

CONFERENCE-AT-A-GLANCE

TRACK	WATER UTILITY TECHNOLOGY	ADVANCED METERING	CUSTOMER OPERATIONS <i>Sponsored by</i> CSWEEK <small>CONSUMER SERVICE WEEK</small>	DEMAND RESPONSE AND ENERGY EFFICIENCY	DISTRIBUTION AUTOMATION	ENTERPRISE INFORMATION AND ASSET MANAGEMENT
ROOM	215	214C	217B	217A and 216AB	217D	212AB and 216AB

TUESDAY, JAN. 24, 2012

8:30 a.m. - 10:30 a.m.	Keynote Session - Lila Cockrell Theatre					
1:00 p.m. - 2:30 p.m.	The Emerging Smart Grid for Water	Going for the Gold: Polish for the Business Case	Developing the Right Smart Grid Architecture to Support Customer Service	Putting the Focus on Commercial Customers (Room 217A) Creative Innovations: The Key to Getting the Most Out of a Demand Response Program (Room 216AB)	Distribution Voltage Optimization	Asset Strategy and Analytics (Room 212AB)
3:00 p.m. - 4:30 p.m.	Funding and Implementing Energy Efficiency for Water	Real Data, Real Results: A Utility MDM Review	Finding the Customer "Suite Spot"; Leveraging Smart Grid Applications and Business Process for Customer Engagement	Real World, Real Results: Case Studies in Smart Grid Enabled DR and Energy Efficiency (Room 217A)	Utility Case Studies on the Road to Full Smart Grid Implementation	Utility Best Practices in Standards-based Smart Grid Integration and Enterprise Information Management (Room 212AB) Adjusting to the New Distribution World: Process and People Change Management (Room 216AB)

WEDNESDAY, JAN. 25, 2012

7:30 a.m. - 9:00 a.m.	Breakfast Roundtables - Room 006A-D, River Level					
9:30 a.m. - 11:00 a.m.	Smart Water Metering: From Theory to Practice	Not That Easy AMI: Developing Hard to Reach, Opt-out and Opt-in Network Solutions	Earth-shaking, Ground-breaking Distribution Restoration	Engaging the Customer (Room 217A) Demand Response: Standardizing Connectivity (Room 216AB)	Smart Sensors	Asset Management: Strategies and Experiences (Room 212AB)
1:30 p.m. - 3:00 p.m.	Stabilizing and Protecting Your SCADA and Control Systems	Benefits of Energy Monitoring and Automation to Enhance Revenue Protection	Using Demand Response to Create Smart Customers	Providing Pricing and Usable Information to the End Use Customer (Room 217A)	Three Musketeer Utilities' Systems Show Improvements with Volt/VAR Implementation	Integration Practices Using Industry Standards (Room 212AB) Smart Grid Lessons Learned: Utility and Regulator Perspectives (Room 216AB)
3:30 p.m. - 4:30 p.m.	Department of Energy Mega Session - Lila Cockrell Theatre					

THURSDAY, JAN. 26, 2012

7:30 a.m. - 9:00 a.m.	Breakfast Keynote Session - Room 006A-D, River Level					
9:30 a.m. - 11:00 a.m.		Winning Over a Skeptical Consumer	Has Your Utility Found Its "Tweet Spot" Using Social Media?	Just the Facts Man! Field Experience, Knowledge and Research Support Necessary to Implement Smart Grid and DR Programs (Room 217A)	Network Interoperability and Automatic Restoration	Utilities' Smart Grid Programs: Another Year of Progress (Room 212AB) Smart Grid Risk Mitigation (Room 216AB)

KEY: — indicates more than one session offered

■ indicates sessions that may contain presentations of interest to the water industry

GREENING THE GRID	INTERNATIONAL PROJECTS	MOBILE AND GEOSPATIAL SOLUTIONS	SCADA AND NETWORK INFRASTRUCTURE	SMART GRID COMMUNICATIONS TECHNOLOGY	SMART GRID OPERATIONS SOLUTIONS	SUBSTATION AUTOMATION	TRANSMISSION AND LARGE-SCALE RENEWABLES
210B	209	214B	214D	213AB and 211	214A and 211	217C	210A

Technologies that are Transforming the Distribution Grid	Smart Grid International Experiences: Asia/Pacific	GIS as the Foundation for a Smarter Utility	Leveraging SCADA/DMS for Centralized Smart Grid Control	Communications Trends: What's Hot and What's Not (Room 213AB) A Cybersecurity Perspective on Smart Grid Projects (Room 211)	Lessons Learned: Utilities Share Smart Grid Implementation Experiences (Room 214A)	Utility Case Studies: Grid Modernization Takes Shape	Challenges and Risks of Implementing Synchrophasor Operator Decision Support Tools
Wind Power: Distributed Generation Considerations	Smart Grid International Experiences: Europe	Geosystems and the Smart Grid: An Industry Perspective	SCADA Systems: Integrate or Separate?	Getting from the Drawing Board to Operations: A Communications Roadmap - Part 1 (Room 213AB)	Leveraging Data Acquisition to Improve Grid Operations (Room 214A)	Physical and Cybersecurity Strategies for Transmission, Distribution and Wind Automated Systems	The Complexities of Protecting, Modeling and Networking the Grid - Challenges with Solutions

Energy Storage: Is it Essential for Large-scale Renewable Integration?	Smart Grid International Experiences: Americas	Mobile Work and Mapping for Outage Restoration	Distributed Network Protocol (DNP3) Standards and Enhancements for Smart Grid Applications	Getting from the Drawing Board to Operations: A Communications Roadmap - Part 2 (Room 213AB)	Smart Grid Implementation: Utilities Share Deployment Experiences and Solutions (Room 214A) Smart Grid Architecture: Considerations for the Future (Room 211)	Reliability Improvement through Substation Automation	Integrating Renewable Energy Sources with Transmission and Distribution Grids
Integrating Utility-scale Solar PV Systems: A Blueprint for Success	International Experiences with Advanced Automation	Trends in Utility GIS and Mobility	Let's Talk Securely About Cybersecurity	Lessons from the Field: Utilities Share AMI Communications Experiences (Room 213AB)	You Gathered the Data, Now How Do You Generate Value From It? (Room 214A)	The Future of Substation Automation: Industry Trends, Linking Standards, IP Communications and Lessons Learned in Applying Process Bus	Real-world Technology and Operating Experience in Wind Power Integration

Plug-in Electric Vehicle Charging, Load Forecasting and System Impacts	International Experiences with Customer Information and Applications	A Bright Idea: Enterprise Asset Management for the Lighting Lifecycle: Two Utilities' Case Studies	Messaging: Moving Smart Grid Data	Mr. NISTR: What's Happening with Standards? (Room 213AB)	Smart Grid Architecture: A Holistic Approach (Room 214A)	Implementing High-availability IP Networks While Leveraging Legacy Infrastructure in the Substation	Optimizing Distributed Generation Integration through Smart Technologies
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CONFERENCE DETAILS

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

WATER UTILITY TECHNOLOGY, ROOM 215

The Emerging Smart Grid for Water - PANEL

Session Moderator: Angela Godwin, Digital Media Editor, *WaterWorld*

Panel Moderator: Mike Tracy, Executive Vice President, North America, Sensus

As population growth, urbanization and climate change deplete global fresh water supplies, there is a critical need to reduce our global water footprint. Smart metering and communication networking technologies associated with the smart grid make this goal attainable. In this panel, representatives from three water utilities will discuss why they invested in the emerging smart grid for water and the benefits, such as improved system efficiency and reliability, cost reductions, leak detection and improved customer service.

Panelists: Leland Cable, Water and Wastewater Superintendent, Garden City, Kansas
Karen Mills, Finance Director, Town of Cary, N.C.
Shannon Sweeney, Water Resources Manager, City of Santa Maria

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

ADVANCED METERING, ROOM 214C

Going for the Gold: Polish for the Business Case

Session Moderator: Ralph Abbott, Founder, Plexus Research Inc., SAIC, Global Smart Grid Services

This session dissects the challenges and opportunities in justifying advanced metering and AMI. Of course, all utilities are not created equal. Needs are different. Benefits are found in unusual places. We will examine these differences and common opportunities to include partial deployments, gas-only justifications and the broad spectrum of applications and services possible.

The Benefits of Smart Meters

Speaker: Lisa Wood, Institute for Electric Efficiency
Co-author(s): Ahmad Faruqui, Brattle Group

Targeted Deployment Business Case

Speaker: Francis Perio, Entergy Services Inc.

The Business Case for North America's Only Fully Integrated Meter-to-Consumer AMI System Used by a Natural Gas-only Utility

Speaker: Patrick Petersilia, Southern California Gas Co.
Co-author(s): Nancy Rich, Aclara

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

CUSTOMER OPERATIONS, ROOM 217B

Developing the Right Smart Grid Architecture to Support Customer Service - PANEL

Panel Moderator: David Elve, Vice President, Sensus

To deliver customer benefits, the smart grid needs the right architecture and design. Utility panelists will discuss how they designed smart grid projects to support customer service and engagement. The best designs include a standards-based architecture for interoperability. This huge utility challenge must be transparent to customers. Topics to be discussed include smart metering, distribution management systems, IT, meter data management, distribution automation and GIS.

Panelists: Scott Oswald, Enterprise Architect, Seattle City Light
Rick Potter, Principal Smart Grid Technology Consultant, Alliant Energy
Glenn Pritchard, Principal Engineer, PECO
Gary Smith, Director, Customer Energy Solutions, NV Energy Inc.

CONFERENCE DETAILS

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 217A

Putting the Focus on Commercial Customers

Session Moderator: Elliot Boardman, Executive Director, Peak Load Management Alliance

This session will address automated demand response in commercial buildings, the U.S. Green Building Council's effort to include demand response for LEED certification and the views of an organization that manages more than \$2 billion in annual energy spend at more than 30,000 locations.

Automated Demand Response Roundtable: A Simple, Customized Customer Focused Approach to Peak Load Reduction

Speaker: Clay Collier, Akuacom
Co-author(s): Michael Richardson, Honeywell

DR Market Transformation in Commercial Buildings

Speaker: Peter Weigand, Skipping Stone LLC
Co-author(s): Brendan Owens, U.S. Green Building Council

Enterprise-Wide Energy Management Trend is Lowering Stress on Utility Infrastructure

Speaker: George Huettel, Ecova

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 216AB

Creative Innovations:

The Key to Getting the Most out of a Demand Response Program

Session Moderator: Dick Preston, Director, MW Consulting Corp.

