Innovation and Disruption

Solving for X

Preliminary Conference Program

Hon. Greg Rickford
Minister of Energy, Northern Development & Mines.
Minister of Indigenous Affairs

Jeff Lyash
President & CEO, OPG

Peter Gregg
President & CEO, IESO

Dawn Farrell
President & CEO, TransAlta Corp.

Bob Ethier
Vice President, Market Operations, ISO New England

Keith Sones
Vice President, National Business Development, Valard Group

APPrO 2018
30th Annual Canadian Power Conference & Networking Centre
Westin Harbour Castle
Toronto
November 12 & 13

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What is the Annual Canadian Power Conference & Networking Centre all about?

Powerful Players
Energizing Ideas
New Technologies
Productive Networking

The Ontario power industry is facing unprecedented challenges. Technology is reshaping the range of services that can be delivered at the grid edge and creating boundary-shattering opportunities for new types of players to operate in the electricity space. The new political landscape in Ontario impacts everything from the emission regime to planning processes. No one can afford to overlook the effect new technology and public policy is having up and down the value chain.

Join your colleagues to hear the latest on policy directions, business strategies, regulatory intentions, and partnership opportunities. Whether you represent a major generator, or supply equipment and services to Ontario generators - you’ll want to be part of APPrO 2018, Innovation and Disruption, Solving for X on November 12 & 13 at the Westin Harbour Castle Conference Centre in Toronto!

Don’t miss a moment!

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The APPrO Power Conference is a key event for energy sector players in Ontario. Attendees can always count on valuable networking opportunities, informed speakers and timely updates on industry developments.

— Bonnie Hiltz, Director, Power and Utilities, Sussex Strategy Group
Who Attends the APPrO Conference?

APPrO 2018 will host the key players from the leading-edge companies in Ontario’s electricity sector. There is no other event in Canada that provides such a diverse and high-quality audience — in one place at one time — across the full spectrum of power supply technologies.

33% Generators / Developers
3% Manufacturers / Vendors
7% Distributors
15% Energy Consultants
15% Governments / Regulators
3% Lawyers
1% Community groups
1% Other: Academia, Project Partners, Energy Marketers, Media

“Attending the Canadian Power Conference is key to getting the pulse of the Ontario power market.

At APPrO you will hear from the most expert and thoughtful speakers, while making connections with important industry people who can help move your business forward. It’s also the best place to re-connect with colleagues and clients across the spectrum of the generation industry. By far it’s one of the leading industry events of its kind.”

— Benjamin Grunfeld, Managing Director, Navigant
MONDAY, NOVEMBER 12

8:00 am  Daybreak Coffee
Location: Inside the Frontenac Ballroom

8:30 am  Opening Remarks
Stephen Somerville, H2O Power LP, Conference Chair

8:40 am  Opening Keynote
Robert Ethier, Vice President, Market Operations, ISO New England Inc.

9:00 am  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? How should generators, other market participants, regulators and policy makers prepare for technology changes, public policy choices, and customer relationship evolution, among other developments?
Featuring:
Linda Bertoldi, Borden Ladner Gervais LLP: Moderator
Dan Dolan, President, New England Power Generators Association (NEPGA)
Evan Bahry, President, IPPSA
David Butters, President, APPrO

9:30 am  Technology Change: The Implications for Business, Regulation and Public Policy
Impact of IR4 technologies on the energy sector (distributed ledgers, cryptocurrencies, AI, etc.) What's ahead for the power industry, and which forces of change are most likely to shape the agenda? Are DERs, de-carbonization, and re-electrification the most critical trends, or are more subtle changes underway?
Paul Murphy, Advanced Energy Centre, MaRS, Moderator
Neetika Sathe, Vice President, Advanced Planning, Alectra Inc.
Steve Gilchrist, President, Cinergex Solutions Ltd.
Sarah Simmons, Power Advisory LLC
Sarah Griffiths, Enel X

Brief opening comments followed by interactive discussion addressing areas like the following:
• What developments are most likely to disrupt the business in your view?
• What can be done to improve governance and the value proposition for consumers?
• How to value non-emitting capacity in the markets of the future.
• What qualities will characterize the companies who succeed in the years ahead?
• What principles and systems are necessary to properly accommodate the growth of DERs?
• What key issues are emerging from the Market Renewal process and what should suppliers being doing about them?
• How can the system be customer-driven if different groups of customers are saying different things?
• How should regulators design rules for LDC involvement in new markets?
• What are the preferred options for responding to the

www.appro2018.com  All sessions take place in the Frontenac Ballroom unless otherwise noted.
public policy priorities of the current government?
• What changes would institute more accurate signals on the long term value of capacity and alternative revenue streams for capacity-related services?

