



Energy Council of Canada
Conseil canadien de l'énergie

Toronto Regional Event Energy Infrastructure: Issues, Opportunities and Implications

TORONTO | March 7 and 8, 2016

Allstream Centre, Exhibition Place, 100 Princes' Blvd

Energy infrastructure provides the essential connection between sources of energy supply and the end consumer of energy services. Canada's energy infrastructure is aging, and in some cases, its configuration is not suited to new ways of supplying and delivering energy. New pipeline infrastructure is the key ingredient for accessing new markets. Anticipated extreme weather events and cyber threats threaten linear and stationary energy infrastructure. Post COP-21, environmental policy directions will result in new constraints and implications for the energy sector overall. Perhaps the most worrisome and complex concern affecting energy infrastructure is finding ways to be able to move ahead with major energy projects through ensuring public understanding, open engagement, and ultimately, public acceptance.

A recent report by the World Energy Council shines light on important energy infrastructure issues. *The Road to Resilience – managing and financing extreme weather risks*¹ was issued on October 4, 2015. Chapters cover: Extreme weather - impacts on energy infrastructure; increasing the resilience of energy infrastructure; and, financing resilient energy infrastructures. This report will serve as background reading for the event.

The program will provide a multi-faceted examination of the challenges, issues, and potential future directions affecting energy infrastructure in Canada. Presentations will be made on infrastructure issues and opportunities from municipal, provincial, national perspectives and global perspectives.

The event will open with a reception and keynote address on the evening of March 7 on infrastructure issues such as the staggering estimates of the financial investment requirement in the electricity sector and the need to build in resilience in anticipation of the impacts of climate change.

Keynote and speakers in five sessions on March 8 will address:

- Energy infrastructure issues, recent developments, and upcoming infrastructure decisions. The essential, but often overlooked, role of energy infrastructure in ensuring competitiveness, access to markets;
- Municipal Perspectives - Role of energy infrastructure in ensuring safe and reliable energy at reasonable energy costs, meeting the energy needs of remote communities;
- Provincial Perspectives - Form and function of new energy infrastructure as a consequence of new energy technologies, energy storage, and real-time energy management, competitiveness, access to markets;
- National Perspectives - Climate impacts on existing and new energy infrastructure, building in resiliency, Insurance, competitiveness, access to markets. Ingredients needed to finance energy projects;
- Wrap-up of the highlights and “take aways” from the presentation and dialogues during the day.

We look forward to seeing you at this Energy Council event.

Bryan Kneller,
Chair, Program Committee, Energy Council

Graham Campbell,
President, Energy Council of Canada

¹ <https://www.worldenergy.org/wp-content/uploads/2015/09/The-Road-to-Resilience-Managing-and-Financing-Extreme-Weather-Risk.pdf>



Energy Council of Canada
Conseil canadien de l'énergie

Toronto Regional Event Energy Infrastructure: Issues, Opportunities and Implications

TORONTO | March 7 and 8, 2016

Allstream Centre, Exhibition Place, 100 Princes' Blvd

March 7 Day One – Opening Reception (*Lounge D*)

6:00 – 8:00 PM Welcome – Colin Andersen, Chair, Energy Council of Canada
Bryan Kneller, Senior Vice President, Ledcor Construction Ltd and Program Chair, Energy Council of Canada

March 8 Day Two – Toronto Regional Event Program (*Room 200AB*)

8:00 – 8:30 AM Registration & Breakfast

8:30 – 9:00 AM Welcome and Highlights from WEC report *The Road to Resilience – managing and financing extreme weather risks*, and *The 2016 Energy Issues Monitor*
Graham Campbell, President, Energy Council of Canada

Canada's Energy Policy Priorities:
Bob Hamilton, Deputy Minister, Natural Resources Canada

Message from The Honourable Kathleen Wynne, Premier, Province of Ontario

9:00 – 9:15 AM Overview of Infrastructure Issues & Opportunities

Energy infrastructure issues, recent developments, and upcoming infrastructure decisions
Todd Williams, Managing Director, Navigant Consulting Inc.

9:15 – 10:15 AM Energy Infrastructure - Municipal Perspectives

Role of energy infrastructure in ensuring, safe and reliable energy in municipalities and communities at reasonable energy costs

Session Chair: Anthony Haines, President and Chief Executive Officer, Toronto Hydro Corporation

Energy Infrastructure to Support Remote Communities

JP Gladu, President and CEO, Canadian Council for Aboriginal Business

Municipal Energy Infrastructure for Today and Tomorrow – Best practice, lessons learned

Paul Nardozi, General Manager, Construction, Toronto Hydro

Infrastructure Needs to Optimize Energy Storage

Annette Verschuren, Chair and CEO, NRStor Inc.

10:15 – 10:45 AM Coffee & Networking Break sponsored by NRStor Inc.

10:45 – 12:00 PM Energy Infrastructure - Provincial Perspectives

Form and function of new energy infrastructure at provincial scale – building for the future, new energy supply and technologies, real-time energy management, competitiveness, financing

Session Chair: Bill Smith, Senior Vice President, Technology and Major Business Development, Siemens Canada Limited

Energy Infrastructure Implications of New Energy Paradigms in Ontario

Kim Warren, Vice-President of Market and System Operations and Chief Operating Officer, Independent Electricity System Operator (IESO)

Transitions in Ontario's Physical and Commercial Natural Gas Infrastructure

Jim Redford, Director, Business Development and Upstream Regulation, Union Gas Limited

Leveraging The Canadian P3 Experience to Propel Energy Projects Forward

Johanne Mullen, Partner, Deals, Infrastructure and Project Financing, PricewaterhouseCoopers
Director, The Canadian Council for Public-Private Partnerships

12:00 – 1:15 PM Luncheon Keynote Address
Jaime Watt, Executive Chairman, Navigator Inc.
2016: Critical Energy Infrastructure Decisions

1:30 – 2:30 PM Energy Infrastructure - National Perspectives

Climate impacts on existing and new energy infrastructure, building in resiliency, Insurance, protecting cyber threats

Session Chair: Mark Sidebottom, Chief Operating Officer, Nova Scotia Power Inc.

Climate Change Impacts and Adaptation for Energy Infrastructure - Risks and Opportunities

Mary Preville, Director General, Strategic Policy and Operations Branch, Earth Sciences Sector, Natural Resources Canada

Managing Risk Through Collaboration: An Insurance Perspective

David McGown, Senior Vice-President, Strategic Initiatives, Insurance Bureau of Canada

Managing Cyber Vulnerabilities and Security Measures

Dina Kamal, Enterprise Risk Services, Deloitte LLP

2:30 – 2:50 PM Energy Infrastructure, Climate Policy, Path Forward

Dr. Jatin Nathwani, Professor, Ontario Research Chair and Executive Director, Waterloo Institute for Sustainable Energy, University of Waterloo

Lead for WISE – Energy Council Research Fellowships Program

2:50 – 3:00 PM Closing Insights and Remarks
Colin Andersen, Chair, Energy Council of Canada

Follow us on Twitter @EnergyCouncilCA #ECCInfrastructure

