

3rd Canadian Smart Grid Summit

Toronto, June 12-13, 2012

DAY ONE – Tuesday, June 12th, 2012

8:45 AM Opening Keynote: Ontario Independent Electricity System Operator Improving Grid Intelligence and Flexibility to Enable a Seamless Integration of Renewable Energy

To facilitate the multi-directional flow of renewable energy, changes in network planning, infrastructure, and operations are crucial. Is your grid optimized to accommodate renewables in the new era of distributed generation? Source these strategies on:

- Quantifying the impact of renewable energy on the distribution grid
- Utilizing forecasting models to increase grid stability
- Moving forward with Feed-in-Tariffs and microgrids

Prepare your grid infrastructure to fully enable the deployment of renewable energy.

Confirmed:

Kim Warren, Chief Operating Officer, Ontario Independent Electricity System Operator

9:30 AM Case Study: PowerStream Grid Modernization and Systems Integration: How it Affects the Distribution System

With better tools and monitoring systems, grid modernization is no longer an option, but a necessity. How do you balance new growth and the need for replacements to maintain a healthy, sustainable distribution system? Obtain critical insights on:

- Utilizing integrated information from billing, metering, and operation systems
- Addressing aging infrastructure and making the case for infrastructure re-investment
- How various stakeholders should proceed with grid modernization

Build a continuous, long-term strategy to overcome aging infrastructure.

Confirmed:

Mark Henderson, Executive Vice President, Asset Management & COO, PowerStream

10:15 AM Mid-Morning Networking Break

Interact with conference speakers and fellow attendees. Secure new contacts and discuss your ideas!

10:45 AM Reliability Assessment: NERC Enhancing Long-Term Grid Reliability and Power Quality Through Performance Analysis and Real-Time Monitoring

Customers, economies, and the overall success of the smart grid depends heavily on the reliability of the power system. This requires continuous assessment of reliability performance and real-time monitoring. Ensure your system planning is on par through:

- Planning for uncertainty in demand and supply
- Attaining faster restoration of outages with real-time monitoring technologies
- Employing automation technologies to better detect, control, and reduce outages

Come away with practical strategies to bolster grid reliability.

Confirmed:

Mark Lauby, VP and Director, Reliability Assessments and Performance Analysis, North American Electric Reliability Corporation

**11:30 AM Case Study: Burlington Hydro
Leveraging Advanced Metering Infrastructure and Home Area Networks to Advance Energy Conservation**

Customer participation and consumption data is vital in maximizing the utility of smart meters. Empowering customers with energy data has now become one of the major focuses in this connected, digital era. Source these strategies on:

- Realizing the benefits of smart homes
- Encouraging better energy management lifestyle to achieve long-term behavioural changes

Maximize your AMI's full potential and drive the future of energy conservation.

Confirmed:

Joe Saunders, Director, Regulatory Compliance and Asset Management, Burlington Hydro Inc

12:15 PM Networking Luncheon

Join the conference speakers and your peers in a relaxing luncheon.

**1:30 PM Case Study: Western Power (Australia) - Perth Solar City
Implementing Energy Efficiency and Renewable Energy in Your Community to Create a Responsive and Sustainable Grid**

Perth Solar City is an exciting initiative led by Western Power that is designed to enable cleaner energy consumption. The project aims to create informed, involved customers who can change behaviours and connect to renewable energy systems with ease. Gain valuable insights on:

- Identifying and understanding barriers to uptake of energy efficiency and renewable energy in the residential sector
- Integrating small scale residential and commercial renewable energy systems
- Facilitating behaviour change through technology and education-based customer engagement
- Lessons learned in proving the technology, customer response, and cost benefit analysis
- Future plans in customer programs and Home Area Network

Come away with a clear roadmap on critical lessons learned in bringing sustainable energy solutions to your community.

Confirmed:

Andrew Blaver, Implementation Manager of Perth Solar City, Regulation & Sustainability, Western Power (Australia)

**2:15 PM Standards Update
Devising the Framework for Interoperability to Ensure Long-Term Infrastructure Upgradeability**

To ensure compatibility for future developments, existing gaps and conflicting interests between standards must be addressed. Explore the latest developments for integrating communications and infrastructure upgrades in the Canadian Smart Grid Roadmap:

- Guidance for standards discrepancy and interests conflicts
- Ensure interoperability between systems, software, and devices
- Prepare for integration of new and emerging technologies

Identify crucial infrastructure standards, bridge the gaps and set the framework for future technology integration.

3:00 PM Mid-Afternoon Networking Break

Take a break and mingle with conference speakers and fellow attendees.

3:30 PM Data Management: TBA

4:15 PM Electric Vehicles

Planning and Enabling a Robust Charging Infrastructure for Effective Electric Vehicles Roll-out

Throughout the different stages of EV implementation, extensive collaboration and strategic planning is required. How do you effectively accommodate the anticipated load with the existing and future capacity? Explore the role of smart grids in EV adoption through:

- Ensuring grid reliability with the emergence of EVs
- Overcoming technical challenges in EV integration
- Systematic planning of charging infrastructure

Plan and prepare your grid infrastructure to encourage EV uptake.

Confirmed:

Leon Roose, Manager, Systems Integration, Hawaiian Electric Company, Inc.