Using innovative, cost-effective communications for two-way demand response and using the distribution system to optimize demand response decreases kilowatt demand without affecting customers. Learn how CPS Energy is achieving a system-wide demand response program to reduce kilowatt load and monitoring each load in near real-time and how PECO Energy utilities and Clinton Utility Board are achieving load reduction through a cost-effective distribution managed voltage-reduction program.

Case Study: CPS Energy's Demand Response Program of the Future

Speaker: Elaina Ball, CPS Energy
Co-author(s): Roy Moore, Consert Inc.

Demand Response Through Voltage Regulation

Speaker: Todd Loggins, Clinton Utilities Board
Co-author(s): Ryan Hager, Aclara

Conservation Voltage Reduction: What are the Savings?

Speaker: Frank Stern, Navigant
Co-author(s): Bill Golemboski, Itron
Marc Sanchez, PECO Energy

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Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

DISTRIBUTION AUTOMATION, ROOM 217D

Distribution Voltage Optimization - PANEL

Session Moderator: Carl Goeckeler, Consulting Engineer, Kansas City Power & Light Co.

Panel Moderator: Robert Uluski, Technical Executive, EPRI

Volt-VAR control (VVC) is not a new concept and is an integral operational component of a utility's basic distribution design objectives. To meet increasing system efficiency demands, VVC has evolved into Volt-VAR optimization (VVO) with expanded objectives to increase overall efficiency, reduce demand, promote energy conservation and improve power quality. Panelists will review and discuss the decision points and challenges facing electric distribution utilities seeking to deploy distribution VVO systems.

Panelists: Jim Lemke, Consulting Engineer, Duke Energy
Cheong Siew, Senior Strategic Planning Leader, Distribution Planning, Asset Investment Management, T&D, BC Hydro
Paul Thomas, AEP Grid Management Deployment Supervisor, American Electric Power
Chad Nickell, Distribution System Planning Engineer, Xcel Energy

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 212AB

Asset Strategy and Analytics

Session Moderator: Hahn Tram, V.P. Enterprise Solutions, Quanta Technology

Increasing amounts of data are becoming available as utilities' smart grid deployments progress. Data mining and analytics are essential to the utilities' achievement of enterprise benefits from these technology investments. This session presents using advanced analytics in the utility of the future, a utility case study of analytics applications in asset investment planning, and a utility case study of analytics applications in asset maintenance.

Using Advanced Business Analytics to Run the Utility of the Future

Speaker: Carlos Romero, SAS
Co-author(s): Alyssa Farrell, SAS

Distribution Asset & Investment Management: Optimization of Reliability Capital Expenditures

Speaker: Catherine Tajmajer, Connecticut Light & Power

Risk-based Decision Support Tool Used to Justify System Interventions

Speaker: Robert Otal, Toronto Hydro
Co-author(s): Darin Johnson, BIS Consulting LLC

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Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

GREENING THE GRID, ROOM 210B

Technologies that are Transforming the Distribution Grid

Session Moderator: Terry Nielsen, Senior Vice President, UISOL, an Alstom company

Numerous grid technologies are transformational in the design of distribution systems. Many are designed to address issues created by new renewable and green grid resources. This session addresses three of those issues: microgrids, PMU synchrophasors and next-generation distribution transformers.

Three Homes and a Transformer: The Transformation of Residential Neighborhoods

Speaker: Doug Houseman, EnerNex

Microgrid Management Strategy that Combines Distributed Advanced Distribution Management System and Substation Automation Architecture

Speaker: Bradley Williams, Oracle Utilities

Co-author(s): Kevin Costin, Oracle

Vic Romero, San Diego Gas & Electric

Real-time Use of PMU Synchrophasor Data for Microgrid Control and Operations

Speaker: Byron Washom, University of California-San Diego

Co-author(s): Chuck Wells, OSIsoft LLC

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

INTERNATIONAL PROJECTS, ROOM 209

Smart Grid International Experiences: Asia/Pacific - PANEL

Panel Moderator: ML Chan, President, ML Consulting Group

Smart grid demonstrations and deployments around the world are contributing to the advancements of smart distribution technologies, interoperability standards and infrastructure requirements. These projects have different drivers, objectives and benefits, as well as implemented technologies (e.g., advanced metering infrastructure, advanced automation, distributed generation, electric vehicles, renewable energy generation, etc.). The projects are identifying gaps and solutions for future projects throughout the world. Panelists will present smart grid projects at different levels and scales of deployment that cover overall objectives and drivers, technologies, lessons learned and benefits.

Panelists: Cusco Lee, Senior Research Engineer, LS Industrial Systems Co. Ltd., Korea

Irina Popescu, Smart Grid Technical Solutions Director, GE Energy, Australia

Wanxing Sheng, Director of Power Distribution/Utilization and Rural Electrification Dept., China Electric Power Research Institute, China

Yimin Wang, Director General, Dept. of Smart Grid, State Grid Corporation of China, China

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Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

MOBILE AND GEOSPATIAL SOLUTIONS, ROOM 214B

GIS as the Foundation for a Smarter Utility

Session Moderator: Tim Epp, IT Business Consultant, Snohomish County PUD

As smart grid applications make their way into utilities, geospatial information systems (GIS) continue to be recognized as a foundational system to support those applications. This session includes presentations on GIS implementation, the data quality needed from GIS for effective use in other systems, and the advances in geospatial technologies supporting the strategic role of GIS in utilities.

EPCOR's GIS Replacement Project: From Drafting to GIS - A Giant Leap in the Smart Grid Direction

Speaker: Jennifer Rolph, EPCOR
Co-author(s): Bryan Chambers, GE Energy

How Good Does My Data Have To Be?

Speaker: Robert Sarfi, Boreas Group LLC
Co-author(s): Baker Lyon, Boreas Group LLC
Thomas Mitchell, Public Service of New Hampshire

Spatially Enabling Utility Senior Management

Speaker: William Meehan, ESRI

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

SCADA AND NETWORK INFRASTRUCTURE, ROOM 214D

Leveraging SCADA/DMS for Centralized Smart Grid Control

Session Moderator: Allen Skopp, Executive Consultant, Business Development, Open Systems International Inc.

Smart grid networks need control of a myriad of field devices if they are to return the benefits expected from advanced applications in new distribution management systems (DMS). Through automatization and optimization of the network, these DMS applications—fault location, isolation and service restoration (FLISR), volt/VAR optimization (VVO), etc.—are expected to provide new tools that will improve distribution operations. This session will focus on field device integration with the advanced applications to achieve oversight and coordination of interacting automation schemes.

Managing Real-time Closed Loop Control with Advanced DMS

Speaker: Michael Johnson, Progress Energy Carolina
Co-author(s): Dragan Popovic, Telvent

Distribution Management Systems Applications: A Paradigm Shift in Distribution Operations

Speaker: Scott Milanowski, Oklahoma Gas & Electric
Co-author(s): Rafael Ochoa, The Structure Group
Michael Williams, PECO

Enhancing Snohomish Public Utilities No. 1 Grid Operations and Reliability Using an Integrated Distribution Management System

Speaker: Will Odell, Snohomish County PUD
Co-author(s): Avnaesh Jayantilal, Alstom Grid
Marc Rosson, Snohomish County PUD

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Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 213AB

Communication Trends: What's Hot and What's Not

Session Moderator: Ron Chebra, V.P. AMI Business Unit, KEMA

As smart grid implementations at utilities evolve, trends are beginning to emerge. This session will present these trends as seen from three areas: research, legal and telecom.

Global Outlook for Smart Grid and Supporting Communications Infrastructure: Trends and Investments: 2011-2015

Speaker: Charles Newton, Newton-Evans Research Company

Wireless Spectrum Availability for Smart Grid Applications

Speaker: Greg Kunkle, Keller and Heckman LLP

Co-author(s): Doug Jarrett, Keller and Heckman LLP

Managing Your Smart Grid Communications Network with Spreadsheets Will Not Scale

Speaker: Ray Bariso, Telcordia

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 211

A Cybersecurity Perspective on Smart Grid Projects - PANEL

Session Moderator: Richard Wernsing, Manager Electric Asset Strategy, Public Service Electric and Gas Company

Panel Moderator: Annabelle Lee, Technical Executive, Cyber Security, EPRI

This panel session will discuss how utilities are grappling with securing smart grid communications.

Panelists: Stephen Chasko, Principal Security Engineer, Landis+Gyr
Randy Farmer, Principal Cyber Architect, Lockheed Martin
Galen Rasche, Technical Executive, EPRI

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 214A

Lessons Learned: Utilities Share Smart Grid Implementation Experiences

Session Moderator: Paul Yarka, Partner, Accenture Smart Grid Services

CenterPoint Energy, Oncor, and Long Island Power Authority (LIPA) will present their smart grid implementation experiences with a range of solutions and technologies in this session. CenterPoint will discuss experiences associated with its advanced distribution management system implementation. Oncor will highlight its smart grid applied systems program. And, LIPA will communicate lessons learned with respect to integrated smart grid control center visualization.

Implementation of the Intelligent Grid at CenterPoint Energy

Speaker: Walter Bartel, CenterPoint Energy

Co-author(s): Martin Bass, Ventyx, an ABB company

Oncor's Smart Grid Applied Systems Program

Speaker: Phillip McCrory, Oncor Electric Delivery

Co-author(s): Jeff Walz, Siemens

Advanced Visualization in an Integrated Smart Grid Control Center

Speaker: Predrag Vujovic, Long Island Power Authority

Co-author(s): Gary Ockwell, Efacec ACS
Robert Rowe, National Grid

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Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

SUBSTATION AUTOMATION, ROOM 217C

Utility Case Studies: Grid Modernization Takes Shape

Session Moderator: Dean Craig, Project Specialist Engineer, ENMAX Power Corporation

Utilities are navigating a complex sea of evolving technologies, standards and increasingly rigorous security and reporting requirements. This session describes three utilities' modernization programs that incorporated new technologies and applications into their substations to improve the visibility, efficiency and reliability of their systems.

