APPrO 2016
CHALLENGE + CHANGE

Advance Conference Program

28th Annual Canadian Power Conference & Networking Centre
Metro Toronto Convention Centre
November 15 & 16

Hon. Glenn Thibeault
Ontario Minister of Energy

Éric Martel
CEO, Hydro-Québec

Neetika Sathe
Vice President, Corporate Development, PowerStream Inc.

Bruce Campbell
CEO, IESO

Pat Brown
Leader, Ontario PC Party
New technology is coming into the power system. New players are moving in and new business drivers are taking over. Generators will make new allies and confront new competitors. Transmission and distribution utilities will be re-shaped and start operating in hybrid fields where the pace resembles IT more than civil engineering. Regulatory rules and public policy will be challenged to stay current. Omni-channel relationships will be central to every business model. APPrO 2016 is where leading players will form their plans and address what’s needed to thrive in the power market ahead.

TUESDAY, NOVEMBER 15

7:30 a.m. Registration opens

8:00 a.m. Daybreak Coffee
Daybreak Coffee hosted by McCarthy Tetrault

8:30 a.m. Opening Remarks from the Conference Chair
Stephen Somerville, H2O Power LP

8:35 a.m. Opening keynote
Éric Martel, CEO of Hydro-Québec

9:00 a.m. Setting directions: What generators are concerned about
• Brief overviews from key players: What are the most critical issues decision-makers will need to face in the next 18 months? Technology changes, public policy choices, and evolving customer relationships are starting points.
• How should generators, other market participants, regulators and policy makers prepare for these changes?
Featuring:
Dan Dolan, President, New England Power Generators Association (NEPGA)
Dave Butters, President of APPrO, Association of Power Producers of Ontario
Paul Kariya, Executive Director, Clean Energy BC
Jon Norman, Brookfield Renewable
Linda Bertoldi, BLG Canada: Moderator

9:30 a.m. The Forces of Change
What’s ahead for the power industry, and which forces for change are most likely to shape the agenda? What does the utility of the future look like? Which of the traditional utility functions will be taken over by non-utility players? How will simultaneous decarbonization and expansion of electrical infrastructure play out against all the other shape-shifting going on? How will the wholesale market need to adapt to reflect technology change?
Moderator: Mike Crawley, Northland Power
Paul Murphy, Advanced Energy Centre, MaRS
Neetika Sathe, Vice President, Corporate Development, PowerStream Inc.
Paul Tyno, Buffalo Niagara Medical Campus, and Peak Load Management Alliance
George Vegh, McCarthy Tetrault LLP
Brief opening comments followed by interactive discussion addressing areas like the following:
What changes are most likely to disrupt the business in your view?
If a power company wants to thrive in the market ahead, on what principles will it need to build its future business?
What impacts do you see on the operation of the market from decarbonization?
Is response capability likely to significantly displace capacity as a desired characteristic of new resources?
How is the value proposition for purchasers of electricity likely to change as we go through this transition?
What forms of procurement work best in a volatile, changing and fragmented market like this?
What can government and other stakeholders do to help prepare the public for the changes ahead?

10:15 a.m. Coffee break
To be hosted by APPrO 2016 sponsors – click here for information on how to sponsor this event.

10:45 a.m. The Culture of Change: Leveraging emerging professionals
How to deploy the full potential of a new generation of professionals and what research tells us about how they can help organizations gain strategic advantage.
Mabel Fulford and Reena Goyal, Young Professionals in Energy

11:00 a.m. Keynote: Bruce Campbell, CEO of the IESO
11:15 am  The Planning Framework under stress  
Ontario’s LTEP: Where it stands and where it’s likely to go. Making planning more proactive and meaningful, considering the changing landscape and risk factors. How would the grid respond to increased electrification? Key stakeholders active in the planning process will address the current status of the LTP and the public consultation process around it.  
How well is Ontario’s planning process set up to:  
a) Co-ordinate the LTP, regional plans and the system’s technical requirements  
b) Ensure electricity requirements are reflected in municipal land use plans  
c) Align with public expectations as per the “Engaging Local Communities in Ontario’s Electricity Planning Continuum” report of August 2013  
d) Recognize and manage risk.  
Moderator: Sean Conway  
Dan Goldberger, Perpetual Energy Solutions: Key messages extracted from comments on LTP received by APPrO to date  
Michael Reid, Assistant Deputy Minister, Strategic, Network and Agency Policy Division, Ontario Ministry of Energy  
Jason Chee-Aloy, Power Advisory LLP

