

2nd Annual

Smart Grid Interoperability Summit

Tuesday, June 7th and Wednesday, June 8th 2011 | Woodbine Convention Centre | Toronto, ON

Maximize Security | Demand Response | Integrate Renewables | Meet Compliance
Prepare for Regulations | Distribution Automation | Source New Technologies

Hear from these leaders:



Sol Lancashire,
Telecom Architect, BC Hydro
Chairman of the Board,
Utility Telecom Council of Canada



John Simmins,
Senior Project Manager - Smart Grid,
Electric Power Research Institute



Joseph LoPorto,
Manager Distribution Automation &
Special Projects,
Pepco Holdings Inc.



G. Muir Davis,
Project Manager,
Demand Resource Integration,
Southern California Edison



Willie Grieve,
Chair,
Alberta Utilities Commission

DON'T MISS this opportunity to source critical insights from large and small utilities, regulators and research labs.

Hear from 14 organizations across North America:

- | | |
|------------------------------|--|
| ① Austin Energy (TX) | ⑧ Southern California Edison |
| ② DTE Energy (MI) | ⑨ Pepco Holdings Inc. (DE) |
| ③ Toronto Hydro | ⑩ Alberta Utilities Commission |
| ④ BC Hydro | ⑪ Electric Power Research Institute |
| ⑤ South Alta REA (AB) | ⑫ BC Utilities Commission |
| ⑥ Horizon Utilities | ⑬ Lawrence Berkeley National Lab. (CA) |
| ⑦ Greater Sudbury Hydro Inc. | ⑭ US Dept. of Homeland Security |

Take away these 10 KEY BENEFITS:

- ① **Navigate** current standards and anticipate what's ahead
- ② **Maximize** reliability through distribution automation innovations
- ③ **Collaborate** with regulators in building an interoperable grid
- ④ **Harmonize** protocols for successful deployments
- ⑤ **Attain** "total utility integration" for your organization
- ⑥ **Be advised** by peers via an exclusive interactive session
- ⑦ **Reduce** outages with emerging protocols and standards
- ⑧ **Integrate** renewable sources through a flexible and adaptable grid
- ⑨ **Demystify** and apply CIM and Multispeak in utility harmonization
- ⑩ **Bolster** grid security and enable real-time data transfer

Gold Sponsor:



Bronze Sponsors:



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Minimize outages and service disruptions!

An interoperable grid is critical to your security, reliability and efficiency.



As the glue of smart grid technologies, interoperability is critical to the success of a robust and sustainable grid architecture. You will walk away from this conference with the ability to maximize your grid reliability, security and return on investments. Plus make informed decisions and advance with confidence.

Canada's only event on interoperability for smart grid!

If you are involved in any aspect of grid architecture and smart grid, don't miss out on this unique event. This conference only comes around once a year.

Key knowledge leaders from Canada and the US will deliver timely updates, strategies and lessons learned to improve smart grid interactions.

Interoperability is your biggest challenge to an effective grid.

Your first step: This conference!

DON'T MISS this opportunity to source critical insights from large and small utilities, regulators and research labs.

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| ⑧ Southern California Edison | |
| ⑨ Pepco Holdings Inc. (DE) | |

Hear from interop leaders and take away these 10 KEY BENEFITS:

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- ⑩ **Bolster** grid security and enable real-time data transfer

Emulate their success. Learn from their challenges to save time and money and reduce risk. Establish your organization as the next leader! This conference only comes around once a year.

Register now, as this event is sure to sell out!

Take away SEVEN ADDITIONAL benefits from this exclusive event:

1. Dedicated Q&A opportunities
2. Five extended networking breaks with peers
3. 15+ speakers contributing to and implementing grid interop
4. Representatives from nine utilities across North America
5. Three panels – standards, e-car and regulators
6. Special group discounts
7. Complete binder of materials

Take this opportunity to see how your colleagues are doing; share your experiences and exchange ideas and strategies! If you want to meet with your peers in the field and form valuable alliances, this is your best opportunity this year.

Register Today! - Space is Limited And Sure To Sell Out

Don't miss your chance to participate in these critical discussions and to network with the leaders in smart grid interop. Register for our limited spaces by calling **1-866-298-9343** or emailing registrations@strategyinstitute.com today.