Successful Grid Automation Strategies Combine Substation and Distribution Automation Projects

Speaker: Ken Couture, Green Mountain Power

Co-author(s): Keith Kerzel, SAIC

Substation HMI at BC Hydro: Past, Present and Future

Speaker: Dale Bromley, BC Hydro

Co-author(s): Riley Kotchorek, ASAT Solutions Inc.

Manford Kwan, ASAT Solutions Inc.

Dennis Wong, ASAT Solutions Inc.

Sheldon Yaworski, BC Hydro

Advanced Substation Management at Snohomish County PUD

Speaker: Wojtek Czyz, SUBNET Solutions Inc.

Co-author(s): Chris Fate, Snohomish County PUD

Marc Rosson, Snohomish County PUD

Jason Zyskowski, Snohomish County PUD

Tuesday, Jan. 24, 1:00 p.m. - 2:30 p.m.

TRANSMISSION AND LARGE-SCALE RENEWABLES, ROOM 210A

Challenges and Risks of Implementing Synchrophasor Operator Decision Support Tools - PANEL

Session Moderator: Raj Nayar, Business Segment Manager, Disconnect Switch Products, Siemens Energy Inc.

Panel Moderator: Floyd Galvan, Program Manager, DOE Phasor Project, Entergy Services

The integration of phasor measurements into the electric utility industry has brought about new ways of analyzing and understanding the grid. The increased abilities of these tools, their outputs, data storage requirements and real-time sharing across the wide area have brought with them significant challenges and risks. This panel will set the benchmark for the integration of new synchrophasor analytics within the national grid.

Panelists: Lynda McGhie, Smart Grid Cyber Security Practice Lead, SAIC

Liang Min, Senior Project Manager, EPRI

Mark Thomas, Manager Transmission Security Coordination, Entergy Services Inc.

Mani Vaithianathan Venkatasubramanian, Professor, School of EECS, Washington State University

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Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

WATER UTILITY TECHNOLOGY, ROOM 215

Funding and Implementing Energy Efficiency in Water

Session Moderator: Thomas Neary, President, OpCon Technologies Inc.

As the largest collective users of energy, water utilities increasingly are looking to operate more efficiently. In this session, presenters will discuss the water sustainability landscape, ways to fund water efficiency initiatives and how one water utility used hourly load-reduction strategies to curb energy usage drastically.

Performance Contracts Help Water Utilities Afford Energy-saving Upgrades

Speaker: Lee Ferrell, Schneider Electric

Getting Paid for Saving Money: Energy Efficiency Funding for the Water Industry

Speaker: Jonathan Gledhill, Policy Navigation Group

Best Practices in Estimating Demand Impacts of Utility Irrigation Demand Response Programs

Speaker: James Stewart, The Cadmus Group Inc.

Co-author(s): Mark Lesiw, The Cadmus Group Inc.

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

ADVANCED METERING, ROOM 214C

Real Data, Real Results: A Utility MDM Review

Session Moderator: Matt Oja, Vice President and Client Delivery Executive, Silver Spring Networks

Three leading utilities present their meter data management program results. Learn how they turned billions of bits into actionable knowledge.

Salt River Project Case Study: Successes in MDMS and the Utility Back Office

Speaker: Amy Erwin, Salt River Project

Co-author(s): Claude Godin, EnergyICT Inc.

Implementing Meter Data Management Systems for the Smart Grid

Speaker: Jon Pettit, Oncor

Co-author(s): Jack Hughes, Ecologic Analytics

Florida Power & Light - Realizing Value from Their MDM Solution While Lowering the Total Cost of Ownership (TCO) by Focusing on Performance Improvements and Savings in IT

Speaker: Daniel Lizano, IT Business Solutions Group Manager, Florida Power & Light

Co-author(s): Amit Grover, IT Business Solutions Manager, Florida Power & Light
Ray King, Utilities Industry Market Development Manager, Microsoft

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Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

CUSTOMER OPERATIONS, ROOM 217B

Finding the Customer "Suite Spot": Leveraging Smart Grid Applications and Business Processes for Customer Engagement - PANEL

Panel Moderator: David Elve, Vice President, Sensus

Customer service leaders at several IOUs will discuss how they use smart grid applications and new business processes to better manage interaction with customers. Utilities are updating their CIS systems and integrating new smart meters, distribution and energy management systems, meter data management applications and customer portals. These executives will describe how their companies use their entire portfolios of these systems and processes to support customer service departments. Examples of uses could include customer energy information to manage energy usage, service outage and restoration and other future customer-related services.

Panelists: Mark Alden, Vice President, Customer Operations, PECO Energy
Bruce Carpenter, Vice President, Distribution Services, Portland General Electric
Charles Dickerson, Vice President, Customer Care, Pepco Holdings Inc.
Christopher Schein, Senior Director, Communications, Oncor

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 217A

Real World, Real Results: Case Studies in Smart Grid Enabled DR and Energy Efficiency

Session Moderator: Bob Donaldson, Manager - Demand Response, Progress Energy Carolinas Inc.

Utilities will share their experiences, results and lessons from several diverse demand response and energy efficiency programs and pilots. They will address the impacts of enabling technologies, dynamic pricing rates and consumer education programs and the value proposition they offer when integrated for demand side management.

OG&E's Smart Study TOGETHER: Impact Assessment of Enabling Technologies and Dynamic Pricing Rates

Speaker: Katie Chiccarelli, Oklahoma Gas & Electric
Co-author(s): Craig Williamson, Global Energy Partners, an EnerNOC company

New Wave in Hawaii's Energy Efficiency Initiatives

Speaker: Thomas Griffin, SAIC Energy, Environment & Infrastructure LLC

Detroit Edison's Smart Grid Roadmap: Results, Challenges and Lessons Learned in Demand Side Management

Speaker: Anant Venkateswaran, GE Energy
Co-author(s): Joshua Hoepner, Detroit Edison
Shaun Summerville, Detroit Edison

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Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

DISTRIBUTION AUTOMATION, ROOM 217D

Utility Case Studies on the Road to Full Smart Grid Implementation

Session Moderator: Dean Mueller, Division Manager, Sustainable Energy and Environmental Stewardship, Omaha Public Power District

This session will explore three utility case studies at different points along the road to full smart grid implementation. Presenters will discuss incremental steps along the smart grid path and what a full utility smart grid implementation would look like.

Distribution Automation: The Next Step in the Smart Grid Plan at PPL Electric Utilities

Speaker: Michael Godorov, PPL Electric Utilities

Co-author(s): Timothy Figura, PPL Electric Utilities

Lessons Learned from a Distribution System Demand Response Implementation

Speaker: Robert (Bobby) Simpson, Progress Energy Carolinas

Co-author(s): Don Mak, IBM Global Business Services

OPPD Comprehensive Utility-wide Smart Grid Evaluation and Implementation Roadmap

Speaker: Aaron Smith, Omaha Public Power District (OPPD)

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 212AB

Utility Best Practices in Standards-based Smart Grid Integration and Enterprise Information Management - PANEL

Panel Moderator: Bradley Williams, V.P. Industry Strategy, Oracle Utilities

Utility panelists will describe what the most advanced utilities are doing with IEC TC57 Common Information Model (CIM) to streamline enterprise information management, service-oriented architecture (SOA) and standards-based integration projects. Panelists also will present problems that come with having to implement CIM and will discuss best practices.

Panelists: Matthew Gillmore, Director, Enterprise Architecture & Standards, Consumers Energy

Dean Hengst, Manager IT, ComEd, an Exelon company

Chris Knudsen, Director, Technology Innovation Center, Pacific Gas & Electric

William Maxwell, Software Component Architect, Sempra Utilities

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Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 216AB

Adjusting to the New Distribution World: Process and People Change Management

Session Moderator: Joe Zerdin, Manager, Distribution Planning, Hydro One

More than ever, the distribution world is experiencing demands in information not seen before. This session will focus on the nontechnical implementation of advanced technology to the distribution system. This session will focus on what utilities will need: reviews of existing practices, new training requirements and successful change management strategies.

Distribution Automation: A Critical Review of Current Practices and Formulation of a Holistic Strategy

Speaker: Milan Prpic, BC Hydro
Co-author(s): Valentina Dabic, BC Hydro
Hahn Tram, Quanta Technology

Training the Smart Grid Workforce: Needs and Solutions

Speaker: Jack Winter, West Monroe Partners

Change Management: More Than Just Communications and Training

Speaker: Lisa Hahn, Quanta Technology
Co-author(s): Rick Potter, Alliant Energy

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

GREENING THE GRID, ROOM 210B

Wind Power: Distributed Generation Considerations

Session Moderator: Justin Kaster, Principal, Cherry Tree & Associates LLC

Renewable energy sources will continue to increase in importance as energy generators seek to meet aggressive renewable portfolio standards (RPSs). Wind power will be the go-to source for meeting many RPSs on distribution feeders. Distributed generation presents issues to consider including intermittency, costs, site locations and impacts on distribution systems. This session will address these issues.

Impact of Wind Power Generation on Distribution Systems

Speaker: Charles Mozina, Beckwith Electric Co.

The Smart Grid and Wind Power Location – Unlocking the Value in Variability

Speaker: Matt Dinsmore, Altman Vilandrie and Co.

Wind Turbine Reactive Power Control for Distribution Voltage Management Coordination

Speaker: Mark McGranaghan, EPRI
Co-author(s): Paul Cuffe, University College, Dublin, Ireland
Andrew Keane, University College, Dublin, Ireland
Jeff Smith, EPRI

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Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

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INTERNATIONAL PROJECTS, ROOM 209

Smart Grid International Experiences: Europe - PANEL

Panel Moderator: Heiko Englert, Head of Standardization and Regulation Management, Siemens AG, Energy Automation, Germany

Smart grid demonstrations and deployments around the world are contributing to the advancements of smart distribution technologies, interoperability standards and infrastructure requirements. These projects have different drivers, objectives and benefits, as well as implemented technologies (e.g., advanced metering infrastructure, advanced automation, distributed generation, electric vehicles, renewable energy generation, etc.). The projects are identifying gaps and solutions for future projects throughout the world. Panelists will present smart grid projects at different levels and scales of deployment that cover overall objectives and drivers, technologies, lessons learned and benefits.

