

# **APPrO 2015**

## **CHANGE+OPPORTUNITY**

**27th Annual Canadian Power  
Conference & Networking Centre**

**November 17 & 18, 2015**

**Metro Toronto Convention Centre**

## **Advance Conference Program**



**Hon. Bob Chiarelli**  
Ontario Minister of  
Energy

**Hon. Glen Murray**  
Ontario Minister of  
Environment and  
Climate Change

**Rosemarie Leclair**  
Chair & CEO,  
Ontario Energy Board

**Hon. Sergio Marchi**  
President & CEO,  
Canadian Electricity  
Association

**Annette Verschuren**  
Chair & CEO,  
NRStor Inc.



**[www.appro2015.com](http://www.appro2015.com)**



*The electricity sector is entering a phase of unprecedented change. New drivers in technology, policy and regulation are transforming the determinants of success. What are the new rules of engagement? How will the new entrants affect your business in the sector? Be part of the process as key players address market evolution, the design of Ontario's cap-and-trade system, assess the potential for widespread growth of DG, DR, storage and microgrids, consider the challenges and opportunities of the duck curve, and much more:*

- Technology change and new players: How developers, investors and regulators are responding
- IESO market evolution initiatives
- The impacts of Hydro One/LDC restructuring
- Ontario's cap-and-trade system
- The latest on IESO procurement processes

## TUESDAY, NOVEMBER 17

### 8:00 am Daybreak Coffee

Hosted by APPrO 2015 sponsors

### 8:30 am Opening Remarks from the Conference Chair

Stephen Somerville, H2O Power LP

### 8:35 am The state of Ontario's power system – challenges and opportunities

Mike Lyle, Vice-President, Planning, Law and Aboriginal Relations, IESO

### 9:05 am Panel of experts on managing change from a generation perspective

- What are the really big technology changes, public policy directions and customer choices facing the electricity sector today?
- How should generators and other market participants, regulators and policy makers prepare for these changes?

Featuring:

Linda Bertoldi, BLG Canada: *Moderator*

Dan Dolan, President, New England Power Generators Association

Gavin Donohue, President, Independent Power Producers of New York

Evan Bahry, Executive Director, Independent Power Producers Society of Alberta

David Butters, President, Association of Power Producers of Ontario

Jason Chee-Aloy, Power Advisory LLC

### 9:45 am Coffee break

Hosted by APPrO 2015 sponsors

### 10:30 am Ensuring the regulatory system keeps up with the pace of change

**Keynote:** Rosemarie Leclair, Chair, Ontario Energy Board

- What kind of change is needed in Ontario's regulatory model?
- What Ontario is doing to ensure energy players are able to respond to transformation in the sector

### 11:00 am Preparing for the changes wrought by new technology

Paul Murphy, Chair, Advanced Energy Centre

- How key parties are preparing strategically for the advance of new technologies for power generation, transmission, distribution and energy management
- What's the net effect of all the new types of players likely to be?

- Advice for companies trying to get their bearings in a shifting market place

### 11:10am Regulators and technology change: A US perspective

Hon. Joseph T. Kelliher, Executive Vice President, Federal Regulatory Affairs, NextEra Energy Inc.; Former Chairman of FERC

### 11:20 am Putting Ontario's options in perspective

Gordon Kaiser, Energy Partners LLP, Former Vice Chair, Ontario Energy Board

### 11:30 am Questions and discussion

*Moderator:* Robert Warren, WeirFoulds LLP

### 12:00 pm Lunch in the Networking Centre

Hosted by APPrO 2015 sponsors

### 12:30 pm APPrO Annual General Meeting (Members only)

### 1:00 pm Meeting the challenge of a new long term climate change strategy for Ontario

**Keynote:** Hon. Glen Murray, Ontario Minister of Environment and Climate Change

Introduced by Adam Chamberlain, Borden Ladner Gervais LLP

### 1:20 pm Panel discussion: How to ensure a productive and workable system for cap and trade in Ontario?

*A multi-sector group of experts will share their insights on cap-and-trade: The state of play in Ontario and beyond; design options & potential impacts; and considerations for Ontario as it moves forward with implementation and linkages.*

Katie Sullivan, International Emission Trading Association (IETA): *The road to Paris, markets and linkages*

