

## Visit to Boundary Dam Plant: Carbon Capture and Storage Project

May 10, 2017

The resource-based economies of Canada's four western provinces contribute in a major way to their economic growth, employment, and support for social and health programs. Development of the region's diverse mix of fossil, hydro, uranium and renewable resources, together with aggressive conservation and energy efficiency programs, characterize the region's energy sector.

Clean energy has become a central policy goal as a pathway to both achieve provincial emissions reduction targets and to diversify provincial economies and to foster growth in green businesses, investment, and new types of jobs. Each jurisdiction has set aggressive goals to accelerate the transformation to clean energy and has developed programs and initiatives mirroring their policy preferences.

### Multiple Pathways to Clean Energy - Emerging Opportunities and Issues (May 8 and 9)

To advance the dialogue on the emerging energy-related opportunities and issues related to the transformation to clean energy, the Energy Council of Canada, together with its member organizations from the public and private sector across the region, have developed this conference on the theme **Multiple Pathways to Clean Energy in Western Canada**. The goals of the conference are: to profile the policies and initiatives underway, to better understand the "lessons learned" and the issues in play, and to find promising solutions towards achieving each jurisdiction's goals.

Three broad topics will be covered, two pertaining to individual jurisdictions, and one involving an emerging regional opportunity.

- **Transformation of electricity generation:** The diversity of the strategies and actions in each jurisdiction which are greening the generation mix will be discussed by the excellent first panel.
- **Climate Policy:** Each province has implemented climate policies matched to the characteristics of their energy sector and their policy design preferences. Issues to be aired are the track record to date of emissions reductions, the impact on energy prices, the interplay between provincial and national policies, and the outlook for carbon policy in the future.
- **Regional collaboration to build a western Canada electricity grid:** The opportunity agenda will be described and discussion will focus on developing the idea of a regional grid further, including supply and demand synergies, investments required, the implications for market operation and regulation, and the critical path ahead.

### Visit to Boundary Dam Plant: Carbon Capture and Storage Project (May 10, 2017)

Through the development of the world's first commercial-scale CCS project of its kind, SaskPower is making a viable environmental and economic case for the continued use of coal. Completed in 2014, the Boundary Dam Carbon Capture Project has transformed the aging Unit #3 at Boundary Dam Power Station near Estevan, Saskatchewan into a reliable, long-term producer of 120 megawatts (MW) of base-load electricity and can reduce greenhouse gas emissions by up to 1.3 million tonnes of carbon dioxide (CO<sub>2</sub>) each year. That's equivalent to taking more than 300,000 cars off Saskatchewan roads annually. Join us for a full day tour of this facility.

On behalf of the event Planning Committee, we look forward to your participation on May 8, 9 and 10.

Guy Bruce  
Chair, Planning Committee

Bryan Kneller  
Chair, Program Committee

Graham Campbell  
President, Energy Council of Canada

## May 8

**10:00 – 12:00 PM**      **Energy Council of Canada: Board of Directors Meeting** (Members Only-Separate Registration)

**1:00 – 4:30 PM**      **Natural Resources Canada Energy Futures Workshop** (Separate Registration)

**6 :00 – 8 :00 PM**      **Energy Council of Canada: Welcome**  
**Colin Andersen**, Chair, Energy Council of Canada

**Keynote Speaker: The Honourable Scott Moe**, Minister of the Environment, Saskatchewan

## May 9

**8:00 – 8:20 AM**      **Registration & Networking Breakfast**

**8:20 – 8:30 AM**      **Welcome and Update on World Energy Council Reports:**  
**Graham Campbell**, President, Energy Council of Canada

**8:30 – 9:30 AM**      **Energy Ministers' Panel**

**Session Chair: Deborah Yedlin**, Business Columnist, Calgary Herald

- **The Honourable Dustin Duncan**, Minister of Energy and Resources, Saskatchewan
- **The Honourable Margaret McCuaig-Boyd**, Minister of Energy, Alberta
- **The Honourable Cliff Cullen**, Minister of Growth, Enterprise and Trade, Manitoba

**9:30 – 10:30 AM**      **Energy Transformation**

The diversity of the strategies and actions in each jurisdiction which are greening the generation mix will provide an excellent opening session. How is each jurisdiction managing their increasingly-diverse generation fleet to match requirements in systems with a combination of centralized, distributed, base load and intermittent sources, and at the same time, to meet environmental and cost-effectiveness objectives?