Panelists: Christoph Brunner, President, it4power, Switzerland
Albert Fischer, Managing Director, Yellow&Blue Investment Management, Netherlands
Jagabondhu Hazra, Researcher, IBM India, India
Eric Lambéert, Project Manager, Smart Grid Standards Expert, EDF R&D Measurements & Info. Sys. of Elec., France

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

MOBILE AND GEOSPATIAL SOLUTIONS, ROOM 214B

Geosystems and the Smart Grid: An Industry Perspective - PANEL

Session Moderator: Damon Dougherty, Principal, Industry Solutions Practice - Utilities, AT&T

Panel Moderator: Paul Wilson, Market Segment Leader, GE Energy

During this panel session, geospatial information systems (GIS) experts representing leading GIS vendors will discuss how GIS technology has evolved to become a key to planning and operating tomorrow's smart grid. The panel will examine how GIS technology can represent the smart grid as an interconnected system: the physical electrical network and the information network that supports it.

Panelists: Tony DiMarco, Executive Director, Global Utilities & Communications, Intergraph
William Meehan, Director, Utility Solutions, ESRI
Geoff Zeiss, Director Utility Industry Program, Autodesk Inc.

CONFERENCE DETAILS

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

SCADA AND NETWORK INFRASTRUCTURE, ROOM 214D

SCADA Systems: Integrate or Separate?

Session Moderator: James Evans, Executive Consultant, The St. Claire Group LLC

When it's time to replace or upgrade a supervisory control and data acquisition (SCADA)/distribution management system (DMS), a careful review of data flow and operation likely will lead to a different architecture. It might be time to separate distribution from transmission. Or, it might be advantageous to bring some distribution into transmission. Or, bring in a freestanding outage management system (OMS). This session shows how utilities have reached solutions.

Integrated Distribution Operations Systems at CPS Energy

Speaker: Tommy Ross, CPS Energy
Co-author(s): Tim Taylor, Ventyx

Real-time Monitoring and Control for Integrated Smart Grid Building Automation

Speaker: Thurston Brooks, 3e Technologies International

Implementation of Distribution SCADA and Separation from Existing Transmission SCADA at Progress Energy Florida

Speaker: Lisa Lohss, Progress Energy Florida
Co-author(s): Claude Pitts, Progress Energy Florida

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 213AB

Getting from the Drawing Board to Operations: A Communications Roadmap - Part 1

Session Moderator: Ross Malme, Partner, Skipping Stone

Utilities will present their smart grid communication projects.

Southern California Edison Communication Architecture for Smart Grid

Speaker: Howard Liu, Southern California Edison

Modeling the Smart Grid Communications Network

Speaker: Larry Butts, Southern Co.
Co-author(s): Vaibhav Parmar, Accenture

Proven Smart Grid Communication Solutions: How to Architect, Build, and Operate a Highly Available Communication Network for the Smart Grid

Speaker: Chuck Hackney, CenterPoint Energy
Co-author(s): Thomas Yang, IBM

CONFERENCE DETAILS

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 214A

Leveraging Data Acquisition to Improve Grid Operations

Session Moderator: Otto Marquardt, Manager Electric Distribution Engineering, Wisconsin Public Service Corporation

Technology advances have enabled many devices along the utility distribution system to provide near real-time data for improved grid operations. Legacy systems often have been overlooked as a valuable input as a way to improve real-time operations. This session will focus on utility case studies that have leveraged real-time distribution and legacy data to improve grid operations.

From Above and Below: Two Approaches to Enhanced Distribution System Situational Awareness

Speaker: Peter Evans, New Power Technologies

Co-author(s): David Martinez, Southern California Edison

Harnessing the Smart Grid Data Tsunami and Making Smarter Outage Predictions

Speaker: Bill Mintz, Alabama Power, a Southern company

Co-author(s): Jian Fu, Alstom Grid Inc.

Alan Karlak, Alstom Grid Inc.

Brajesh Kumar, Alstom Grid Inc.

Ethan Boardman, Alstom Grid Inc.

A Living Laboratory: The Successful Microgrid at UCSD as a Platform for New Energy Innovation

Speaker: Byron Washom, University of California-San Diego

Co-author(s): Ann Moore, OSIssoft LLC

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

SUBSTATION AUTOMATION, ROOM 217C

Physical and Cybersecurity Strategies for Transmission, Distribution and Wind Automation Systems

Session Moderator: Ameen Hamdon, President, SUBNET Solutions Inc.

As a result of the North American Electric Reliability Corp. (NERC) critical infrastructure protection (CIP) industry standards and National Institute of Standards and Technology (NIST) security initiatives, utilities have focused many years on cybersecurity. Security has become a fundamental, critical aspect for how utilities design their automation systems. This session details industry strategies for integrating enhanced physical and cybersecurity solutions for automation systems including transmission, distribution and wind. Hear about challenges that prompted these initiatives and how they were resolved, lessons learned and results.

Cyber Security Strategy for Distribution Management Systems

Speaker: Michael Watson, Oklahoma Gas & Electric

Co-author(s): David McLain, The Structure Group

Case Study: Delivering Physical Security and Substation Automation over a Unified IP Network

Speaker: Keske Toyofuku, First Wind

Co-author(s): Bradley Tips, Cisco

Cybersecurity Development Activities

Speaker: John Stewart, Tennessee Valley Authority

Tuesday, Jan. 24, 3:00 p.m. - 4:30 p.m.

TRANSMISSION AND LARGE-SCALE RENEWABLES, ROOM 210A

The Complexities of Protecting Modeling and Networking the Grid: Challenges with Solutions

Session Moderator: Ed Schnell, Director Transmission Dispatching, AEP

The technical challenges and complexities of planning, engineering and operating today's transmission system require one to apply tools to develop reliable, practical solutions. This session will present recent applications and demonstrations of several evolving technologies.

Networking for Synchrophasors Using Standard Protocols and Equipment

Speaker: Jeffrey Taft, Cisco

Advanced P&C Applications using Broadband Power Line Carrier (BPLC)

Speaker: Nachum Sadan, Amperion

Co-author(s): Mark Majka, AEP
Bruce Renz, Renz Consulting

500kV Independent Pole Tripping Breaker Failure Protection: An Application of Dual Timer Scheme for Short Critical Clearing Time

Speaker: Vinh Duong, ABB Inc.

Co-author(s): John Elmore, Power Grid Engineering LLC
Jorge Pardo, Progress Energy

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

WATER UTILITY TECHNOLOGY, ROOM 215

Smart Water Metering: From Theory to Practice

Session Moderator: Gary Wong, Global Water Industry Executive, OSIsoft LLC

Advanced metering infrastructure is changing the landscape of water utility management by giving water utilities better visibility into critical operational data. In this session, presenters will look at smart water metering from three perspectives: the potential of proactive analytics, innovative implementation strategies and a real-world example of how smart metering helped one utility boost water conservation efforts.

Proactive Utility Analytics with Advanced Metering Analytics (AMA)

Speaker: Morrice Blackwell, Badger Meter

Getting Smart with Water: Leveraging Existing Smart Grid Infrastructure for Advanced Water Metering

Speaker: David Whitehouse, Peterborough Utilities

Leveraging Electric, Gas and Water Interval Data to Ensure Enhanced Levels of Customer Service

Speaker: Robb Emehiser, Itron

CONFERENCE DETAILS

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

ADVANCED METERING, ROOM 214C

Not That Easy AMI: Developing Hard to Reach Opt-out and Opt-in Network Solutions

Session Moderator: Tim Wolf, Director of Marketing Communications, North America/Latin America, Itron

This session discusses AMI implementation challenges for meters in rural and dense urban locations and the network design impacts of letting customers opt-out after mass deployment or opt-in ahead of mass deployment. This session brings together major utilities with significant deployment experience and challenges.

Edison SmartConnect's Strategy for "No Meter Left Behind": The 2% Solution

Speaker: John Bubb, SCE

Building an AMI Network to Reach All Customers

Speaker: Glenn Pritchard, PECO

Addressing Urban PG&E's Downtown SF Deployment

Speaker: Eric Schoenman, Pacific Gas & Electric Co.

Co-author(s): Daniel Partridge, Sentient Energy

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

CUSTOMER OPERATIONS, ROOM 217B

Earth-shaking, Ground-breaking Distribution Restoration - PANEL

Session Moderator: Kristen Wright, Senior Editor, *Electric Light & Power*

Panel Moderator: Ethan Boardman, Director Business Development – IDMS, Alstom Grid Inc.

Utilities around the world have weathered Mother Nature's wrath and are rebuilding infrastructure and systems. Panelists from hard-hit regions will recount recent catastrophes, the effects on local residents, commerce, infrastructure and systems, and what efforts and technologies are helping them rebuild.

Panelists: Hiroshi Asano, Director, Central Research Institute of Elect. Power Ind., Japan
Bill Mintz, Manager Distribution Management Systems, Alabama Power, a Southern company
Robert Uluski, Technical Executive, EPRI

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 217A

Engaging the Customer

Session Moderator: Robert Duval, Director, Program Administration, Comverge Inc.

This session will focus on customers' role in implementing demand response and energy efficiency programs. The session will explore providing customers with tools such as in-home displays, intelligent energy management tools and whole-house monitoring systems.

Can Home Area Networks Affect Consumer Energy Behavior?

Speaker: David Blewett, PPL Electric Utilities

Co-author(s): David Steidtmann, Aclara

Emerging Business Models for Energy Efficiency and Demand Response

Speaker: Mei Shibata, ThinkEco Inc.

Co-author(s): Rebecca Craft, Con Edison

Patrick James, TXU Energy

Automating Customer Empowerment

Speaker: Drema Hughes, Tampa Electric Co.

Co-author(s): Bud Vos, Comverge

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 216AB

Demand Response: Standardizing Connectivity - PANEL

Session Moderator: Sharelynn Moore, Sr. Director, Corporate Marketing, Itron

Panel Moderator: Jon Rappaport, Chairman, USNAP Alliance

Appliances, thermostats, in-home displays and energy management systems must be able to communicate with a home-area network using a protocol-agnostic interface. Panelists will discuss the use of modular devices that will work with ZigBee, Wi-Fi, Z-Wave, FM radio, cellular networks and other communication options.