1:20 pm  Panel discussion: How to ensure a productive and workable system for cap and trade in Ontario?  
• The impact of Ontario’s cap and trade regime on energy markets  
• Options for improving the mechanics of Ontario’s cap and trade system  
• Are we organized to ensure money is spent in the most effective way possible on energy infrastructure?  
• How does CCAP square with the LTP?  
A multi-sector group of experts will share their insights on cap-and-trade and related aspects of the Climate Action Plan: The state of play in Ontario and beyond; design options & potential impacts; and considerations for Ontario as it moves forward with implementation and linkages.  
Moderator: Adam Chamberlain, BLG Canada  
Duncan Rotherham, ICF International: Ontario’s CCAP and LTP - where synchronicity is apparent and not and the prospects for electrification  
David Nussbaum, Evolution Markets Inc.: Design advice from experience in US carbon markets  
Joan Byng, Union Gas Limited  
Owen Schneider, Enbridge Gas Distribution

12:00 pm  Lunch in the Networking Centre  
To be hosted by APPrO 2016 sponsors – click here for information on how to sponsor this event.

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

1:00 pm  The role of cap and trade in meeting the challenge of a new long term climate change strategy for Ontario  
Heather Pearson, Ontario Ministry of Environment and Climate Change
What makes Ontario attractive?
M&A, refinancing, take-outs and LRP
How are people going about funding small projects?
Trends and rates of return for take-outs and asset sales
Does the Climate Action Plan make it easier or harder to finance new infrastructure?

*Moderator:* Chris Ball, Corpfinance International

Jeff Norman, Algonquin Power Co.
Gaurav Mittal, Canada Life
Matt O’Brien, Connor, Clark & Lunn Infrastructure
Alain Longpré, Natixis

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6:00 pm  *Banquet dinner*
Co-hosted by Borden Ladner Gervais LLP & Northland Power

7:00 pm  *Banquet Keynote:*
Hon. Glenn Thibeault, Minister of Energy

Women in Renewable Energy (WiRE) Woman of the Year Award
The Hedley Palmer Award

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8:00 pm  *President’s Mixer*
Hosted by Stikeman Elliott LLP

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**WEDNESDAY, NOVEMBER 16**

7:30 a.m.  *Registration opens*

8:00 a.m.  *Daybreak Coffee*
Hosted by TransCanada

8:45 a.m.  *Opening session*
Keynote speaker: Patrick Brown, Leader of the PC Party of Ontario

9:15 a.m.  *Setting market evolution priorities, today and in the future*
*Market participants share their perspectives:*
- What kind of market renewal is important to the major categories of market participants?
- Where do they see the market going?
- Can the market operate efficiently with all the new requirements implied by the climate action plan?
- What do each of the stakeholders mean when they talk about achieving good governance?
- Is there a viable business model for distributed power trades operating in parallel with the current wholesale...
market?
• What should be in the brief and mandate for the regulator and the grid operator?

To contribute to the development of the agenda for this session please visit the open discussion pages on LinkedIn at this location.

**Moderator:** Brian Rivard, Charles River Associates
JoAnne Butler, Vice-President, Market and Resource Development, IESO
Judah Rose, ICF International
Mark Passi, AMPCO, Association of Major Power Consumers in Ontario
Rob Coulbeck, Goreway Power Station
Sarah Griffiths, EnerNOC

**SIMULTANEOUS BREAKOUT**

10:00 am  Meeting of Ontario’s CHP Consortium, hosted by QUEST
*Moderator:* Richard Laszlo, Director, Research & Strategic Initiatives, QUEST

10:15 a.m.  Coffee break
Hosted by Veresen Inc.

**IN THE POWER NETWORKING CENTRE**

10:30 am  Cybersecurity for generators: Why meeting NERC standards is no longer sufficient
*For details see [Cybersecurity session outline](#) below within the APPrO Technical Conference.*

10:45 am  Renewable Energy Procurement
• Implementation issues with LRP I and lessons learned
• The framework for future renewable procurement, including procurement process options under consideration
• Ontario’s net metering regulation - opportunities and challenges

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

*Moderator:* John Vellone, Borden Ladner Gervais LLP

12 noon  Lunch in the Networking Centre
*To be hosted by APPrO 2016 sponsors – click here for information on how to sponsor this event.*

1:00 pm  Keynote: Dianne Saxe, Environmental Commissioner of Ontario

*Dr. Dianne Saxe has never been shy to state her views, and this November she will be tabling her first report on the province's Climate Change program. At the APPrO conference she will share her thoughts on the system for overseeing the development of Ontario’s Long-Term Energy Plan (LTEP). Ontario’s Environmental Commissioner is a Legislative Officer with wide scope to review and comment on public policy and government programs.*