Duncan Rotherham, ICF International: *Natural gas supply/demand and distribution implications, potential impacts on Ontario and early implications on power and gas markets in California and Quebec*

Jessica Butts, The Delphi Group: *Key lessons learned for California and Quebec, allocation methodologies, use of revenue*

Robyn Gray, Sussex Strategy Group: *Stakeholder considerations for the power sector*

Craig Golding, Ontario Ministry of the Environment (invited): *Update from the Ministry*

Hon. John Godfrey, Special Advisor on Climate Change: *Attaining perspective*

*Moderator:* Lisa DeMarco, DeMarco Allan LLP



Hon. Joseph Kelliher  
NextEra Energy,  
Former FERC Chair

Bruce Campbell  
CEO, IESO

Duncan Hawthorne  
President & CEO,  
Bruce Power

JoAnne Butler  
VP, Market  
Development, IESO

Paul Murphy  
Chair, Advanced  
Energy Centre

Dan Dolan, President,  
New England Power  
Generators Assn.

Gavin Donohue  
President, IPPNY

## SIMULTANEOUS PROGRAMMING

### 1:30 pm Financing solutions to structural change

Julien Dumoulin-Smith, UBS: *The kinds of change financial markets are preparing for*

### 2:00 pm Update on Ontario's CHP programs

Darryl Yahoda, Director of Clean Energy Procurement, IESO

*Moderator:* Barry Chuddy, former CEO of Guelph Municipal Holdings Inc.

### 2:45 pm Options for National CHP policy

*Following the recent change of government in Ottawa, renewed national policy to encourage CHP may be of great interest to the industry. How can such advocacy work by the industry be best organized and focused? Models are readily available: The government of Canada has been a positive partner for CHP development in the past, and the US government is extremely proactive.*

- How Canadian policy has supported cogeneration and waste heat recovery in the past
- Options for structuring new measures and programs that would assist with Ontario-based CHP
- How the Canadian Energy Strategy provisions for CHP could be strengthened.

*Manfred Klein, Energy Consultant, MA Klein & Assoc.*

### 3:00 pm Coffee Break

Hosted by APPrO 2015 Sponsors

### 3:30 pm Does the system need to change further, and if so, how?

#### Keynotes:

### 3:30 pm How the IESO is helping to shape an evolving electricity sector

Bruce Campbell, CEO, Independent Electricity System Operator

### 3:50 pm How Bruce Power is responding to market change

Duncan Hawthorne, President and CEO, Bruce Power

### 4:10 pm Preparing for change: How customers are driving change on the electricity supply chain

Annette Verschuren, CEO, NRStor Inc.

### 4:30 pm Is Ontario entering Market Design 2.0?

*New cost control pressures combined with changes in the regulatory system are providing an early indication of the long term impact the Ontario government is likely to have on the*

*electricity sector. Considering the broad framework in which electricity policy operates, not just matters under the IESO's control, what are the implications for reallocation of powers, central agency restructurings, infusions of equity, and the integrity of the power market? Is there a need to re-examine the appropriate role of government in facilitating interprovincial trade in electricity? What advice does the energy industry have for the Minister in reforming the sector? What principles should guide the design of future procurement programs? A panel of experts discuss current concerns and respond to previous presentations.*

*George Vegh, McCarthy Tetrault*

*Mike Crawley, Northland Power*

*Paul Grod, Rodan Energy Solutions Inc.*

*Moderator:* Dwight Duncan, McMillan LLP

### 5:00 pm Reception in the Power Networking Centre

Hosted by APPrO 2015 sponsors

### 6:00 pm Banquet dinner

Co-hosted by Borden Ladner Gervais LLP & Northland Power

### 7:00 pm Banquet Keynote:

Hon. Bob Chiarelli, Minister of Energy

**Women in Renewable Energy (WiRE) Woman of the Year Award**

**The Hedley Palmer Award**

## WEDNESDAY, NOVEMBER 18

### 8:00 am Daybreak Coffee

Hosted by TransCanada

### 8:45 am Opening session

**Keynote** speaker: Patrick Brown, Leader of the PC Party of Ontario

### 9:00 am The National Perspective

**Keynote:** Sergio Marchi, President of the Canadian Electricity Association

### 9:15 am Setting market evolution priorities, today and in the future

*What can be done to make the market more reflective of real world investment requirements for both load customers and generators? What issues are likely to drive the next phase of market evolution? Opening segment featuring:*

*JoAnne Butler, Vice-President, Market and Resource Development, IESO*

*In conversation with Brian Rivard, Charles River Associates*



- How does the IESO currently determine its set of priority projects for market evolution?
- What options are possible for enhancing the process of priority-setting in the future?