Panelists: Conrad Eustis, Director, Retail Technology Development, Portland General Electric

Brian Seal, Technical Executive, EPRI

Mike Wojcik, Enterprise Sales Director, Utilities, Verizon Wireless

CONFERENCE DETAILS

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

DISTRIBUTION AUTOMATION, ROOM 217D

Smart Sensors

Session Moderator: Dave Kearns, Application Director, SG Technologies, S&C Electric

Smart sensors are crucial to the realization of a smart grid; they're fundamental to fault detection, feeder reconfiguration, system efficiency and WVO. This session will explore utility efforts to advance medium-voltage sensors.

Medium Voltage Sensors - Is the Real Question Why, Which One or How Many?

Speaker: Donald Parker, Alabama Power Co.

Co-author(s): Norman McCollough, EPRI

ComEd Distribution Automation and the Impact to Distribution Operations

Speaker: James Conway, Commonwealth Edison Company

Co-author(s): Timothy McThenia, The Structure Group
Robert Pinto, Commonwealth Edison Company

Real-time Fault Location Analysis at Georgia Power Company

Speaker: Gregory Brock, Georgia Power Co.

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 212AB

Asset Management: Strategies and Experiences

Session Moderator: Deryk Yuill, Technology Manager - RuggedSolutions, RuggedCom Inc.

A good asset management strategy is vital for utilities to extend the life, optimize the performance and maximize the value of their assets. This session will highlight utility-tested asset management strategies and will discuss their experiences, lessons learned and plans.

Hawaiian Electric Company's Approach to Managing Critical Transformers

Speaker: Tom Myers, KEMA Inc.

Transmission and Distribution Asset Health: Optimizing the Deployment of Next Generation Maintenance Management Strategies

Speaker: Peter Manos, The McDonnell Group

Co-author(s): Chris Lemay, Ventyx, an ABB company

Asset Management and Strategy for Operations Excellence

Speaker: Richard Wernsing, Public Service Electric and Gas Co.

Co-author(s): Ann Moore, OSIsoft LLC

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

GREENING THE GRID, ROOM 210B

Energy Storage: Is It Essential for Large-scale Renewable Integration? - PANEL

Panel Moderator: Johan Enslin, Director EPIC, UNC Charlotte

Emerging energy storage technologies are demonstrated and evaluated to mitigate the grid impacts of large-scale distributed generation. The energy storage technologies are migrating into larger-scale energy storage devices in substations to mitigate wider-area grid reliability impacts and postpone network upgrades. The technologies also are morphing into distributed energy storage solutions close to distribution transformers as community energy storage (CES) devices to mitigate voltage and power balancing issues, as well as improve reliability on secondary networks. Energy storage, however, is expensive and might make renewable energy more expensive. This panel session will address real energy storage applications, modeling results and utility experiences.

Panelists: Haukur (Hawk) Asgeirssonh, Manager of Power Systems Technologies, Detroit Edison
 Juan Castaneda, Manager, Power System Technologies, Southern California Edison
 Mark Rawson, Dist. Generation, Demand Response and Storage R&D Program Mgr., Sacramento Municipal Utility District
 Forrest Small, Director Energy, Navigant
 Tom Weaver, Manager, Distribution System Planning, American Electric Power Service Corporation

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

INTERNATIONAL PROJECTS, ROOM 209

Smart Grid International Experiences: Americas - PANEL

Panel Moderator: Julio Romero Aguero, Director of Distribution, Quanta Technology

Smart grid demonstrations and deployments around the world are contributing to the advancements of smart distribution technologies, interoperability standards and infrastructure requirements. These projects have different drivers, objectives and benefits, as well as implemented technologies (e.g., advanced metering infrastructure, advanced automation, distributed generation, electric vehicles, renewable energy generation, etc.). The projects are identifying gaps and solutions for future projects throughout the world. Panelists will present smart grid projects at different levels and scales of deployment that cover overall objectives and drivers, technologies, lessons learned and benefits.

Panelists: Louis Lepine, Hydro-Québec Research Institute, Canada
 Hector Altuve, Distinguished Engineer, Schweitzer Engineering Laboratories Inc., Mexico
 Uday Deshmukh, Senior Managing Consultant, IBM, India
 Helen Guo, Senior Engineer, Hydro One, Canada
 Nargis Ladha, Manager Geospatial Systems and Technology Projects, Hydro One, Canada

CONFERENCE DETAILS

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

MOBILE AND GEOSPATIAL SOLUTIONS, ROOM 214B

Mobile Work and Mapping for Outage Restoration

Session Moderator: David Hotte, V.P. Utility Solutions Sector, CGI Inc. (Utility Solutions)

Outage restoration remains a high and visible priority for utilities. This session will present case studies on mobile outage implementation including call out, GPS (AVL) and outage dispatch. The session will cover the implementation strategy and challenges and will highlight productivity benefits and customer service improvements.

Global Positioning System (GPS) - Automated Vehicle Location (AVL) Solution: Implementation Challenges and Benefit Realization

Speaker: Anshul Srivastava, Toronto Hydro

Co-author(s): Alex Bakulev, Toronto Hydro

Tapping a Mobile App for Emergency Power Restoration

Speaker: Mark Bell, SRP

Mobile Work Management Best Practices: Implementing Mobile Outage Tickets at Wright-Hennepin Electric Association

Speaker: Sean Solberg, Powel Inc.

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

SCADA AND NETWORK INFRASTRUCTURE, ROOM 214D

Distributed Network Protocol (DNP3) Standards and Enhancements for Smart Grid Applications - PANEL

Session Moderator: Bill Cassel, Retired

Panel Moderator: H Lee Smith, Executive Consultant, HLS Consultant Services

DNP3 is a widely used protocol in North America, and many users want to use it for their smart grid deployments. In response, the DNP Users Group teamed with the IEEE-SA to publish IEEE Standard 1815 (the DNP3 Specification). DNP3 also is being used in other smart grid applications, which will be described. This panel session also will discuss secure authentication, current status of IEEE Std. 1815, and progress of DNP3 secure authentication progress in mapping IEEE Std1815 to IEC 61850 (IEEE P1815.1).

Panelists: Grant Gilchrist, Principal Consultant, EnerNex

Andrew West, SCADA Consultant and Chair, DNP Technical Committee

Ron Farquharson, Principal Consultant Smart Grid Engineering Team, EnerNex Corp.

CONFERENCE DETAILS

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 213AB

Getting from the Drawing Board to Operations: A Communications Roadmap - Part 2

Session Moderator: Sharon Allan, Partner, Accenture Smart Grid Solutions

Utilities present their current projects and smart grid communication strategies in this session.

AMI Communications Technology Evaluation for the Transport of Smart Grid Data: Exploring the Frontiers of AMI Communications

Speaker: Paul D. Kalv, City of Leesburg

Co-author(s): Ron Chebra, KEMA

Converting Your Communications Network from TDM to MPLS-based IP: From Business Case to Post Deployment Lessons Learned

Speaker: Dan Belmont, West Monroe Partners

The Future of Utility Communications

Speaker: Kathy Nelson, Great River Energy

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 214A

Smart Grid Implementation: Utilities Share Deployment Experiences and Solutions - PANEL

Session Moderator: Umesh Singh, Chief Consulting Engineer Smart Grid Software-Automation, GE Digital Energy

Panel Moderator: Matt Wakefield, Senior Program Manager, EPRI

This panel session will focus on smart grid operational solutions and implementation initiatives at CenterPoint Energy, KCP&L, Sacramento Municipal Utility District and Southern California Edison.

Panelists: Edward Hedges, Manager Smart Grid Technology Planning, Kansas City Power & Light Co.

Edward Kamiab, Project Manager Irvine Smart Grid Demonstration Project, Southern California Edison Co.

Jim Parks, Program Manager Smart Grid, Sacramento Municipal Utility District

Christian Perreault, Smart Grid Manager, Hydro-Québec Distribution

Melvin Schoech, Manager of Intelligent Grid Deployment, CenterPoint Energy

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 211

Smart Grid Architecture: Considerations for the Future

Session Moderator: Gary Rackliffe, Vice President Smart Grids, North America, ABB Inc.

This session will focus on smart grid architecture with considerations regarding and applications to demand response, grid optimization and distributed energy resources.

A New Transactive System Architecture for Distributed Resources and Distribution System Management

Speaker: Farrokh Rahimi, Open Access Technology International Inc.

Hidden Coupling through the Grid and Its Impact on Smart Grid Architecture

Speaker: Jeffrey Taft, Cisco

Collaborative Optimization of Distribution Grid Operation: Improving the Grid Reliability and Efficiency

Speaker: Hua Fan, GE Energy

Co-author(s): Paul Backscheider, GE Energy T&D

Jiyuan Fan, GE Energy

John McDonald, GE Digital Energy

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

SUBSTATION AUTOMATION, ROOM 217C

Reliability Improvements Through Substation Automation

Session Moderator: Keith Deaton, Senior Vice President Energy Consulting and Engineering, SAIC

This session will discuss the improvement of reliability and system operation from the exchange of high-speed, protection-grade signals for protection, control and monitoring. The session will describe a working system that includes more than 340 protective relays and programmable logic controllers. In addition, distribution system reliability improvement provided by networked systems using communication-assisted tripping and sectionalizing will be explored. In addition, the principles and implementation of adaptive load-shedding using IEC 61850 GOOSE messaging will be discussed.

Electrical Network Monitoring and Control System for a Large Oil Sand Extraction Plant Using IEC 61850 Communication Protocol to Exchange High-speed Protection Grade Signals

Speaker: Pierre Berger, General Electric

Co-author(s): Sushil Cherian, Shell Canada

Rod Lechelt, Altec Engineering Services Inc.

Mohammad Fahrid, AMEC

High-speed Communication-assisted Tripping and Sectionalizing for Distribution Systems

Speaker: Steve Turner, Beckwith Electric Company

Load Shedding in Smart Grid Systems

Speaker: Alexander Apostolov, OMICRON Electronics U.S.A.

CONFERENCE DETAILS

Wednesday, Jan. 25, 9:30 a.m. - 11:00 a.m.

TRANSMISSION AND LARGE-SCALE RENEWABLES, ROOM 210A

Integrating Renewable Energy Sources with Transmission and Distribution Grids

Session Moderator: Alex Lago, Principal, The Structure Group

Large-scale deployment of renewable energy resources with different characteristics is becoming an increasingly significant challenge to the safe, reliable operation of transmission and distribution grids. This session will present several projects addressing some of these challenges.

