



## Agenda and Speakers

Reshaping Energy 2017: Opportunities and Impacts of Reducing Canadian GHG Emissions • Apr 11–12, 2017 • Ottawa

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Tuesday, April 11, 2017

8:00 am Registration and Continental Breakfast

8:30 am Welcome and Review of Conference Objectives by the Chair



**Glen Hodgson**

Senior Fellow and Chair, Low Carbon Growth Economy  
The Conference Board of Canada

8:45 am Plenary Session 1  
**Canada's GHG Emissions Reduction Commitment and Strategy**

Session details to be advised.



**Representative from the Government of Canada**

*(Invited)*

**Speaker: To be confirmed**

9:15 am Plenary Session 2  
**Keynote Presentation: Consequences of the UN Paris Agreement and Marrakech Proclamation**

This keynote presentation will examine why the December 2015 Paris Agreement and the November 2016 Marrakech Global Action Proclamation are important from a global environmental perspective, as well as address the implications for fossil fuels' share of energy consumption and production. The agreement and partnership will give rise to a global adjustment, and Canada's role in this process will also be addressed.



**Dr. Hoesung Lee**

Chair  
Intergovernmental Panel on Climate Change (IPCC)

9:45 am Plenary Session 3  
**Highlights from the Conference Board of Canada Study of the Economic and Social Impacts from Transition to a Low Carbon Economy**

The estimated aggregate (Canada-wide) and provincial and regional economic and employment impacts from reducing Canadian GHG emissions in accordance with the objective implied by Canada's commitment to the Paris Agreement will be outlined. Comparison of the regional results will indicate regions that will bear the brunt of the overall impact.



**Craig Alexander**  
Senior Vice-President and Chief Economist  
The Conference Board of Canada

10:10 am Refreshment Break

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10:30 am Plenary Session 4  
**Impacts from Transitioning Crude Oil and Natural Gas Production**

This panel will address the results and implications of the Conference Board of Canada's study pertaining to the oil and gas production sector, both conventional and non-conventional. The speakers will also reflect on the time frames that will likely be required to accommodate major reductions in GHG emissions, the role of technology, and the economic and social consequences of the required transition.



**Introduction and Summary of Findings from the Conference Board Study with Reference to GHG Emissions Reductions in the Petroleum Sector**

**Moderator:**  
**Soheil Asgarpour**  
President, Petroleum Technology Alliance Canada, and  
Fellow of the CAE



**Reality Check 1**  
**Comments by the Alberta Government**

**Doug Lammie**  
Assistant Deputy Minister, Strategic Policy  
Alberta Energy



**Reality Check 2**  
**Comments on Economic and Social Impacts**

**Dr. Nicholas J. Rivers**  
Associate Professor, Graduate School of Public and International Affairs,  
Institute of the Environment  
University of Ottawa



### **Reality Check 3**

#### **Comments Regarding Possibilities and Time Frames**

**Dr. Dan D. Wicklum**

Chief Executive

Canada's Oil Sands Innovation Alliance (COSIA)



#### **Perspectives on the Role of Advanced Technologies**

**Dr. John Zhou**

Vice-President, Clean Energy

Alberta Innovates

12:00 pm Luncheon and Presentation

#### **The Pan-Canadian Framework on Clean Growth and Climate Change**

In his previous role, as Senior Associate Deputy Minister, Dr. Lucas was a major contributor to Canada's plan to meet the country's emissions reduction targets and grow the economy. He will outline the main elements of the plan, including the pan-Canadian approach to pricing carbon pollution, and measures to achieve emissions reductions across all sectors of the economy and foster development and adoption of technology to ensure that Canadian businesses are competitive in the global low-carbon economy.



**Dr. Stephen Lucas**

Deputy Minister

Environment and Climate Change Canada

1:30 pm Plenary Session 5

#### **Impacts from Transitioning Electricity Generation and Transmission Capacity**

This panel will address the results and implications of the Conference Board's study pertaining to the electrical energy sector. Participants will reflect on the time that will be required to accommodate major reductions in GHG emissions, challenges that will be faced in reconfiguring electric generation capacity, and the economic and social consequences (including electricity costs and prices). The panel will also address opportunities for investment in non-carbon energy sources and electricity transmission.



