

THE SMART GRID: FROM CONCEPT TO REALITY

A Conference for
Utilities, Consumers, and Technology Providers



June 10th, 2010

The Winnipeg Convention Centre
Winnipeg, Manitoba, Canada

Supported by

Manitoba Hydro, University of Manitoba, IEEE - PES Winnipeg Chapter, and the Province of Manitoba



THE SMART GRID: FROM CONCEPT TO REALITY

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This conference will be a platform for participants to explore and discuss the most significant changes to the power industry being driven by the march towards a Smarter Grid. Participants would:

- Learn from the executives involved in pilot smart grid programs
- Stay on the cutting edge of technologies enabling the Smart Grid
- Take away a roadmap of near and long term changes

Panel discussions and presentations to include Power Transmission Efficiency, Smart Grid Demonstration Project, Smart Grid and the Consumer, and Smart Grid Benefit to Stakeholders.

Speakers include:

- Ahmad Faruqui, Principal, The Brattle Group
- Andrew Roehr, Vice President, Smart Energy Services, Capgemini
- Bob Zavadil, Executive Vice President & Co-founder, EnerNex Corporation
- Bradley Williams, Vice President, Oracle Utilities Global Business Unit
- Dale Pennington, Managing Director, Utiliworks Consulting
- David Beauvais, Smart Grid Project Leader, CanmetENERGY, Natural Resources Canada
- Detlef Lange, CTO, Advantis Group
- Eric Mewhinney, Manager, Innovation and Sustainability, Smart Grid Development Program, BC Hydro
- Gary Rackliffe, Vice President, Smart Grid Development, ABB
- John D. Setala, Managing Principal, United Services Group, Great River Energy
- Krish Narendra, General Manager, Technology and Quality, ERL Phase Power Technologies
- Mike Irvin, GE Energy Smart Grid
- Nigel Wills, Managing Director, Manitoba Hydro International Ltd.
- Richard Kalisch, Senior Director, Technology Initiatives, Midwest ISO
- Tom Molinski, Emerging Energy Systems, Manitoba Hydro
- Tony Weekes, System Performance, Manitoba Hydro

The Conference will be of special interest to:

- All Canadian and American Utilities in the Mid-West ISO Region
- Renewable Energy technology providers
- Equipment and technology providers
- AMI, Smart metering solution providers
- IT and Communication backbone providers
- Officials from provincial and federal government and Regulatory organizations
- Consumer groups

Exhibition Booths

Networking Opportunities

CONFERENCE OVERVIEW

The electric power grid as it is configured today is set to witness large scale transformations driven by the need to be more efficient, green and cost effective. The successful evolution to a smarter, greener and more efficient grid depends on how well several challenges are met.

This conference will address the immediate and long-term challenges and opportunities for utilities, technology providers and the consumer in transitioning to a smarter grid. It will discuss the technologies enabling this change and the learning from pilot smart grid programs.

The goal is to provide participants a clear vision of what the grid of the future could look like, the benefits to all stakeholders and the road map for moving towards this smart grid.

To facilitate the sharing of ideas, this conference has been designed around three panel discussions. The panel discussions will feature presentations followed by a free flowing discussion of the topic.

- Panel 1 - "Integrating Smart Grid Technologies into Transmission Networks"

This panel will discuss how instrumentation and intelligence can be added to the existing bulk power transmission infrastructure to optimize power flows and make the system more flexible, resilient and efficient. It will also address the challenges of integrating the abundant renewable energy resources of this region to the grid.

- Panel 2 - "Smart Grid and the Consumer"

The focus of discussions will be on how the Smart Grid will be able to increase consumer choice and respond efficiently to these choices benefitting both utilities and the consumer. The two way flow of energy between the utility and the consumer enabled by plug-in electric vehicles will also be discussed.

- Panel 3 - "Smart Grid and Stakeholders Benefits"

While the benefits of a smart grid are driving change, upfront investments will add costs to the utility and the customer. This discussion centers on what these costs and benefits could be for the various stakeholders.