Supporting Operations and Grid Reliability and Managing Renewable Integration Challenges

Speaker: Jim McIntosh, California Independent System Operator

Co-author(s): Ann Moore, OSIssoft LLC

BPA's Intermittent Renewable Load Following Pilot: A Case Study in Balancing Wind Energy with Fast Demand Response

Speaker: Joshua Binus, Bonneville Power Administration

Co-author(s): Michael Manning, UISOL

Integration of Large Rooftop PV Arrays into Southern California Edison's Distribution System

Speaker: Robert Yinger, Southern California Edison

Co-author(s): Richard Bravo, Southern California Edison

Roger Salas, Southern California Edison

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

WATER UTILITY TECHNOLOGY, ROOM 215

Stabilizing and Protecting Your SCADA and Control Systems

Session Moderator: David Foltz, Program Manager, Sensus U.S.A.

In most water utilities, supervisory control and data acquisition (SCADA) and control systems are the backbone of the operation, the eyes and ears of the water utility. Such a critical piece of technology deserves careful consideration, from selection of a radio network to protecting network infrastructure from malicious threats. Presenters in this session will discuss those issues, as well as one utility's experiences—good and bad—with implementing a SCADA network.

Addressing the Water Utility SCADA Network Problem: What's In Your Radio Communication Tool Box?

Speaker: Daniel G. Steele, FreeWave Technologies Inc.

Addressing Advanced Threats to Industrial Control Systems

Speaker: Andrew Ginter, Waterfall Security Solutions Ltd.

Resilient Infrastructure for SCADA

Speaker: Jacob Brodsky, Washington Suburban Sanitary Commission

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

ADVANCED METERING, ROOM 214C

Benefits of Energy Monitoring and Automation to Enhance Revenue Protection

Session Moderator: Edward Kobeszka, Sr. Marketing Manager, Aclara

This session will highlight how energy monitoring and connect and disconnect automation provide utilities tools for protecting revenue, including cost avoidance and enhanced customer experiences.

Energy Theft Detection Analytics

Speaker: M. Brent Hughes, MBH Consulting Ltd.

The Journey to Automated Remote Connects and Disconnects at OG&E—Lessons Learned and Benefits Realized

Speaker: Charles Plowman, Oklahoma Gas & Electric
Co-author(s): Neill Britten, Oklahoma Gas & Electric
Rodney Buchanan, Oklahoma Gas & Electric
Tim Saffell, The Structure Group

Advanced Meter Data and Its Impact on Utility Revenue Protection Activities

Speaker: John Kratzinger, PECO Energy
Co-author(s): Craig Bialy, KEMA Inc.

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

CUSTOMER OPERATIONS, ROOM 217B

Using Demand Response to Create Smart Customers - PANEL

Panel Moderator: Stephen Callahan, Partner, IBM

Utility panelists share success stories about what often is most difficult in creating successful demand response programs: recruiting and retaining willing and excited customers, evaluating customer acceptance and effectiveness of smart grid technologies, and planning for the system impacts.

Panelists: Steve Deskins, Manager, Automated Metering Infrastructure, AEP Ohio
Sandra Longcrier, Manager Smart Grid Marketing, Oklahoma Gas & Electric
Caroline Winn, Director of T&D Planning, San Diego Gas and Electric Company

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 217A

Providing Pricing and Usable Information to the End Use Customer

Session Moderator: Steve Kearney, Regional Manager, EMON LLC

This session will review dynamic pricing with Web portal, real-world demand response projects. These papers explain several Electric Power Research Institute projects and what utilities have implemented.

Energy Savings Amid a Local Energy Boom: Neighboring Utilities Partner to Build Local Economy

Speaker: Darin Lamont, Saint John Energy
Co-author(s): Bob Hannough, Tantalus

Lakeland Smart Grid Initiative – Mitigating the Risks and Riding the Bumps

Speaker: Randall "Randy" Dotson, City of Lakeland
Co-author(s): Robert Maurer, SAIC

Dynamic Pricing, Technology, and Social Impacts

Speaker: Gale Horst, EPRI

CONFERENCE DETAILS

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

DISTRIBUTION AUTOMATION, ROOM 217D

Three Musketeer Utilities' Systems Show Improvements with Volt/VAR Implementation

Session Moderator: Jim Clemmer, Sr. Project Manager/Sr. Engineer, CH Guernsey & Company

Three musketeer utilities discuss variations on Volt/VAR optimization and describe their experiences within system improvement processes and standards. Presenters will review descriptions of operational benefits while meeting operational constraints within acceptable consumer limits. Progress tracking, pilot and full implementations are covered in this exciting and dynamic session.

Integrated Volt-VAR Control Rollout: Lessons and Results from Pilot to Full Deployment

Speaker: Cristi Killian, Oklahoma Gas & Electric
Co-author(s): Andrew Hanson, The Structure Group

The Practical Integration of Feeder Volt/VAR Optimization Under Normal and Abnormal Conditions

Speaker: John Gibson, Avista Utilities
Co-author(s): Curtis Kirkeby, Avista Utilities
Gary Ockwell, Efacec ACS

KCP&L'S Progressive and Practical Dynamic Voltage Control Program

Speaker: Steve Goeckeler, Kansas City Power & Light Co.
Co-author(s): Carl Goeckeler, Kansas City Power & Light Co.

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 212AB

Integration Practices Using Industry Standards

Session Moderator: Greg Robinson, General Manager, Xtensible Solutions

Many utilities are employing utility industry standards in their strategies for managing the large volumes of data associated with the smart grid. This session will examine a key utility standard, IEC 61968, and how it is used on utility projects. Two utility case studies will be presented: one on the semantics integration of smart grid, and one on integration of smart metering and outage management.

Enterprise Integration of Metering Systems Using IEC 61968-9

Speaker: Scott Neumann, Utility Integrated Solutions
Co-author(s): David Haynes, Aclara
Todd Viegut, Ecologic Analytics

San Diego Gas and Electric Applies Complex Event Processing and Service-oriented Architecture for Smart Metering and OMS Solutions

Speaker: William Maxwell, Sempra Utilities
Co-author(s): Peter Belknap, Oracle

Case Study on Long Island Power Authority (LIPA): Leveraging Industry Standards as Part of Enterprise Information Management, Specifically Supporting Semantic Integration on Smart Grid Projects

Speaker: Predrag Vujovic, Long Island Power Authority
Co-author(s): Fran Clark, Arpeggio Technology LLC
Stipe Fustar, PowerGrid360
Phillip Jones, Xtensible Solutions

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 216AB

Smart Grid Lessons Learned: Utility and Regulator Perspectives - PANEL

Session Moderator: Hahn Tram, V.P. Enterprise Solutions, Quanta Technology

Panel Moderator: Paul Alvarez, Principal and Utility Practice Leader, MetaVu Inc.

Utilities and regulators are turning attention from smart grid deployment to benefit maximization. This panel of thought leaders from IOUs and utility regulators will summarize lessons learned through the most innovative deployment projects and regulatory rulings to date. Duke Energy Corp. and Xcel Energy Inc. will present utility lessons learned, and the Oklahoma Corporation Commission will present the regulators' perspective on smart grid benefit maximization.

Panelists: Randy Huston, Director, Infrastructure and Smart Grid Deployment, Xcel Energy Services Inc.
The Honorable Dana Murphy, Chair, Oklahoma Corporation Commission
Mark Wyatt, V.P. Smart Energy Systems, Duke Energy

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

GREENING THE GRID, ROOM 210B

Integrating Utility-scale Solar PV Systems: A Blueprint for Success

Session Moderator: Koustuv Ghoshal, Managing Partner, Inspirra Inc.

This session will illustrate a set of solar photovoltaic (PV) integration solutions presented by experts from various domains of the distributed generation industry. Presenters will share a distribution utility's point of view in integrating rooftop PV arrays, a technology leader's experience in mitigating voltage variations and results from a Department of Energy study.

Mitigation of Voltage Variations Caused by Utility-scale Distributed PV Plants

Speaker: Reigh Walling, GE Energy
Co-author(s): James Cleary, National Grid USA

Integration of Micro-scale Photovoltaic Distributed Generation in Power Distribution Systems

Speaker: Johan Enslin, UNC Charlotte
Co-author(s): Hussam Alatrash, Petra Solar
Panitarn Chongfuangprinya, Quanta Technology
Bhavya Gudimetla, Quanta Technology
Farid Katiraei, Quanta Technology

Effective Utility-scale Solar in Emerging Markets

Speaker: Boris Schubert, Q-Cells North America

CONFERENCE DETAILS

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

INTERNATIONAL PROJECTS, ROOM 209

International Experiences with Advanced Automation - PANEL

Panel Moderator: Bartosz Wojszczyk, Global Smart Grid Technical Solutions Leader, GE Energy, Digital Energy

Integrating many new generation and load technologies challenges the reliability of the power supply. If not addressed properly, these challenges will result in unexpected grid failures that affect financial performance, business operations and public image. Effectively addressing these challenges includes engineering, designing and operating the electric grid with well-defined automation solutions in mind, enabling overall system stability and integrity. Panelists from around the world will discuss international experiences and utility practices around advances in applications for modern substations and feeder automation.

Panelists: Edson Hernandez, Automation Engineer, Schweitzer Engineering Laboratories Inc., Mexico
Richard Hunt, Market Development Leader, GE Digital Energy, United States
Dmitry Letunovskiy, Head of R&D Relay Protection Systems Department, CJSC Novintech, Russian Federation
Martin Speiermann, Vice President, Sales & Marketing, PowerSense A/S, Denmark
Luc Tetreault, Engineer, Hydro-Quebec, Canada

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

MOBILE AND GEOSPATIAL SOLUTIONS, ROOM 214B

Trends in Utility GIS and Mobility

Session Moderator: William Meehan, Director, Utility Solutions, ESRI

The need for information access is expanding with the deployment of the smart grid. Utilities are accessing and leveraging geospatial data in innovative ways that have led to additional reliance on geospatial information systems (GIS) and mobile infrastructure. This session will focus on the trends in GIS and mobile technology.