Attend

this high-level summit specifically designed for the following:

Canadian and US Utilities, Electricity Generators, Distributors, Transmitters, Independent System Operators, Local Distribution Companies

Director of Smart Grid, Engineering, Network Communications, Smart Metering, Demand Response, IT and Communications, Security, Grid Operations, C-Level Executives

- **Create** security and resiliency against cyber attacks
- **Improve** electricity efficiency, reliability and security between Canada and US
- **Shape** standards and regulatory decision-making for interconnectivity
- **Incorporate** technologies to optimize assets and operating efficiency
- **Source** lessons learned, best practices and advice from peers and experts

Canadian and US Regulators, Federal, Provincial / State, Municipal Departments, Industry & Standards Associations

Market Assessment and Compliance, Regulatory & Government Affairs, Energy & Renewables, Senior Advisor, Policy Advisor

- **Connect** with your constituents
- **Collaborate** on cross-border interoperability
- **Develop** policies based on stakeholder feedback
- **Fulfill** your mandate

Canadian and US Utility Equipment Manufacturers of Smart Grid Products and Services, Legal and Advisory, Consultants

Alternative Energy, Distributed Energy Manufacturing, Energy Conservation, Energy Storage, Consultant, Researcher

- **Be short listed** on RFPs
- **Network** with decision-makers
- **Showcase** your cutting-edge leadership and research
- **Drive** innovation and progress
- **Expedite** the standardization process
- **Collaborate** on cross-border standardization best practices

Canadian and US Telecommunication, GIS, Sensors, AMI, Software and Equipment Hardware, Security Solutions

GIS, Sensors, AMI, Telecommunications, Software, Equipment Hardware, Security Solutions, Business Development, Sales, Marketing

- **Connect** with million-dollar spending budgets
- **Identify** standardization gaps and market needs
- **Influence** the regulatory decision-making that directly impacts you
- **Showcase** security solutions and software to help prevent cyber attacks
- **Drive** innovation and progress

Ensure your leadership with a customized sponsorship/ exhibit package

By sponsoring this one-of-a-kind event, you can showcase your company as an industry LEADER. Ensure your presence is known — be visible at this premier event! Select sponsorship packages are still available. To learn more, contact **Bill Lem** at **1-866-298-9343 ext. 250**, or email **bill@strategyinstitute.com**.

Hear what your peers have to say...

“Quality of speakers was excellent; quality of materials was excellent.”

Pat Bourne, *GM, CAREA*

“Motivating and thought-provoking.”

Tom Brackenbury, *Utilities Engineer, Utilities Kingston*

“I enjoyed the range of speakers and appreciated interacting with a number of utilities engaged in similar thought processes.”

Ted Cotton, *Business Solutions Manager Customer Projects, Manitoba Hydro*

“As a take away I will remember the experience other utilities have had as well as who I can contact for assistance.”

Richard Bassindale, *Project Lead, Asset Management & Planning, Horizon Utilities*

“Very instructive; gave me the chance to connect with key players.”

Benoit Masson, *Product IWE Manager, Cooper Power Systems*



Attend for FREE

Send 3 delegates and the 4th attends for FREE

Bring your team and benefit from special pricing: Develop strategies to ensure grid interoperability!

Ensure all members and staff of your organization understand the latest developments in smart grid interop by sending your team to this conference. Take this opportunity to develop a shared vision with them. Send your entire team and take your smart grid roadmap to the next level.

Tuesday, June 7th 2011

DAY ONE

7:45 AM Registration Opens and Continental Breakfast

8:30 AM Opening Comments From Chairperson

8:45 AM **STANDARDS LEADERS PANEL**

Navigating the International Standards Roadmap to Plan Your Business and Logistical Strategies

Hear the latest from standards representatives who have recently produced or overseen numerous new Smart Grid standards, and whose work is continually ongoing.

- Get a roadmap for the next five years and optimize your readiness for future standards and emerging trends
- Hear how Canadian standards and regulatory leaders are handling the country's unique geographic and market requirements
- Learn concrete strategies for ensuring compliance and compatibility with all relevant standards

Source the latest updates on industry standards so you can plan your strategy around them.