Two way flow of information across the grid will form the backbone of a Smart Grid. The conference will feature a presentation of how IT and communications are needed to integrate the grid.

AGENDA

7:45 a.m. - 8:30 a.m.	<i>Registration and Welcome</i>
8:30 a.m. - 8:45 a.m.	Ministers address
8:45 a.m. - 9:00 a.m.	Keynote address
9:00 a.m. - 10:00 a.m.	Panel Discussion #1 - "Integrating Smart Grid Technologies into Transmission Networks" Chair's address and introductions The MISO view of Smart Grid challenges NASPI – Looking at the future Presentation on Smart Grid Project by Xcel energy
10:00 a.m. - 10:30 a.m.	<i>Coffee Break</i>
10:30 a.m. - 11:30 a.m.	Panel Discussion #1 Continues Synchrophasors in WAMS Integrating Renewables Substation Digitization Instrumentation for the Grid
11:30 a.m. - 12:00 p.m.	Q&A and Panel Discussions
12:00 p.m. - 1:00 p.m.	<i>Lunch</i>
1:00 p.m. - 2:15 p.m.	Panel Discussion #2 - "Smart Grid and the Consumer" Chairs address and introduction BC Hydro presentation on Smart Grid Rollout AMI in Smart Grid City PHEV's and the Grid The Smart Home
2:15 p.m. - 2:45 p.m.	Q&A and Panel Discussions
2:45 p.m. - 3:15 p.m.	<i>Coffee Break</i>
3:15 p.m. - 3:40 p.m.	"Integrating the Grid - The Role of Communications and IT"
3:40 p.m. - 4:40 p.m.	Panel Discussion #3 – "Smart Grid and Stakeholder Benefits"
4:40 p.m. - 4:55 p.m.	ESAM Presentation
4:55 p.m. - 5:00 p.m.	Vote of Thanks
5:00 p.m. - 6:30 p.m.	<i>Cash Bar</i>
6:30 p.m. onwards	Dinner with Guest Speaker

REGISTRATION FEES

The registration fee is \$225 CAD per participant and includes lunch and the conference dinner. For registration details, please contact Kim Laing using the information below.

HOTEL INFORMATION

Conference accommodation can be booked with the Delta Hotels, Winnipeg. Delta Winnipeg is in the heart of downtown Winnipeg conveniently connected via skywalk to the Winnipeg Convention Centre and just steps away from Cityplace, Portage Place, and the MTS Centre.

Delta Winnipeg has offered special rates for the conference as per the details below.

ROOM TYPE	ROOM RATE
Delta Room	\$153.00 CAD

Rates quoted are per room, per night, single or double occupancy and based on availability at time of reservation. A charge of \$15.00 per additional adult will be added to the above rate, up to a maximum of four adults per room. All rates are in Canadian funds and are net, noncommissionable, and subject to the following taxes which may change without notice: 7% provincial sales tax, 5% goods and services tax and 5% accommodation tax. All guestrooms and rates are based upon availability at time of reservation.

Method of Reservation

Reservations can be made by calling the Reservations Department at 1-888-311-4990, by faxing to (204) 943-4627 or emailing their request to win.reservations@deltahotels.com. Requests must specifically include clarification of attending the Smart Grid Power Conference at the Winnipeg Convention Centre, to qualify for the rate. **Please mention promotion code 0610ERLP**. Confirmed reservations will be held until 4:00 p.m. on the scheduled arrival date unless designated as guaranteed, by an advance deposit or valid credit card number with expiration date.

Payment

Each individual will be responsible for paying for their own room, room taxes and all incidental charges prior to departure.

Delta Winnipeg Contact Information

350 St. Mary Avenue Winnipeg, MB R3C 3J2 Canada
T: 1-888-311-4990 F:1-204-943-8702
www.deltawinnipeg.com

CONTACT INFORMATION

For further information on Conference Registration, Exhibition Booths and Sponsorship Opportunities, please contact:

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