Practical Examples of How GIS Helps Plan, Implement and Operate your Smart Grid

Speaker: Tom Helmer, Enspira Solutions, a Black & Veatch company

The Utility of the Future: Mobile GIS and the Smart Grid

Speaker: Ron Howard, GE Energy

Trends and Best Practices for Leveraging Mobile Technology in the Utility Industry

Speaker: Lee Johnson, NetMotion Wireless

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

SCADA AND NETWORK INFRASTRUCTURE, ROOM 214D

Let's Talk Securely about Cybersecurity

Session Moderator: William Ackerman, Principal Consultant, Ackerman Associates LLC

Cybersecurity has become a top priority from a North American Electric Reliability Corp. (NERC) critical infrastructure protection (CIP)-compliance standpoint, as well as a genuine goal to provide the highest security for supervisory control and data acquisition (SCADA) networks. Preparing to meet NERC CIP requires different considerations for different areas of a utility. In this session presenters will address physical security, public wireless networks and secure remote substation access. This session will provide an in-depth view of cybersecurity as it specifically relates to utilities' SCADA networks.

Importance of Multiple Network Environments for Implementing a Cyber Secure Remote Substation Access System

Speaker: Scott Sternfeld, EPRI
Co-author(s): Rick Murphy, FirstEnergy

Evolution of Control Systems Cybersecurity

Speaker: Lisa Kaiser, Department of Homeland Security

How Situation Management Empowers Utilities for NERC CIP Physical Security Compliance

Speaker: Grady Dunn, GMD Security Consulting LLC
Co-author(s): Patrick Kiernan, NICE Systems

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 213AB

Lessons from the Field: Utilities Share AMI Communications Experiences - PANEL

Panel Moderator: Carolyn Kinsman, President, Automated Communication Links Inc.

In this panel session, utilities will discuss their current advanced metering infrastructure communications implementations projects.

Panelists: Richard Cornforth, Manager Investment Strategy, PECO
Tami Maxwell Barron, General Manager Distribution Operations and Services, Georgia Power Co.
Dave Wade, Executive Vice President and COO, EPB

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 214A

You Gathered the Data, Now How Do You Generate Value From It?

Session Moderator: Martha Bernal, Director of Power and High Voltage Products, Thomas & Betts

From distribution automation to smart metering, learn how utilities are using analytics to realize operational and customer benefits from data gathering.

Driving Greater Value from Smart Metering Investments with an Information Architecture for Data Mining and Analytics at Southern Company

Speaker: Bradley Williams, Oracle Utilities
Co-author(s): Chris Foretich, Southern Co.
David Haak, Accenture

Meter Data Analytics are a Key to Successful AMI Deployment

Speaker: Nancy Lord, Florida Power & Light
Co-author(s): Mark Inglis, DataRaker

AMI and Outage - What Can I Tell The Customer?

Speaker: Sean Kelly, Pepco Holdings Inc.
Co-author(s): Kevin Costin, Oracle

CONFERENCE DETAILS

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

SUBSTATION AUTOMATION, ROOM 217C

The Future of Substation Automation: Industry Trends, Linking Standards, IP Communications and Lessons Learned in Applying Process Bus

Session Moderator: Ron Farquharson, Principal Consultant Smart Grid Engineering Team, EnerNex Corp.

Utilities increasingly are viewing substations as a critical source of data to support models and applications essential to reliable, efficient operation. This growing recognition appears destined to continue many years with new data types and requirements driving the adoption of new standards and upgrades to communications infrastructures. This session looks to trends in the adoption of technologies and standards as reported by utilities in a broad, detailed survey; an innovative approach to bridging the gap between control systems standards and Internet Protocol-based communications with focus on IEC 61850 and IEC 61970 (CIM), and recent experiences in the deployment of IEC 61850 process bus in substations.

Trends in Protection and Control: Global Findings and Outlook for 2012-2014

Speaker: Charles Newton, Newton-Evans Research Co.

The Digital Substation: Linking Standards and Communications

Speaker: Bradley Tips, Cisco

Co-author(s): Herbert Falk, SISCO

Practical Considerations for Applying Process Bus

Speaker: Terry Smith, GE Digital Energy

Co-author(s): Richard Hunt, GE Digital Energy

Wednesday, Jan. 25, 1:30 p.m. - 3:00 p.m.

TRANSMISSION AND LARGE-SCALE RENEWABLES, ROOM 210A

Real-world Technology and Operating Experience in Wind Power Integration

Session Moderator: Doug Czarnomski, Principal Engineer, Energy Initiatives Group

As wind penetration across the nation increases, new technology solutions and operating experiences continue to inform the integration discussion. This session examines several aspects of the wind-integration challenge facing utilities and developers.

Wind Farm Volt/VAR Control Using a Real-time Automation Controller

Speaker: Nicholas Seeley, Schweitzer Engineering Laboratories Inc.

Co-author(s): Tony Martini, Schweitzer Engineering Laboratories Inc.

Michael Thompson, Schweitzer Engineering Laboratories Inc.

Automated Wind Turbine Curtailment

Speaker: Wojtek Czyz, SUBNET Solutions Inc.

Co-author(s): Brad Arnold, Turlock Irrigation District

Hydro One Power-distance Test to Maintain Acceptable Voltage Performance through Assessment of Solar and Wind Distributed Generation Connection Proposals

Speaker: John Fuerth, Hydro One

Wednesday, Jan. 25, 3:30 p.m. - 4:30 p.m.

Wednesday, Jan. 25, 3:30 p.m. - 4:30 p.m.

DEPARTMENT OF ENERGY MEGA SESSION, LILA COCKRELL THEATRE

Validating the Benefits of Smart Grid Investments - Sustaining the Pace of Modernization

Panel Moderator: Christopher Irwin, US Department of Energy, Office of Electricity Delivery and Energy Reliability

The U.S. Department of Energy (DOE), Office of Electricity Delivery and Energy Reliability, will announce the release of a series of reports at DistribuTECH that uses the GridLAB-D open source distribution system simulation tool to predict the likely benefits of several classes of technologies being deployed by Smart Grid Investment Grant (SGIG) recipients. The simulations are expected to evaluate Distribution Automation, Demand Response, Distributed Energy, and Thermal Energy Storage in stand-alone technical reports. A summary policy-level report of the findings is also expected to be announced. DOE expects the reports will have a national relevance by using high resolution input data, and prototypical feeders that represent much of the US distribution system.

DOE and the SGIG community are deploying advanced technologies with credible, measurable benefits, and DOE is offering additional tools to utilities, industry and other stakeholders to sustain the pace of grid modernization, as stimulus investments run to completion. In a special panel session, DOE, CenterPoint Energy, ConEd and SMUD will profile the report, present the case for project level benefits, and discuss the tools utilities and industry can use to sustain the ambitious pace of grid modernization kick-started under the Recovery Act.

Panelists: Jeff Myerson, Director, South Houston Service Area, CenterPoint Energy Houston Electric
Aseem Kapur, Department Manager, Smart Grid Implementation Group, Consolidated Edison Company of New York, Inc.
Victoria Zavatiero, Manager Smart Grid, Sacramento Municipal Utility District

Thursday, Jan. 26, 7:30 a.m. - 9:00 a.m.

BREAKFAST KEYNOTE, ROOM 0006A-D, RIVER LEVEL

Establishing Security Standards for The Energy Industry

Panel Moderator: Mike Ahmadi, COO, GraniteKey LLC

Standards are necessary for the establishment of baselines, as well as a means of establishing proper auditing techniques. Standards are a necessary step towards effective regulations, and can serve to level the playing field for all who seek to partake in deploying systems in the energy space. While many standards exist to address a variety of issues in the energy industry, standards related to secure development and deployment of energy systems are currently in the formative stages. Join this panel as we explore the standards development process, the challenges associated with developing and implementing security standards for the energy industry, and what end users, vendors, industry group, regulators, and stakeholders are doing to address areas where standards are lacking.

Panelists: Bobby Brown, Director, IS and Communication Security, EnerNex
Dennis Holstein, Senior Partner and Co-founder, OPUS Consulting Group
Ward Pyles, Security Analyst, Southern Company
Alan Rivaldo, Cyber Security Analyst, Homeland Security Section, Infrastructure and Reliability Division, Public Utility Commission of Texas

CONFERENCE DETAILS

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

ADVANCED METERING, ROOM 214C

Winning Over a Skeptical Consumer - PANEL

Session Moderator: Tim Wolf, Director of Marketing Communications, North America/Latin America, Itron

Panel Moderator: Patty Durand, Executive Director, Smart Grid Consumer Collaborative

With consumer skepticism about smart meters garnering media attention, utilities will share their perspectives and best practices for building customer support and participation.

Panelists: Paige Layne, Communications Manager, Duke Energy
Floyd LeBlanc, V.P. Corporate Communications, CenterPoint Energy
Christopher Schein, Senior Director, Communications, Oncor Electric Delivery
Mark Shevitz, Director, Brand Strategy and Planning, CBD Marketing

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

CUSTOMER OPERATIONS, ROOM 217B

Has Your Utility Found Its "Tweet Spot" Using Social Media? - PANEL

Session Moderator: Jerry Duvall, CEO, CS Week

Panel Moderator: Todd Arnold, Managing Principal, Smart Customer Insights

Social media brings new communication opportunities for utilities to use internally and with customers. Find out how utilities are tapping Facebook, Twitter and other social media to enter new markets, reduce operational costs and improve customer service. In the digital age, customers want and expect instant, easy communication—even with utilities.

Panelists: Shelley Barter, Team Lead, Web Services, ENMAX Corporation
Justin Segall, Founder and E.V.P., Simple Energy
Thomas Walker, Director, CSBU PMO & Edison SmartConnect Business Integration, Southern California Edison Company

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

DEMAND RESPONSE AND ENERGY EFFICIENCY, ROOM 217A

Just the Facts Man! Field Experience, Knowledge and Research Support Necessary to Implement Smart Grid and DR Programs - PANEL

Session Moderator: Dick Preston, Director, MW Consulting Corp.

Panel Moderator: Edwin Liu, Vice President, Quanta Technology

Hear from utilities and leading research organizations about steps for smart grid implementation planning, customer involvement and tools to manage and incorporate demand response programs.