## Follow-up panel of market participants:

Generator: Jasmin Bertovic, TransCanada

Consumer: Adam White, AMPCO

Trader: Jack Burkom, Brookfield Energy Marketing Inc.

Moderator: Brian Rivard, Charles River Associates

- Views on what should be the top priorities for market evolution
- What is the current thinking on Capacity Exports, Capacity Auctions, a new Market Vision, and the IESO's System refresh?
- Suggestions on how to improve the process of priority-setting

## 10:30 am Coffee break

Hosted by Veresen Inc.

## 10:45 am New and different expectations of the gas system: Foreseeing changes and planning to adapt

- The impacts of current and planned investments in gas infrastructure
- Changes expected in the ways gas is used, including for power exports
- Further specifics of the settlement agreement on Energy East
- How Large Final Emitters have addressed cap-and-trade in other markets

Moderator: Ian Mondrow, Gowlings LLP

John Wolnik, GSA Energy Company Inc.: *Overview of regulatory proceedings affecting generators*

David Teichroeb, Enbridge: *Why and how gas usage patterns may look very different in 15 years*

Shahrazad Rahbar, Industrial Gas Users Association (IGUA): *Industrial User Perspective*

Jessica Butts, The Delphi Group: *Cap-and-trade design options to address competitiveness in Ontario, lessons from California experience*

Tim Stringer, TransCanada PipeLines Ltd.: *Anticipated changes to mainline system capacities*

*Potential areas of discussion: How to deal with the five major areas of uncertainty (The impact of power system operation during nuclear refurbishment on demands for gas services, design of the cap-and-trade system, the structure of future procurement of gas-fired power, capacity market design, and the proliferation of distributed generation)*

Open discussion / Q&A period

## 12 noon Lunch in the Networking Centre

Hosted by APPrO 2015 sponsors

## SIMULTANEOUS PROGRAMMING

### 10:45 am Public engagement: Best practices from the voices of experience

*What principles underlie successful and effective public engagement? Where have successful proponents moved beyond the formulaic to truly meaningful forms of engagement?*

Moderator: John McGrath, McGrath Group

Richard Carlson, Mowat Centre

Nicole Swerhun, Swerhun I Facilitation and Decision Support

Caroline Pinto, Counsel Public Affairs

Brandy Giannetta, Canadian Wind Energy Association

Bob Stasko, Science Concepts International

### 1:00 pm Rising prices: Can anything be done to avoid a new political intervention?

*A senior opinion analyst looks at the potential of judgement tools to build social permission*

Greg Lyle, Innovative Research Group Inc.

Moderator: Pelino Colaiacovo, Morrison Park Advisors

### 1:30 pm The IESO's plans for procurement of renewable energy

Shawn Cronkwright, Director of Renewables Procurement, IESO  
Jim MacDougall, Compass Renewable Energy Consulting Inc.

### 2:00 pm Q&A moderated by Shane Freitag, Borden Ladner Gervais LLP

### 2:30 pm Coffee break

Hosted by APPrO 2015 Sponsors

### 3:00 pm How the politics of electricity will evolve

- What are the implications of the federal election in terms of energy policy?
- What are the most important energy choices that the government will have to face in the coming year?
- What's happening to the planning system?
- Are our systems for policy-making up to the challenge of a rapidly changing energy industry?
- What will it take to make the next 5 years a success in energy terms?