Ralph Zucker,
Executive Director,
SmartGrid Canada



Bill Bryans,
VP Technical Services, Electrical, **Electro Federation Canada**
Co-chair, **Canadian National Smart Grid Technology and Standards Task Force**



Keith Jansa,
Manager of Standards,
Canadian Electricity Association

9:45 AM **CASE STUDY: Pepco Holdings Inc**

Distribution Automation: New and Upcoming Challenges and Solutions to Improve Reliability

Distribution automation is one of the most crucial aspects of ensuring a reliable grid, and will only become more so as the infrastructure continually evolves and new industry standards take shape. Hear about PHI's success and learn:

- Concrete strategies for increasing secure communication both ways between substation and end devices on distribution lines
- Best practices for determining which new DA equipment to invest in, when to do it, and when to re-purpose or upgrade current assets for distribution automation
- Distribution automation start up challenges and solutions
- Expected improvements in feeder reliability performance

Hear innovative strategies for distribution automation to maximize the reliability and interoperability of your grid.



Joseph LoPorto,
Manager, Distribution Automation Program & Special Projects,
Pepco Holdings Inc. (DE)

10:30 AM Mid-Morning Networking Break

Enjoy a cup of coffee or tea while networking with your peers.

11:00 AM **CASE STUDY: Southern California Edison**

Interoperability of Demand Response Resources: Efficient and Cost-Effective Strategies

A key tool for utilities to manage daily system peaks is through demand response. As more smart meters are implemented and new technologies continue to emerge, source key strategies for success. Learn from this utility serving central, coastal and southern California.

- Facilitate customer communication via AMI to encourage smart energy use
- Concrete strategies for integrating demand response resources into your grid operations
- Best practices for industry standards such as IEC 61850 and Zigbee

Develop and strengthen your demand response efforts through best practices.



Kevin G. Wood,
Manager, Large Customer Programs, Systems and Technology,
Southern California Edison

11:45 AM **REGULATORS PANEL**

Partnering with Regulators in Building and Upgrading an Interoperable Grid

A must attend with regulators across Canada! Learn how different jurisdictions are responding to the interoperability challenge, and how they are working together with key stakeholders in developing critical infrastructure upgrades. Learn:

- How the infrastructure and market situation stand in each province
- How to ensure mutual collaboration and feedback with regulators
- Regulators' thoughts on the value of an interoperable grid vis-à-vis the investments required

Gain valuable insights into how regulations will affect your interoperability decisions.



Don Flintoff,
Senior Electrical Engineer,
British Columbia Utilities Commission



Willie Grieve,
Chair,
Alberta Utilities Commission



Brian Hewson,
Senior Manager, Network & Smart Grid,
Ontario Energy Board

12:30 PM Networking Luncheon

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



1:45 PM **INDUSTRY EXPERT: Security Design**

Ensuring Present and Future Grid Security: Designing, Maintaining and Planning Ahead

With ever more elaborate grid infrastructure comes increasingly serious potential threats to security and privacy. Hear from an industry leader and develop a roadmap for risk assessment and mitigation, including:

- How to incorporate the latest standards and best practices into your comprehensive security plan
- Best practices for collaborating with other utilities in preventing cascading breaches while maintaining your system's integrity
- How to respond to threats in real time and upgrade your grid's security capabilities while retaining your current assets

Prevent major threats to your grid security through strategic planning.

Lisa Kaiser,
*Director of Strategic Planning and Policy,
Control Systems Security Program,
US Department of Homeland Security*

2:30 PM **INDUSTRY EXPERT: Security Implementation**

Building Grid Security in Practice: State-of-the-Art Solutions to Protect Your Grid Operations

Hear how you can bolster the security of your grid operations through a comprehensive and systematic approach. Start-of-the-art solutions are available in developing and maintaining a security system that meets your interoperability requirements. Understand how you can:

- Ensure NERC-CIP compliance while meeting your utility's unique technological and geographical needs
- Leverage best practices for enabling secure and real-time data transfer throughout your distribution operations
- Develop a detailed checklist to plot out the details of your security strategy in the short and long term

Build best security practices into every aspect of your grid operations.



Andrew Ginter,
*Director of Industrial Security,
Waterfall Security Solutions*

3:15 PM **Networking Break**

Interact with conference speakers and fellow attendees. Secure important new business contacts and dialogue about crucial new developments in Smart Grid interoperability.

3:45 PM

Bridging the Gap to Smart Grid: How to Use Advanced Analytics to Ensure Stability and Reliability

Utilities currently face a host of next generation challenges that include AMI, renewable and EV integration, distributed generation, energy conservation and more. The move to modernize the grid also means more devices such as appliances and mobile communications. All these driving forces have the potential to create instability and raise reliability concerns. Hear how NI and its partners are working with utilities to enable distribution analytics and control, all the while ensuring a future proof Smart Grid.