5:00 PM Evening Social Activities

DAY TWO – Wednesday, June 13th, 2012

8:45 AM Opening Keynote:

Balancing Future Supply and Demand in the Evolving Energy Landscape and Better Plan for Future Smart Grid Developments

Accommodating the changes in energy supply and demand is crucial in planning for smart grids of the future. Gain a thorough understanding on the future of our electricity network through:

- Exploring market drivers, trends, and challenges
- Analyzing the current market structure requirements
- Forecasting and managing future demand
- Increasing flexibility in energy supply
- Providing right incentives for balancing services

Come away with a clear roadmap on meeting future energy challenges and preparing for tomorrow's smart grid.

Confirmed:

Dr. Massoud Amin, Professor, Electrical & Computer Engineering, University of Minnesota

9:30 AM Funding Future Infrastructure

Facilitating Regional Planning for Future Infrastructure Investment and Balancing Future Costs

For short and long-term planning in smart grid implementation, guidance for future investment in grid infrastructure is vital. In this session, hear all about:

- Limits of funding models and utilities' roles
- Gaps in investment for rebuilding grid infrastructure
- Facilitating coordination to ensure future investments meet the needs and best interests of consumers and stakeholders
- Promoting cost-effective infrastructure development planning for future accommodation

Know the options and available tools to develop future investment plans for smart grid infrastructure.

10:15 AM Mid-Morning Networking Break

Interact with conference speakers and fellow attendees. Secure new contacts and discuss your ideas!

10:45 AM Customer Engagement

Achieving Consistency in Customer Engagement to Better Implement a Customer-Focused Smart Grid

Customer engagement has become increasingly important in moving towards an energy-conscious society. Providing greater choice and control to customers is instrumental to increase participation and encourage conservation. In this session, source key strategies on:

- Gaining customer support and buy-in through clear, consistent communications
- Communicating the role, usage, and capacity of smart meters
- Effectively engaging customers in energy management and conservation programs

Foster consistent, long-term engagement to deliver the best value to your customers.

Confirmed:

Patty Durand, Executive Director, Smart Grid Consumer Collaborative

11:30 AM Technology Innovation

Promoting Sustainability and Energy Efficiency With Technology Innovation

Technology innovation allows for dynamic grid management and a large potential for sustainability. How can you fully leverage on the latest technology to optimize system capacity and promote energy efficiency? Take away these insights on:

- Progressive planning for smart grid and ICT technology implementation
- Feasibility and investment planning in electrical infrastructure

Strengthen your utility's focus on providing sustainable, reliable energy with the latest technology implementation.

Confirmed:

Heather Rosentrater, Director of Asset Management and Process Improvement, Avista

12:15 PM Networking Luncheon

Join the conference speakers and your peers in a relaxing luncheon.

1:30 PM Demand Side Management

How to Effectively Integrate Demand Side Management, Distributed Generation and Energy Storage to Maximize Energy Efficiency

Developments in energy storage technology play an important role in integrating distributed generation and offer new ways to manage demand. How can you further increase flexibility and drive the future of energy management? Take away these strategies on:

- Utilizing Demand Side Management to drive synergy in a traditionally supply side planning area
- Integrating DR programs into market design
- Enabling higher utilization of existing infrastructure

Devise an effective roadmap to pave the way for smart energy management.

Confirmed:

Michel Losier, Program Director, PowerShift Atlantic, New Brunswick Power

2:15 PM Smart Communities

Building a Robust and Reliable Grid for Smart Communities of the Future

Driven by climate change and smart technology, smart communities pave the future way of sustainable living. The smart grid provides the network and infrastructure that enable the connections and convergence of smart cities. In this session, source key strategies on:

- Collaborating with different sectors and stakeholders within the smart community ecosystem
- Educating and engaging customers on smarter energy management

- Integrating smart technology and devices to provide and collect real-time data
- Developments and challenges in transportation electrification

Take away invaluable insights on bolstering the grid for future sustainable communities.

Confirmed:

Scott Thomsen, Senior Strategic Advisor, Communications & Public Affairs, Seattle City Light

3:00 PM Mid-Afternoon Networking Break

Take a break and mingle with conference speakers and fellow attendees.

3:30 PM Security Outlook

Maintaining System Resilience and Bolstering Cyber Security Amidst Increased Grid Connectivity

Cyber security continues to remain one of the pressing vulnerabilities of the connected grid. In this session, obtain crucial updates on how to continuously uphold a secure grid network:

- Best practices in grid defense and protection
- Utilizing security analytics to bolster resilience
- Monitor, assess, and reduce the risk of disruptions

Stay on top of security developments to maintain grid resilience.

4:15 PM Peer to Peer Session

Plan and Execute Your Smart Grid Roadmap for the Future of Energy

The perspectives and experiences of individual delegates, along with the insights of speakers over the past two days, will be brought together for this exclusive exchange on strategies that worked and those that have not. Conference delegates will focus on two questions:

1. What are the key strategies and future developments that will affect the electricity system in North America?
2. What are your planned solutions for overcoming current issues facing the power industry?

Take away valuable lessons from your peers in this unique interactive session.

5:00 PM Conference Adjourns