1:30 pm  Report from Alberta

*How is the market shaping up? The Renewable RFP? Advice for the NDP.*

*Moderator:* Pelino Colaiacovo, Morrison Park Advisors
Kris Aksomitis, Power Advisory LLC
John Kousinioris, Chief Legal and Compliance Officer and Corporate Secretary, TransAlta Corp.
Evan Bahry, Independent Power Producers Society of Alberta

2:30 pm  Coffee break
*To be hosted by APPrO 2016 sponsors*

3:00 pm  How the politics of electricity will evolve

• If a governing party wants to thrive in the market ahead, on what principles will it need to build its policy framework?
• Will energy sector disruption cause political disruption or vice versa?
• What are the realistic new opportunities for additional federal-provincial policy collaboration?
• Is federal regulation evolving in ways that recognize what’s happening in Ontario?

*Moderator:* Dwight Duncan, McMillan LLP
Mark Cameron, Canadians for Clean Prosperity
Aaron Dobbin, StrategyCorp Inc.
Mike Van Soelen, Navigator Limited
Peter Tabuns, MPP
Creative Disruption Symposium
Parallel APPrO conference on technology and innovation
November 15 & 16

New technology is going to re-shape the electric power system. This is the place to find out how it will work, hearing directly from the innovators with business plans already in motion. Distributed Generation, storage, Small Modular Reactors, micro-grids, Demand Response and more.

Storage: What are the near-term prospects for additional deployment?
Demand Response: Is it likely to grow more quickly than the rest of the system?
The role of Microgrids in expediting deployment of new technologies
PV and other forms of distributed generation: Relative or absolute cost declines?

TUESDAY, NOVEMBER 15

10:45 am  Electrifying transportation: Evolution or revolution?
How is electrification of transportation likely to change the system? The greening of transportation via use of electricity or electricity derived fuels is being incentivized by government to advance the de-carbonization agenda. Will this be implemented in an orderly fashion driven by economics or will it be a free for all with unintended consequences? This session will explore various scenarios – with special emphasis on potential impacts on the Ontario grid.

Moderator: Bob Stasko, Science Concepts International
Andrew Pietrewicz, IESO: Early analysis on impacts of EV uptake
Bob Oliver, Tech K.O.: How Germany is electrifying its railways with hydrogen, and why it matters to Ontario
Cara Clairman, Plug N Drive: Government policy on PEV adoption in Ontario
Matt Fairlie, Hydrogen Business Council: Work with automakers to build out H2 infrastructure
Dan Guatto, Vice President, Burlington Hydro Inc. (invited): EV integration

1:15 pm  The disruptors: How new players will change the game
To understand the transformation ahead you need to know what each of the new players has to offer, what makes them tick, and how they could impact the system going forward.

Moderator: Dan McGillivray, Ryerson University
Sunita Chander, Ontario Ministry of Energy: How Ontario can be a world leader in transformative technology

Mark Tinkler, Customized Energy Solutions: Energy storage planning
J. Christopher Reid, Rodan Energy Solutions Inc.: The potential for expanded use of Demand Response
Jeffrey Veltri, Temporal Power Ltd.: Developing replicable business propositions in Ontario
Neil Alexander, Bucephalus Consulting: Small Modular Reactors - Why they could shake up the energy landscape

2:30 pm  Coffee break

3:00 pm  Micro-grids and the LDCs of the future
- How are micro-grids likely to fit in as part of the evolution of LDCs?
- Can they be a part of LDCs and an alternative to LDCs at the same time?
- Do they represent a viable market for generation and storage?
- What kinds of steps should LDCs consider to reflect the new realities?

Moderator: Todd Williams, Navigant
Todd Wilcox, North Bay Hydro and Chair, Electricity Distributors Association
Roger Lin, NEC Energy Solutions Inc.
Keyvan Cohanim, Opus One
Andrew Melchers, Siemens Canada Limited

4:15 pm  Speed Mentoring
Hosted by WiRE (Women in Renewable Energy)
WEDNESDAY, NOVEMBER 16

Joint presentations offered as part of APPrO 2016 and the Symposium on Creative Disruption

9:00 am    The evolving connection assessment and planning process in Ontario
Bob Chow, Transmission Integration, IESO: Regional Planning as it relates to project development
Ahmed Maria, Market and System Operations, IESO: The Connection Assessment process
Travis Lusney, Power Advisory LLP: Connection Assessment experience
Moderator: Patrick Duffy, Stikeman Elliott LLP