#### **Introduction and Summary of Findings from the Conference Board Study Specific to the Electric Sector**

**Moderator:**

**Jacob W. Irving**

President

Canadian Hydropower Association



#### **Alberta's Transition from Coal to Renewables, and Capital Market Implementation**

**Kate Chisholm**

Senior Vice-President, Legal and External Relations  
Capital Power Corporation



**Reality Check 1**

**Industry Perspective—What is Do-able and Time-frames**

**The Hon. Sergio Marchi**

President and Chief Executive Officer  
Canadian Electricity Association



**Reality Check 2**

**Comments— Economic and Social Impacts**

**Merran Smith**

Executive Director  
Clean Energy Canada



**Reality Check 3**

**Impacts on Costs, Prices, and Existing Assets**

**Rob Wilhite**

Managing Director, Energy Practice  
Navigant Consulting Inc.

3:00 pm Refreshment Break

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3:15 pm Plenary Session 6  
**Transportation Sector Impacts**

The panel will address the results and implications of the Conference Board's study pertaining to the transport sector. Participants will discuss technological improvements and changes that will be required to achieve major reductions in GHG emissions, what can be achieved in the short-to medium term versus the longer term, and particular challenges that must be met, as with biofuels and vehicular electrification. The essential role of behavioural changes will also be addressed.



**Introduction and Summary of Findings from the Conference  
Board Study Specific to the Transportation Sector**

**Moderator:**

**Louis Thériault**

Vice-President, Industry Strategy and Public Policy  
The Conference Board of Canada



### Reality Check 1

#### **How Technology Could Lower Industrial Road Transport Emissions**

**Karen Hamberg**

Vice-President, Strategy  
Westport Fuel Systems Inc.



### Reality Check 2

#### **Vehicular Electrification: Prospects and Implications**

**France Lampron**

Director, Transportation Electrification  
Hydro Quebec



### Reality Check 3

#### **The Role of Biofuels in Reducing Emissions**

**Andrea Kent**

Board Member Renewable Industries Canada  
Vice-President, Government Relations and Communications Greenfield  
Specialty Alcohols Inc.



### **The Critical Role of Behavioural Change**

**Ingrid Thompson**

Chief Executive Officer  
Pollution Probe

4:45 pm Keynote Address

#### **The Cost of CO<sub>2</sub> Abatement in Electric Power Generation in Ontario**

How much does it cost Ontario electricity ratepayers to not throw a ton of carbon pollution into our air? Anywhere between negative \$200, in which case ratepayers would save money, and positive \$900—which puts them way out of pocket.

It may surprise you to know that Ontario prefers the positive \$900 method—the most expensive one by far, and the one guaranteed to drive consumers to use the dirtiest energy.



**Stephen Edwin Aplin**

Vice-President, Energy and Environment  
The HDP Group Inc.

5:30 pm Networking Reception

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## Wednesday, April 12, 2017

7:45 am Continental Breakfast

8:15 am Opening Remarks from the Chair



**Glen Hodgson**

Senior Fellow and Chair, Low Carbon Growth Economy  
The Conference Board of Canada

8:30 am Plenary Session 7

### **Commercial and Residential Buildings Sector**

This panel will address the results and implications of the Conference Board's study pertaining to the buildings sector. Participants will discuss changes in design and technological improvements required to achieve required reductions in GHG emissions, the role of more efficient building codes, and what can likely be accomplished in the short-to medium term versus the longer term. The implications and challenges for local distributors of natural gas and electricity will also be addressed.



### **Introduction and Summary of Findings from the Conference Board Study Specific to the Buildings Sector**

**Moderator:**

**Dr. Andreas Athienitis**

Fellow, Canadian Academy of Engineering and Professor of Building Engineering  
Concordia University



### **Reality Check 1**

#### **Green Buildings as a Climate Change Solution**

**Thomas Mueller**

President and Chief Executive Officer  
Canadian Green Building Council



### **Reality Check 2**

#### **Achieving Improved Energy Use Efficiencies in Commercial Buildings**

**Nada Sutic**

General Manager  
QuadReal Property Group



### **Reality Check 3**

#### **How Public Policy is Supporting Transition to More Energy Efficient Buildings**

**Patricia Fuller**

Director General, Office of Energy Efficiency  
Natural Resources Canada



### How "Smart Communities" Will Make a Difference

**Milfred Hammerbacher**

Co-Founder and Chief Executive Officer  
s2e Technologies Inc.