**Session Chair: Mike Marsh**, President and CEO, SaskPower

- **Dr. John Barrett**, President and CEO, Canadian Nuclear Association
- **Allan Fogwill**, President and CEO, Canadian Energy Research Institute
- **Siegfried Kiefer**, Chief Strategy Officer, ATCO Ltd. & Canadian Utilities Limited and President, Canadian Utilities Limited

**10:30 – 10:45 AM**      **Coffee and Networking**

**10:45 – 12:00 PM**      **Climate Policy**

Each province has implemented climate policies matched to the characteristics of their energy sector and their policy design preferences. The range of GHG mitigation policies in place spans the policy spectrum - carbon regulation and the flow of funds to technology development, major technology investment in carbon capture and storage, transformation of the electricity generation mix and sectoral implications, GHG limits on specific sectors, carbon pricing and cap and trade regimes. Issues to be discussed are the track record to date of emissions reductions, the impact on energy prices, the interplay between provincial and national policies, and the outlook for carbon policy in the future.

**Session Chair: Martha Hall Findlay**, President and CEO, Canada West Foundation

- **Paul Kariya**, Executive Director, Clean Energy BC
- **Jack Mintz**, Director, School of Public Policy, University of Calgary
- **Leah Nelson-Guay**, CEO, First Nations Power Authority of Saskatchewan
- **Dave Sawyer**, Economist, EnviroEconomics

**12:00 – 1:30 PM**

**Lunch**

**Keynote Address: Kim Rudd**, Parliamentary Secretary to the Minister of Natural Resources

**1:30 – 3:00 PM**

**Regional Electricity Grid**

Western Canada has abundant fossil, uranium, hydro and renewable resources across the four provinces. To date, electricity generation, transmission, and distribution have been largely provincial matters, coupled with north-south electricity trade with neighbouring U.S. jurisdictions. Dialogue is underway on the idea of expanding regional electricity trade amongst the western provinces. A regional electricity transmission system would provide increased generation from hydropower, sharing of generation from renewables across the region, matching peak loads in one jurisdiction with supply from a neighbouring jurisdiction, and an increase in supply diversity.

**Session Chair: Kelvin Shepherd**, President and CEO, Manitoba Hydro

- **David Boyd**, Vice President, Government and Regulatory Affairs, MISO
- **Keith Cronkhite**, Senior Vice President, Business Development and Strategic Planning, NB Power
- **Jerry Mossing**, Vice President, Transmission, AESO
- **Niall O’Dea**, Director General, Electricity Resources Branch, NRCan
- **Douglas Opseth**, Director, Supply Planning and Integration, SaskPower

**3:00 – 3:15 PM**

**Coffee and Networking**

**3:15 – 3:45 PM**

**Keynote Speaker: TBD**

**3:45 – 4:00 PM**

**Closing and Upcoming Events: Colin Andersen**, Chair, Energy Council of Canada

**4:00 – 5:00 PM**

**Presentations**

- **Introduction to Boundary Dam III Site Visit**
- **International Carbon Capture and Storage Knowledge Centre**
- **Aquistore’s Deep Saline CO<sub>2</sub> Geological Storage Project**

**May 10**

**7:30 AM – 5:00 PM**

**Boundary Dam CCS Project, Courtesy of SaskPower**

Through the development of the world’s first commercial-scale CCS project of its kind, SaskPower is making a viable environmental and economic case for the continued use of coal. Completed in 2014, the Boundary Dam Carbon Capture Project has transformed the aging Unit #3 at Boundary Dam Power Station near Estevan, Saskatchewan into a reliable, long-term producer of 110 megawatts (MW) of base-load electricity and can reduce greenhouse gas emissions by up to 1.47 million tonnes of carbon dioxide (CO<sub>2</sub>) each year. That’s equivalent to taking more than 350,000 cars off Saskatchewan roads annually. The tour on May 10th will provide participants the opportunity to have a guided walk through of Boundary Dam unit 3 and the carbon capture test facility as well as go out to the storage site of Aquistore.

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