Moderator: Sean Conway, Gowling, Lafleur Henderson LLP and the Centre for Urban Energy at Ryerson University

Will Stewart, Navigator Limited

Rob Silver, Crestview Strategy

Tom Parkin, Sun National Columnist

### 4:30 pm "Networking Connector" Closing Reception

Hosted by Stikeman Elliott LLP





## The Energy Storage Forum: Building on Experience and Innovation

THE SECOND ANNUAL ENERGY STORAGE FORUM, NOVEMBER 17 – 18, 2015

CO-PRESENTED BY ENERGY STORAGE ONTARIO (ESO) AND APPrO

### TUESDAY, NOVEMBER 17

**9:45 - 10:00 am** Introduction to the two day Energy Storage Forum

Jake Brooks (APPrO) and Patricia Phillips (ESO)

**10:00 - 11:00 am** Energy Storage: Vision, Innovation and Opportunity

*What is the potential, vision and opportunity for energy storage? Get the compelling, big-picture view about the state of the art from experts with knowledge of current and future advancements.*

*Moderator:* Jon Dogterom, Venture Lead, Cleantech and Physical

Sciences Advisory Board, Advanced Energy Centre, MaRS  
Advanced Energy Centre, MaRS

Rob Harvey, Hydrogenics Corporation

Aaron Lampe, Temporal Power

Dan McGillivray, Centre for Urban Energy, Ryerson University

Nicolas Muszynski, Renewable Energy Systems Canada Inc.

**11:30 - 12:30 am** Outlook for Energy Storage in Ontario: Plans, Policy, and Climate Change

*The landscape for energy storage in Ontario has advanced significantly over the last two years. Find out the latest on energy storage in the Ontario power market, gain insight from current projects and perspective from other jurisdictions.*

*Moderator:* John Wright, Northland Power

Jason Chee-Aloy, Power Advisory

Ben Grunfeld, Navigant

Brian Hewson, Ontario Energy Board

Mark Wilson, IESO

**12:30 - 1:00 pm** Energy Storage 101: Everything you need to know about energy storage

*This presentation will provide participants with the basics about energy storage, including the services it provides to users, the benefits it can bring to generation, transmission, distribution, and microgrids.*

*Moderator:* Mark Tinkler, Senior Energy Consultant, Customized Energy Solutions

**2:00 - 3:00 pm** Storage in Action: Implementation Stories from Developers and LDCs

*Learn from experts who have been developing and building energy storage projects using different technologies, applications in a variety of environments. This is a key session to gain insight from experience.*

*Moderator:* Bala Venkatesh, Academic Director, Centre for

Urban Energy, Ryerson University

Gary Thompson, Toronto Hydro

Jason Rioux, NRStor

Shuvo Chowdhury, PowerStream

Johannes Rittershausen, Convergent Power

**3:00 - 3:30 pm** Exhibitor Presentations

**4:00 pm** Speed Networking hosted by WiRE (Women in Renewable Energy)

### WEDNESDAY, NOVEMBER 18

**9:00 - 9:10 am** Introduction and re-cap  
Rob Harvey (ESO)

**9:15 - 10:10 am** Project Finance: What you need to know

*Please join us for two back-to-back panel discussions that cover many facets of financing of energy storage projects. The first panel will consider financing challenges which arise from technological factors. The second panel will consider the importance of a coherent and sustainable energy policy needed to support a lasting energy storage market.*

**Panel #1: Technology Challenges**

Antonio Antonopoulos, REngenuity

Charles De Rancher, RaboBank

**Panel #2: Growth Challenges**

Jennifer Manning, NRStor

James Pagonis, Renewable Project Solutions

Sarah Simmons, Sussex Strategy Group

*Moderator:* Nina Mansoori, Torys LLP

**9:45 - 11:00 am** Keys to Building a Low-Risk Project: Learn from the insights and experiences of a variety of experts

*Join us as we explore the engineering, procurement, construction (EPC) and commissioning phases of project execution and identify the major risks that can be mitigated in project development.*

Francois Vitez, SNC Lavalin

Rob McIntyre, ElectroFed

Eric Tate, Eaton

Allison C. Miller, Aon

Kevin Whitehead, Whitby Hydro

Mark Siira, ComRent

*Moderator:* Darren Jang, Systems Engineer/Project Manager, National Research Council of Canada

**11:30 - 12:30 am** Behind the Meter Storage and MicroGrids: Empowering Opportunity

*Microgrids and behind-the-meter storage are proliferating thanks to a confluence of key conditions. Learn from developers and technology providers about these game-changers.*

Keyvan Cohaniam, Opus One

Walter Buzzelli, Panasonic Eco Solutions

Jayesh Shah, Oshawa PUC Networks Inc.