Panelists: Angela Chuang, Senior Project Manager, EPRI
Ali Ipakchi, V.P. Smart Grid and Green Power, Open Access Technology International Inc.
Lawrence Oliva, Director, Tariff Programs & Services, Southern California Edison
Craig Tinder, Sr. Manager Smart Energy, Reliant Energy

CONFERENCE DETAILS

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

DISTRIBUTION AUTOMATION, ROOM 217D

Network Interoperability and Automatic Restoration

Session Moderator: Carl Goeckeler, Consulting Engineer, Kansas City Power & Light Co.

American Electric Power Co. Inc. explains its grid management program and the role of interoperability and benefits using automated equipment. Entergy-Gulf States Louisiana LLC will present DA lessons learned during the past 10 years and how the lessons affected new distribution feeders in New Orleans after Hurricane Katrina.

AEP's gridSMART®: Grid Management Interoperability Unlocks Additional Utility Benefits

Speaker: Paul Thomas, American Electric Power

Co-author(s): Randy Cough, GE Energy

How Entergy is Building On Successful Distribution Automation Projects

Speaker: Jeremy Blair, Entergy Corporation

Co-author(s): Lea Maurer, S&C Electric

Las Vegas Auto Restoration Case Study

Speaker: Albert Luong, SUBNET Solutions

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 212AB

Utilities' Smart Grid Programs: Another Year of Progress - PANEL

Panel Moderator: Greg Robinson, General Manager, Xtensible Solutions

The OpenSG Subcommittee of the UCA International Users Group (UCAIug) aims to accelerate smart grid standards and technology development—a goal aligned with objectives of the National Institute of Standards and Technology (NIST) Smart Grid Interoperability Panel (SGIP). This popular panel of OpenSG Steering Committee members will make its third DistribuTECH appearance. Panelists will share how their utilities contribute to and leverage the OpenSG and NIST SGIP to ease smart grid implementation and risks. Don't miss their updates, lessons learned and Q-and-A.

Panelists: Jeff Gooding, IT General Manager, Smart Grid Systems Engineering, Southern California Edison
Chris Knudsen, Director, Technology Innovation Center, Pacific Gas & Electric
Phil Slack, Senior Manager, Enterprise Architecture, Florida Power & Light Co.
Robert Stewart, Manager, Advanced Technology and New Business, PEPCO Holdings Inc.

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

ENTERPRISE INFORMATION AND ASSET MGMT., ROOM 216AB

Smart Grid Risk Mitigation

Session Moderator: Bradley Williams, V.P. Industry Strategy, Oracle Utilities

This session explores utility technology risk mitigation in: 1) Device life cycle management, 2) National Institute of Standards and Technology (NIST) Risk Management Framework, and 3) Emergency operations interoperability. Consumers Energy will describe its experience and strategy for smart grid device management. The NIST framework presentation will provide a holistic view of standards, processes and compliance around security risks. The emergency operations interoperability presentation will explore a standards-based approach to deal with major events coordination among utilities and public security organizations.

Risk Mitigation for the System Device Lifecycle

Speaker: Bruce Smith, Consumers Energy

Co-author(s): Brian Pugliese, KEMA Inc.

National Institute of Standards & Technology (NIST) Risk Management Framework in Utility Environments

Speaker: Jon Stanford, PricewaterhouseCoopers

Enabling Utility and Emergency Operations Collaboration with Open Interoperability Standards

Speaker: Mark Wald, UISOL, an Alstom company

Co-author(s): James Morentz, SAIC

Terry Nielsen, UISOL, an Alstom company

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

GREENING THE GRID, ROOM 210B

Plug-in Electric Vehicle Charging, Load Forecasting and System Impacts - PANEL

Panel Moderator: Dick Cromie, Program Manager, Advanced Technology, Southern California Edison Co.

Panelists will focus on perspectives from utility, automaker and research experts. DTE will discuss its experimental EV rates and consumer acceptance. The Electric Power Research Institute will explore charge profile tools as tested with Salt River Project. General Motors Co. will discuss implications of the smart grid, advanced metering infrastructure and smart charging on the utility electric system and share views on plug-in electric vehicle adoption.

Panelists: Mark Alexander, Manager, Vehicle Systems Analysis, EPRI

Paul Pebbles, Global Electrification Product Manager, OnStar

Hauker (Hawk) Asgeirssonh, Manager of Power Systems Technologies, Detroit Edison

CONFERENCE DETAILS

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

INTERNATIONAL PROJECTS, ROOM 209

International Experiences with Customer Information and Application

Session Moderator: Marco Janssen, President and CEO, UTInnovation, Netherlands

From China to the EU, the average electric customer demands more options, better reliability and economic savings from the power grid. The presentations in this session will examine how to fulfill the needs of international consumers.

Demand Side Management Goes Global

Speaker: Marianne Hedin, Pike Research, United States

Getting Customer Intimate: Improved Network Reliability and Energy Efficiency via Real-time Demand Management

Speaker: Simon Boyer, Logica North America Inc., United States

Co-author(s): Nigel Spooner, Logica, United Kingdom

Using High Resolution Energy Data to Map and Influence Consumer Behavior

Speaker: Nick Hunn, Onzo Ltd., United Kingdom

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

MOBILE AND GEOSPATIAL SOLUTIONS, ROOM 214B

A Bright Idea: Enterprise Asset Management for the Lighting Lifecycle: Two Utilities' Case Studies - PANEL

Session Moderator: Scott Rogers, CEO, Powel Inc.

Panel Moderator: Richard Pike, Practice Leader, Transmission & Distribution Services, Cohesive Information Services

Managing today's utility infrastructure involves maintaining complex assets. One of the most common but often overlooked is utility lighting. A panel of utility experts will discuss real perspectives on managing the complete life cycle of utility lighting assets and how adopting an integrated enterprise asset management approach, including GIS analysis, can bring significant benefits.

Panelists: Wayne Boone, Principal, Alabama Power Co.

Eddie Shaw, Project Manager, Duke Power's Power Delivery Light, Duke Energy

Bill Lopez, IT Manager, Resource Technology Services, Colorado Springs Utilities

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

SCADA AND NETWORK INFRASTRUCTURE, ROOM 214D

Messaging: Moving Smart Grid Data

Session Moderator: Bennie Fussell, Smart Grid Solutions Manager, Telvent

Whether it's between devices or systems, messaging is the underpinning that gets data where it needs to be. This session will highlight growth topics for messaging.

The Link Between IEC 61850 and CIM/IEC 61968/61970: Experience from a Smart Grid Demonstration Project

Speaker: Andre Naumann, Otto von Guericke University Magdeburg

The Use of MPLS-TP (Multi Protocol Label Switching – Transport Profile) as the Next Generation SONET (Standard Optical Network)

Speaker: Jurgen Michielsen, OTN Systems

IPv6 for Electric Power Utilities: Why You Need It and How to Get It

Speaker: David Berman, v6Gizmos LLC

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

SMART GRID COMMUNICATIONS TECHNOLOGY, ROOM 213AB

Mr. NISTR: What's Happening with Standards? - PANEL

Panel Moderator: Mark Browning, IT Director ComEd Utility Solutions, Exelon Corp.

This panel session is an update on the ever-evolving smart grids standards world.

Panelists: Grant Gilchrist, Principal Consultant, EnerNex
Tom Janca, Senior Intelligent Utility Network Architect, IBM GTS
David Mollerstuen, Standards Development Architect, Tendril

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

SMART GRID OPERATIONS SOLUTIONS, ROOM 214A

Smart Grid Architecture: A Holistic Approach

Session Moderator: Brad VerMeer, Director Utility Automation, Black & Veatch

This session includes utilities' experiences in implementing advanced software solutions in grid operations center and grid field applications, and across the enterprise.

Distribution Management System Deployment and Lessons Learned from Oklahoma Gas and Electric Positive Energy® Smart Grid Program

Speaker: Joel Webb, Oklahoma Gas & Electric
Co-author(s): David McLain, The Structure Group
Kenny Quenzer, Oklahoma Gas & Electric

Improving Fault Response at Southern Company with Real-time Fault Location Analysis through Combined Outage and Advanced Distribution Management

Speaker: David Lyons, Southern Co. - Georgia Power
Co-author(s): Gregory Brock, Georgia Power Co.
Kevin Costin, Oracle
Bradley Williams, Oracle Utilities

Cross Divisional Approach to Building Smart Grid Systems

Speaker: Tony Giroti, BRIDGE Energy Group

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

SUBSTATION AUTOMATION, ROOM 217C

Implementing High-Availability IP Networks While Leveraging Legacy Infrastructure in the Substation - PANEL

**Panel Moderators: John McDonald, Director Technical Strategy and Policy Development, GE Digital Energy
Lee House, V.P. and General Manager, GarrettCom Inc.**

In power utility substations, failure is not an option. During this panel session, North American utilities will discuss their smart grid challenges and solutions. The 61850 standards require Internet Protocol (IP), and because few greenfield situations exist, serial intelligent electronic devices (IEDs) must coexist with and be complemented by new networking equipment. As a result, hybrid substation networking strategies will be the norm for some time.

Panelists: Rich Gordus, Manager, Smart Grid Technologies and Strategy, ComEd
Donald Pratt, Senior Engineer, PECO
Chris Sistrunk, Sr. Engineer, T&D Technical Services, Entergy

CONFERENCE DETAILS

Thursday, Jan. 26, 9:30 a.m. - 11:00 a.m.

TRANSMISSION AND LARGE-SCALE RENEWABLES, ROOM 210A

Optimizing Distributed Generation Integration Through Smart Technologies - PANEL

Session Moderator: Linda Finley, Sr. Regional Transmission Engineer, Snohomish County PUD

Panel Moderator: Nadav Enbar, Sr. Project Manager, EPRI

In 2009, APS announced its Community Power Project in Flagstaff, Arizona. This project is bringing a high penetration of distributed renewable energy to a targeted location on the APS system to learn more about the management of these resources and their integration with future smart grid technologies. These learning opportunities integrated with APS' Flagstaff Smart Grid initiatives, and large scale energy storage demonstration will increase the utilities knowledge base and support future integration of distributed generation into the utility's systems. This panel presentation will address the targeted and integrated studies that will focus on discovering tangible and real-life benefits to customers and the utility.

Panelists: David Narang, Engineer, APS Energy Innovation
Phil Smithers, Manager, Technical Services, APS Energy Innovation
Tony Tewelis, Manager, Smart Grid, APS Energy Innovation
Joe Wilhelm, Engineer, APS Technology Solutions