- Leverage advanced analytics as a measurement and analysis tool
- Empower engineers with accurate distribution data
- Deliver consistent energy to your customers as you transition to new technologies
- Source lessons learned and best practices to guide your infrastructure upgrades



Jerry Hines,
*Business Development Manager, Energy Segment - Canada,
National Instruments*



Brad Luyster,
*Business Segment Manager,
Siemens Energy, Inc.s*

4:30 PM **CASE STUDY: BC Hydro**

Successfully Integrating Telecommunications Infrastructure onto the Grid

This utility recently engaged in a three-month pilot field project to determine the suitability of WiMAX technology for its applications, using Industry Canada's reserved 1.8GHz frequency. Learn about its challenges and solutions, plus take-away strategies to:

- Optimize utility applications that will advance the challenges posed by relevant regulations and industry standards
- Benchmark utility applications for integration of distributed generation on the distribution network
- Apply new technologies to conservation programs that leverage the smart meter

Leverage telecommunications interoperability best practices to optimize your use of Canada's dedicated broadband spectrum.



Sol Lancashire,
*Telecom Architect, BC Hydro
Chairman of the Board, Utility Telecom Council of Canada*

5:15 PM **Evening Social Activity**

Network with industry leaders and stakeholders while enjoying some of the best Toronto has to offer. Start by joining fellow delegates and speakers for complimentary appetizers in the hotel lounge.

Wednesday, June 8th 2011

DAY TWO

7:45 AM Registration Opens and Continental Breakfast

8:30 AM Day One Recap by Chairperson

8:45 AM **CASE STUDY: Austin Energy**

Renewable Energy Sources: Ensuring Grid Adaptability and Facilitating Easy Integration

Full integration of renewable energy sources is becoming more urgent by the day. Prepare your utility while there is still time! Hear how the ninth largest community-owned electric utility in the USA is integrating wind and solar power into the grid.

- Make the necessary adjustments to optimize grid flexibility and adaptability for new energy sources
- Source strategies to integrate distributed generation sources into your grid operations
- Identify key challenges and ways to overcome them, plus technology best practices

Take away a solid blueprint for adopting and adapting renewable energy sources into your grid.



Mark Kapner,
Senior Strategy Engineer,
Austin Energy (TX)

9:30 AM **E-CAR PANEL**

Plug-in Electrical Vehicles: Adapting and Innovating for Grid Interoperability

Plug-in electric vehicles (EVs) are rapidly emerging in the market and will act both as a load and a power source for your distribution infrastructure. Learn how to:

- Implement best plug-in charging standards to ease interoperability
- Use EVs for effective energy storage and to facilitate energy sell-back into the grid
- Prepare your pricing structure for EVs charging away from their home base

Identify fast-emerging trends and strategies to maximize EV possibilities for your utility.



Hawk Asgeirsson,
Manager of Power Systems Technologies,
DTE Energy (MI)



Tom Odell,
Manager, Electric Vehicles Project,
Toronto Hydro

More to come...

10:15 AM Mid-Morning Networking Break

Enjoy a cup of coffee or tea while networking with your peers.

10:45 AM **INDUSTRY EXPERT: Demand Response**

Commercial and Industrial Buildings: Implementing Interoperable Demand Response Applications

Over the past several years, a low cost communications infrastructure has been developed to improve the reliability, repeatability, robustness, and cost-effectiveness of demand response in commercial buildings. Hear about:

- Concrete Canadian and US examples of smart C&I buildings that have maximized grid efficiency and reliability
- The latest on automated components such as OpenADR and strategies for selecting components suited to your environments
- Best practices for ensuring coexistence among various applications and local-area network devices in C&I buildings

Gain an action plan to benefit from interoperable DR applications when connecting commercial and industrial buildings to the grid.



Sila Kiliccote,
Program Manager, Demand Response Research Center,
Lawrence Berkeley National Laboratory (CA)

11:30 AM **Interactive Peer-to-Peer Exchange Forum**

Plan and Execute Your Interoperability Roadmap for Success

Join a group of your peers to discuss the challenges, benefits and solutions of smart grid interoperability. Discussion points will include but not be limited to the following:

- What is the current status of interoperability in your organization?
- What is required to make interoperability a reality in your organization?
- Who are the key internal and external stakeholders?
- What are your thoughts on the current industry standards and initiatives?
- How can industry vendors and associations help utilities?