*Moderator:* Jennifer Hiscock, Integration of Renewable and Distributed Energy Resources Program, Natural Resources Canada

**12:30 - 1:30 pm** Lunch and Networking



## Yes, Please register me

for the 27th Annual Canadian Power Conference  
& Networking Centre

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## REGISTRATION FEES

### APPrO members:

Advance – September 24–  
November 13 (noon):  
\$1195

Onsite – November 13–18:  
\$1295

### Non-members:

Advance - September 24–  
November 13 (noon):  
\$1695

Onsite – November 13–18:  
\$1895

### Additional Banquet Dinner tickets (November 17) \$375

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### Become an APPrO member

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### Exhibit space in the Power Networking Centre

\$2,995 per booth (see  
Prospectus at [www.appro2015.com](http://www.appro2015.com))  
New APPrO  
members receive  
special savings on  
new booth packages.  
Contact us for full  
details!

### Power Networking Centre guest day passes for non-exhibitors (includes access to the APPrO Technical Conference):

Advance – to November  
13 (noon)  
November 17: \$75  
November 18: \$55

Onsite – after November  
13 (noon):  
November 17: \$95  
November 18: \$75

To book exhibit space  
contact carole.kielly@  
appro.org  
416-322-6549 ext 226  
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All above fees subject to  
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### Sponsorship and affinity promotion services available.

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### Hotel

Intercontinental Toronto Centre  
Special APPrO rate: \$199.00  
Reserve by phone: 416-597-1400 or  
1-800-496-7621  
Quote "L5Z" for special APPrO delegate  
rate  
Deadline: October 31, 2015.  
Full details at <http://goo.gl/AVmDnm>

### Travel

Porter Airlines is offering a 15%  
discount for APPrO 2015. Go to  
[www.flyporter.com](http://www.flyporter.com) or book through  
your travel agent using promo code  
APPrO15. Full details & restrictions at  
<http://goo.gl/AVmDnm>.

### Reduced Entry Fee Program:

APPrO is making full conference registrations available to a  
limited number of qualifying individuals at a reduced rate of  
\$95. For more information please see the [Reduced Entry Fee  
Program page on the APPrO 2015 conference website](#).

### Special dietary requirements:

If you have a special diet requirement, it is necessary to notify  
APPrO of your needs by November 6. Please indicate your  
preference below:

☐ Vegetarian ☐ Kosher ☐ Halal ☐ Other (please specify):



"We've been participating for the past twelve years. [APPrO is] one of the best industry events held here in Ontario year after year.

— Paul Grod, President Rodan Energy Systems



**APPrO**  
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POWER PRODUCERS  
OF ONTARIO

Presents the

## Power Networking Centre

Metro Toronto Convention Centre  
Toronto, Canada

**November 17 & 18, 2015**

Don't miss this opportunity to get in front of hundreds of the Canadian power gen industry's key decision makers and influencers at the most active networking hub in the business. Space is going fast so book now for the best locations!

Or register to attend the Power Networking Centre and get access to the Second Annual Energy Storage Forum, co-presented by Energy Storage Ontario (ESO) and APPrO. Held right on the exhibition floor, this year's theme is "Building on experience and innovation". An extension of the main APPrO conference, this two-day mini-conference is open to all trade show attendees. Just register for the Power Networking Centre and your pass will entitle you to the Energy Storage Forum and all the host events and great networking happening inside the exhibit hall. Go to the registration page at [www.appro2015.com](http://www.appro2015.com) to register now.

### EXHIBITORS ALREADY REGISTERED INCLUDE:

2G CENERGY Power Systems Technologies, Inc.  
Albarrie Geocomposites Ltd.  
APPrO  
CanACRE  
Canadian Nuclear Safety Commission  
Doherty Engineering Inc.  
Electrical Business Group  
Electro Rent LLC

Energy Storage Ontario  
Horizon Energy Solutions, Inc.  
Independent Electricity System Operator  
Natural Resources Canada (NRCan)/ITD  
Northwinds Solutions Group Inc.  
PowerTel  
Rodan Energy Solutions  
RONDAR Inc.  
RVA Lighting & Masts Inc.

Science Concepts International  
Solar Turbines Incorporated  
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Education & Career Action  
Valard  
Virelec Ltd.  
WiRE - Women in Renewable Energy

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