10:00 am   Coffee break

10:30 am   Cybersecurity for generators: Why meeting NERC standards is no longer sufficient
How cyber threats are evolving
How is the proliferation of DG and smart grid technology changing the risk profile for the system as a whole?
How investments are predicated on risk profile
The OEB Cyber-Security Framework policy consultation
Stuart Wright, Ontario Energy Board
Jason Hammerschmidt, IESO
Carl Hayes, Vice President, Stratejm Inc.
Moderator: Ruby Rai, AIG Canada

The APPrO 2016 program is evolving as you read these words. Share your important insights and industry intel #APPrO2016 Propose your suggestions for issues that need to be addressed at APPrO 2016. We’re listening! More info at http://conference.appro.org

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More info at www.appro2016.com
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for the 28th Annual Canadian Power Conference & Networking Centre

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REGISTRATION FEES

APPrO members:
Advance – to November 11 (noon): $1195
Onsite – November 11 (noon) – November 16: $1295

Non-members:
Advance – to November 11 (noon): $1695
Onsite – November 11 (noon) – November 16: $1895

Additional Banquet Dinner tickets
(November 15) $395

All above fees subject to 13% HST

20% Volume Discount
Five people registering from the same organization at the same time receive a 20% discount.
Contact soraya.rivera@appro.org for registration assistance.

Sponsorship and Exhibit space
Exhibit space in the Power Networking Centre is limited and available through APPrO sponsorship only.
APPrO members receive special savings on new booth packages. Contact us for full details!

To book exhibit space contact:
carole.kielly@appro.org
416-322-6549 ext 226
www.appro2016.com

Power Networking Centre guest
day passes for non-sponsors
(includes access to the Creative Disruption Technical Symposium):
Advance – to November 11 (noon):
November 15: $150
November 16: $100
Both Days: $ 249
Onsite – after November 11 (noon):
November 15: $200
November 16: $100
Both Days: $ 350

Complimentary Access to
Power Networking Centre
and the Creative Disruption Technology Symposium:
Select APPrO Sponsors (and exhibitor sponsors) are allocated complimentary day passes for their staff and guests. If you’d like to visit a particular sponsor, contact them to request complimentary day access to the Power Networking Centre.

Sponsorship and affinity promotion services available.
Sponsorship prospectus available online at www.appro2016.com
Contact Carole Kielly at carole.kielly@appro.org for details.

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 2016 conference website.

Hotel:
Hotel Intercontinental Toronto Centre
Reserve:
Online: bit.ly/reserve_intercontinental
By phone: 416-597-1400 or 1-800-496-7621
Quote “APPrO” for the special rate: $205.
Book your room by the October 31 deadline for a chance to win a night at the Intercontinental!
Full details at bit.ly/appro2016hotel

Travel

Special dietary requirements:
Notify APPrO of any special dietary requirements by November 6 to avoid disappointment. Karla.Martinez@appro.org

Please indicate your preference below

☐ Vegetarian ☐ Kosher ☐ Halal ☐ Other (please specify): _________________________________
Check out what’s in store at APPrO 2016

Not able to participate as a sponsor or exhibitor at APPrO 2016? Advertise in the Networking Guide and be seen by APPrO’s delegates: several hundred focused power industry professionals across all commercial technologies. All in one place at one time over two days of incredible programming and great networking opportunities. Also available: space in the special bonus conference distribution of IPPSO FACTO. Download the advance Power Networking guide: bit.ly/power_networking_guide.

Download the ad rates and specs: bit.ly/appro2016_ad_rates

APPrO 2016 exhibiting sponsors include:

- CanACRE
- Carleton University Co-operative Education
- CWB Maxium Financial
- Electricity Distributors Association
- Energy Storage Canada
- EPS AB Energy Canada Ltd.
- Horizon Energy Solutions
- Mark’s Commercial
- PowerTel Utilities Contractors Limited
- Rodan Energy Solutions Inc.
- Team-1 Academy
- University of Waterloo
- Women in Renewable Energy
- Young Professionals in Energy

Speed Mentoring

APPrO and WiRE present “Speed Mentoring” for students and developing professionals interested in power careers.

This event is sponsored by NRStor and takes place inside the Power Networking Centre at APPrO 2016 on November 15. Space is limited so book your spot as a mentor or mentee now!

Full details at: bit.ly/APPrO_Speed_Mentoring

WHO SHOULD ATTEND APPrO 2016?

- Generators
- Distributors
- Project Developers (all technologies)
- Major power consumers
- Regulatory agencies
- Municipalities
- Aboriginal groups
- Consultants
- Engineers
- Financiers, investors or lenders
- Business Development professionals
- Equipment suppliers
- Planners
- Economic Development Officers
- Project hosts
- Community groups
- Students considering a career in power generation
- ... and anyone with business or an interest in the future of the electricity sector.

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