One person from each table will be nominated to share the findings with the rest of the delegates at the end of the session. Peer-to-peer sharing of experiences and brainstorming can result in increased collective knowledge of how to facilitate interoperability.

12:15 PM **Networking Luncheon**

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

Strategy Institute is proud to be a facilitator in connecting business and industry leaders in a variety of sectors for over 15 years. We strive to strengthen the foundation of Canada's economy through annual conferences such as "Asset Management for Utilities," "Smart Grid Interoperability Summit," "Smart Transportation Summit," "The Future of Canada's Infrastructure," and more. One of our higher purposes is to provide decision-makers with the knowledge and tools they need to provide good corporate governance, which will benefit stakeholders and ultimately the public good.

1:30 PM

CASE STUDY: Toronto Hydro–Electric System Limited

Building a “Smart Community”

Smart meters are only the beginning. Discover how to integrate your IT, Operations, Customer Service, and more to build complete integration among all aspects of your distribution. Learn how to:

- Test the reliability of your new technologies before they go public
- Optimize assets and end-use electronics for best energy storage capabilities
- Implement a comprehensive cost-benefit roadmap that takes account of all emerging technologies

Take away a practical blueprint for total utility integration in your service area.

Richard Ford,
Manager, Grid Solutions,
Toronto Hydro

2:15 PM

SMALL-TO-MEDIUM UTILITIES PANEL

Strategizing Effective Interoperability Initiatives for Small-to-Medium Utilities

Utilities serving smaller areas have unique challenges, but there are many initiatives, strategies and technological advancements well within reach. Join this session to hear how small-to-medium sized utilities are:

- Optimizing smart meters and demand response within their service areas
- Handling interoperability challenges throughout their grid infrastructure
- Addressing goals and challenges in modernizing the grid over the next five years

Take away the latest perspectives from experienced small-to-medium utilities, engaging the interoperability challenge.



Brian McMillan,
VP, Distribution Electrical Systems,
Greater Sudbury Hydro Inc.



Hani Taki,
Distribution Engineer,
Horizon Utilities



Baynish Bassett,
General Manager,
South Alta REA (AB)

The Smart Grid Interoperability Summit is part of a series of annual events designed to help Canada's power industry, regulators, policy makers, and stakeholders to overcome the challenges in making the smart grid a reality. This high-end conference was developed with the thoughtful input of industry leaders and features participation from utilities and experts around the globe.

As the largest conference dedicated to smart grid interoperability in Canada, the event brings peers together to share information, challenges, successes, and best practices. The goal is to give Canada's utilities a clearer vision on their interop road map, strategies and implementation. Utilities will walk away with the ability to better maximize grid reliability, security and return on investments.

3:15 PM Networking Break

Interact with conference speakers and fellow attendees. Secure important new business contacts and dialogue about crucial new developments in Smart Grid interoperability.

3:45 PM

INDUSTRY EXPERT: Semantic Modeling

The Common Information Model (CIM) and MultiSpeak: Semantics to Facilitate Interoperability

The CIM and Multispeak have emerged as core semantic modeling tools for facilitating exchanges of data within utility systems – increasingly necessary as the reliable and secure exchange of data becomes ever more central to the Smart Grid. Identify:

- Best practices for designing information interoperability into your grid components
- How semantic modeling can be applied to achieve information interoperability
- How to use the CIM and Multispeak individually and interoperably in utility planning and harmonization activities

Learn to understand and integrate all your technologies with these crucial tools.



John Simmins,
Senior Project Manager – Smart Grid,
Electric Power Research Institute (EPRI)

4:30 PM

Conference Adjourns

Woodbine Convention Centre

30 Vice Regent Boulevard, Toronto, Ontario
416-743-9997 • <http://www.parkinn.com/hotel-torontoca>

The Woodbine Convention Centre boasts an ideal location being only 8 minutes from Toronto Pearson Airport and an easy commute surrounded by major highways.

For attendees needing accommodations, attached to the Convention Centre is the newly built Park Inn hotel, featuring modern guest rooms with posturepedic beds, down pillows and duvets, Free high-speed, wireless Internet and plasma-screen televisions. A short walk across the road you'll find some great evening entertainment at Woodbine Race Track featuring slot machines, restaurants and live thoroughbred horse racing on June 8th. Woodbine Fantasy Fair Shopping Centre is short bus ride away for some great shopping!

Call the Park Inn Hotel directly before **May 25th** at 416-743-9997 to book our discounted conference rate of **\$80/night**