10:00 am Networking Break

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10:30 am Plenary Session 8

### Industrial Sector Impacts and Opportunities

Panel members will address the results and implications of the Conference Board's study pertaining to the petroleum, cement, forest products, steel and chemistry industries. Participants will discuss the major challenges that their industry will face, the role of technological adaptation and innovation, the time that will be required to adapt, and potential opportunities.



### Introduction and Summary of Findings from the Conference Board Study Specific to the Industrial Sector

**Moderator:**

**Dr. Mark Summers**

Executive Director, Technology and Innovation  
Emissions Reduction Alberta (ERA)



### Natural Gas and Crude Oil Industry

**Alex Ferguson**

Vice-President, Policy and Environment  
Canadian Association of Petroleum Producers



### Cement

**Jonathan Moser**

Head, Environment and Public Affairs, Canada  
Lafarge Canada Inc.

### Forest Products

**Robert Laroque**



Vice-President, Climate Change, Environment, and Labour  
The Forest Products Association of Canada



### **Steel Production**

**Sean Donnelly**

President and Chief Executive Officer  
ArcelorMittal Dofasco



### **Chemistry Industry**

**Bob Masterson**

President and Chief Executive Officer  
Chemistry Industry Association of Canada

## 12:00 pm Luncheon and Keynote Presentation **Alberta's Focus on a Low Carbon Future**

Alberta has implemented a carbon tax and is working to reduce the carbon intensity of its electricity generation. The province has also announced and is currently implementing a broad range of programs and incentives to help industry and homeowners to transition to a low carbon future. This session will focus on the long term vision and short term actions the province is pursuing.



**Eric Anthony Denhoff**

Deputy Minister  
Alberta Climate Change Office

## 1:30 pm Plenary Session 9 **Facilitating Economic Growth During Transition to a Low-Carbon Economy**

This panel will speak to initiatives and policies that would help to ensure that economic growth can at least be maintained during the shift to a low-carbon economy, including expansion of the electricity transmission grid and measures to foster competitiveness and technological innovation and deployment.



**Moderator:**

**Glen Hodgson**

Senior Fellow and Chair, Low Carbon Growth Economy  
The Conference Board of Canada



### **Opportunities for Solutions Spearheaded by Canadian Governments and Industry that Could Provide a Canadian Advantage**

*(e.g. a Canadian hub for offsets; compliance mechanisms)*

**Doug Beever**

Director, Sustainability and Government Relations  
Agrium Inc.





### **Initiatives to Constrain Increases in Electricity Costs**

**Wayne Stensby**

Managing Director, Electricity Global Business Unit  
ATCO



### **Maintaining Competitiveness at Home and Abroad**

**Christopher Ragan**

Chair of Ecofiscal Commission, and Professor  
McGill University



### **Fostering Technological Innovation and Deployment**

**Leah Lawrence**

Fellow, Canadian Academy of Engineering and President and Chief Executive  
Officer  
Sustainable Development Technology Canada (SDTC)



### **Fresh Thinking About Low-Carbon Choices: How Renewed Emphasis on Nuclear Power Could Contribute**

**Dr. John Barrett**

President and Chief Executive Officer  
Canadian Nuclear Association

3:00 pm Networking Break

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3:30 pm Plenary Session 10  
**Next Steps: Identifying Required Policies and Actions**

The contributors will each reflect briefly on the important messages that they took away from the various panel sessions and the implications of those messages for policy-makers and industry strategists. This will be followed by discussion among the contributors, and with the audience, aimed at fleshing out and defining the essential "next steps".



**Moderator:**

**Glen Hodgson**

Senior Fellow and Chair, Low Carbon Growth Economy  
The Conference Board of Canada

**Contributors:**



**David R. Collyer**

Energy Consultant  
(formerly, President of the Canadian Association of Petroleum Producers)



**Peter Boag**

President and Chief Executive Officer  
Canadian Fuels Association



**Brent Gilmour**

Executive Director  
Quality Urban Energy Systems of Tomorrow (QUEST)



**Bruce Lourie**

President  
Ivey Foundation

4:30 pm Closing Remarks from the Chair



**Glen Hodgson**

Senior Fellow and Chair, Low Carbon Growth Economy  
The Conference Board of Canada

4:45 pm Conference Adjourns

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