



# RENEWABLE ELECTRICITY CONFERENCE

## Conference on the Economics of Electricity Generation and the Environment

Renewable electricity generation capacity has increased substantially worldwide as installation costs fall and as regulatory policies that favour renewable resources are implemented.

Concerns over environmental emissions from fossil fuel generation technologies continue to grow effectively assisting the growth of the renewable electricity generation option.

However, renewable electricity generation remains costly compared to the alternative of generating electricity from non-renewable resources. Renewable electricity generation also relies on out-of-market subsidies, and is subject to substantial intermittency. These factors have the potential to adversely affect the economic and social value of renewable energy. Therefore, when implementing renewable resource policies, it is important to account for the associated costs and benefits of renewable resource integration in electricity markets.

This conference will bring together leading economists in the area of renewable electricity generation, with government officials, energy market regulators, and energy industry stakeholders to discuss and assess the costs and benefits of renewable technologies. Such a discussion is critical to promote the appropriate regulatory policies for renewable integration in electricity markets worldwide.

**May 28, 2015**

*Delta Bow Valley*

*209 - 4 Avenue SE  
 Calgary, AB T2G 0C8*

*Conference: 8:30 - 5:00*

*Dinner and Reception:  
 5:00 - 8:30*



### Companies who attended the 2014 conference on Restructured Electricity Markets include:

- Alberta Electric System Operator
- Alberta Energy
- Alberta Utilities Commission
- AltaLink
- ATCO Electric Distribution
- ATCO Power
- Borden Ladner Gervais LLP
- Direct Energy
- Enbridge
- ENMAX
- Market Surveillance Administrator



# Agenda

8:30-8:45 Registration

8:45 – 9:00 Welcome Remarks (Douglas West, Andrew Eckert, Bryndis Whitson)

9:00 – 10:00 Session 1: Assessing the Economics of Renewable Generation

**Donald Dewees** (University of Toronto)

*Discussant:* **Nicole Leblanc** (Director, Analytics and Forecasting, Alberta Electric System Operator (AESO))

10:00 – 10:15 Coffee

10:15 – 12:00 Session 2: Renewable Electricity

A one-two punch: Joint effects of natural gas abundance and renewables on coal-fired power plants

**Harrison Fell** (Colorado School of Mines)

*Discussant:* **Matt Ayres** (Deputy Administrator & Chief Economist, Market Surveillance Administrator)

Benefits of Electricity Trade between Alberta and British Columbia: Obstacles and Challenges to Integrating Wind Energy

**G. Cornelis van Kooten** (University of Victoria)

*Discussant:* **Tim Weis** (CanWEA (Canadian Wind Energy Association))

12:00 – 1:30 Lunch

**Bob Heggie**, Chief Executive, Alberta Utilities Commission



# Agenda

1:30 – 3:15 Session 3: Electricity and the Environment (*sponsored by ATCO Power*)

Inferring Carbon Abatement Costs in Electricity Markets: A Revealed Preference Approach using the Shale Revolution

**Erin Mansur** (Dartmouth University)

*Discussant:* **Carl Fuchshuber** (VP Commercial and Strategic Planning, ATCO Power)

Location, Location? Evaluating the Marginal Value of Climate Change Mitigation Strategies across Space and Time

**Meredith Fowlie** (University of California, Berkeley)

*Discussant:* **Ben Thibault** (Pembina Institute)

3:15 – 3:30 Coffee

3:30 – 4:15 Session 4: Electricity Demand Response

Knowledge is (Less) Power: Behavioral Economics and Electricity Demand Response

**David Rapson** (University of California, Davis)

*Discussant:* **David Brown** (University of Alberta)

4:15 – 4:45 Concluding Remarks

**Andrew Leach** (University of Alberta)

4:45– 6:00 Reception

6:00 – 8:30 Dinner (Speaker: TBA)

# REGISTRATION

## RENEWABLE ELECTRICITY CONFERENCE

### To pay by credit card:

Please go to <http://renewableelectricity.eventbrite.ca>

### To pay by cheque:

Please fax (403-282-4663) or email ([vanhorne@ucalgary.ca](mailto:vanhorne@ucalgary.ca)) registration form and send cheque payable to: "The Van Horne Institute" (The Van Horne Institute, 2500 University Drive NW, Calgary, T2N 1N4).

Item	Early Bird Rate Extended! (May 14, 2015)	Regular Rate	Total
<input type="checkbox"/> Full conference registration	\$400 including GST	\$475 incl GST	\$____CDN
<input type="checkbox"/> Full Conference Registration for Students	\$200 including GST	\$200 incl GST	\$____CDN
<input type="checkbox"/> Dinner Only	\$90 including GST	\$100 incl GST	\$____CDN

TOTAL \$\_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone #: \_\_\_\_\_

Email: \_\_\_\_\_

### Billing Information (If different from delegate)

Billing Contact Name & Title: \_\_\_\_\_

Billing Address: \_\_\_\_\_

**CANCELLATION & REFUND POLICY:** In order to offer conferences at attractive rates, the following is applied: Cancellations must be received by email by March 16, 2015 in order to receive a full refund. Cancellations after April 13th will be charged 50% of fee, Cancellations after May 4 will be charged 75% of fee, and after May 18, 2015, no refunds are granted.

**CONFERENCE QUESTIONS?** Contact Bryndis Whitson at 403-220-2114 or [bwhitson@ucalgary.ca](mailto:bwhitson@ucalgary.ca)

**REGISTRATION QUESTIONS?** Contact Gail Pellerin at 403-220-8455 or [vanhorne@ucalgary.ca](mailto:vanhorne@ucalgary.ca)

# Planning Committee

**Andrew Eckert;** Associate Professor,  
Department of Economics, University of Alberta

**Douglas West;** Professor of Economics,  
University of Alberta

**Peter Wallis;** President & CEO, Van Horne  
Institute

**Bryndis Whitson;** Manager, Strategic  
Development & Member Relations, Van Horne  
Institute

## About the Van Horne

The Van Horne Institute is recognized within Canada and internationally as a leading institute of public policy, education, and research in transportation, supply chain and logistics, and regulated industries.

The Institute was incorporated federally in 1991 as a not-for-profit organization, and was granted affiliation with the University of Calgary in 1992, The University of Alberta in 1998, SAIT Polytechnic in 2000, and with Athabasca University in 2005. Its Board of Directors brings together the experience and knowledge of a broad group of individuals representing all facets of the transportation industry, government, and the academic community that have an interest in transportation logistics and related regulatory issues.

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**THE VAN HORNE INSTITUTE**

## Hotel Information

If you require a hotel room at the Delta Bow Valley, please contact Bryndis Whitson at 403-220-2114 or [bwhitson@ucalgary.ca](mailto:bwhitson@ucalgary.ca) and she will assist in the arrangements.

## Sponsors

**ATCO** Power