (CIP) standards. These standards include critical asset identification and risk-based asset assessment. This session will explore the impact of NERC CIP and update attendants on the latest developments.

Speakers:

Rilck Noel, Vice President & Managing Global Director, Verizon, Moderator

David Batz, Manager, Cyber & Infrastructure Security, Edison Electric Institute

Erfan Ibrahim, Technical Executive, Electric Power Research Institute

Patrick Miller, President & CEO, EnergySec

Josh Wepman, Manager, Information Technology & Security Group, SAIC, Inc

Noon – 1:00 pm

Lunch

1:00 – 2:00 pm

Smart Grid Interoperability Standards

Under the Energy Independence and Security Act of 2007 (EISA), the National Institute of Standards and Technology (NIST) has primary responsibility for developing an interoperability framework for smart grid devices and systems and ensuring a safe, secure and reliable grid. NIST has released guidelines for smart grid cyber security (NISTIR 7628) and submitted five foundational sets of smart grid interoperability standards to FERC. The Government Accountability Office notes that EISA does not give FERC specific enforcement over smart grid standards. This

session will explore ways for state commissions to consider these standards and ensure smart grid interoperability within their states.

Speakers:

William R. Cloutier Jr., Manager of Smart Grid Interoperability Standards, DTE Energy

Michael Jung, Policy Director, Silver Spring Networks, Moderator

Doug Houseman, VP of Technology Innovation, EnerNex Corporation

2:00 – 2:15 pm

Break

2:15 – 3:30 pm

Emerging Smart Grid Technologies

The development of the smart grid is largely driven by the electric utility industry's investment in information and telecommunications technologies that promise to enhance reliability, lower outage costs, and provide two-way communication between consumers and their utility company. This session will look at trends in the market for smart grid technologies, including communication networks, smart devices and future smart grid applications. Consumer behavioral response to new technologies will also be explored.

Speakers:

Jeff Pillon, Director of Energy Assurance Programs, NASEO, Moderator

Raj Vaswani, Chief Technology Officer, Silver Spring Networks

Arun Sehgal, Engineering Advisor, Itron

3:30 pm

Conference Adjourned