10:15 am  **NETWORKING COFFEE BREAK**
Hosted by **CES - Customized Energy Solutions**

11:00 am  **PETER GREGG, PRESIDENT AND CEO OF THE IESO**

11:15 am  **REGULATION – KEEPING UP WITH THE PACE OF CHANGE**
Heading into a period of rapid change, critical questions need to be addressed:
- Are the existing regulators properly structured to deal with rapid and possibly fundamental change ahead, and if not, what changes are needed to make sure they are able to instill confidence throughout the industry?
- Does the system require more robust protection against costly political intervention? If so, what mechanisms are viable in the Ontario context?
- Are the road maps tabled by the existing agencies going in the right direction, or is a more fundamental rethink necessary?

Moderator **Steven Kim**, TransAlta
**George Vegh**, McCarthy Tetrault LLP
**Brian Rivard**, Ivey Energy Policy and Management Centre
**AJ Goulding**, London Economics

1:00 pm  **THE OPG REFURBISHMENTS: PROSPECTS FOR THE INDUSTRY AND THE ECONOMY**
**Jeffrey Lyash**, President and CEO, Ontario Power Generation

1:20 pm  **REALISTIC OPTIONS FOR REDUCING ONTARIO ELECTRICITY COSTS IN THE SHORT, MEDIUM AND LONG TERM**
**Keith Sones**, Vice President, National Business Development, Valard Group

1:35 pm  **QUESTIONS AND DISCUSSION**

1:40 pm  **THE NORTH AMERICAN ELECTRIC LDC: WHAT WILL IT LOOK LIKE IN 2025?**
The role and function of North American electricity distributors will change dramatically over the next decade. What is driving those changes? Can the regulators adjust?

Moderator: **David McFadden**, Chair of Toronto Hydro and Vice Chair of the Energy Transformation Network of Ontario
**Anthony Haines**, President and CEO, Toronto Hydro
**Joseph T. Kelliher**, Executive Vice President, NextEra Energy, former Chairman of FERC
**Gordon Kaiser**, CEO of the Alberta Market Surveillance Administrator and former Vice Chair of the Ontario Energy Board

3:00 pm  **NETWORKING COFFEE BREAK**
Hosted by **KPMG**
PARALLEL BREAKOUT SESSION

3:00 pm  **ACTUALIZING NEW BUSINESS CONCEPTS IN THE POWER SECTOR**
Top experts active in leading edge energy business innovation outline the prospects in their respective areas and field questions about where business and technological changes are heading.
Moderator: **Jayesh Shah**, Oshawa Power and Utilities Corporation
**Paritosh Gambhir**, KPMG: Blockchain applications in the power industry
**Derek Lim Soo**, Peak Power: DERs as an answer to urban supply challenges
**Jonathan Frank**, CoPower, Responding to new consumer expectations
Location: Queens Quay rooms next to the Networking Centre
Breakout Sponsor: **KPMG**

3:30 pm  **CARBON POLICY AND GAS-FIRED POWER GENERATION**
The outlook for supply, deliverability and new applications. Federal carbon policy and the impacts on gas-fired power generators.
Moderator: **John Vellone**, Borden Ladner Gervais LLP

Current projections for supply and demand of natural gas for power in Ontario and bordering jurisdictions: **Duncan Rotherham**, ICF International

Federal carbon policy and the impacts on natural gas generators:
**Jennifer Murphy**, Senior Advisor, Climate Policy and Carbon Compliance, Enbridge

PARALLEL BREAKOUT SESSION

3:45 pm  **SPEED MENTORING**
Hosted by WiRE (Women in Renewable Energy) with Assistance from ENGIE - Inaugural Industry Diversity Sponsor
Back by popular demand: A unique opportunity for mentors to share knowledge about the Ontario power sector and for mentees (students & developing professionals) to learn about the energy sector from an experienced professional.

Prospects for increased penetration of natural gas in the supply mix:
**Chris Shorts**, Union Gas

Plenary co-sponsors: **Enbridge Gas Distribution and Union Gas**

Special presentation

4:30 pm  **THE RANGE OF VIABLE MARKET MECHANISMS FOR INCENTING RATIONAL ECONOMIC BEHAVIOUR IN EMISSION REDUCTION**

**Lisa DeMarco**, DeMarco Allan LLP
Moderator: **Shawn McCarthy**, Globe and Mail

5:00 pm  **RECEPTION IN THE POWER NETWORKING CENTRE**
Hosted by **TransCanada**

5:00 pm  **ANNUAL CANADIAN POWER BANQUET DINNER**
Hosted by **Borden Ladner Gervais LLP and Northland Power**
Location: Frontenac Ballroom

All program details are subject to change without notice. See the latest updates in the APPRO 2018 online program.  www.appro2018.com
7:00 pm  **Banquet keynote:**
Hon. **Greg Rickford**, Ontario Minister of Energy, Northern Development and Mines and Minister of Indigenous Affairs

**Women in Renewable Energy (WiRE) Woman of the Year Award: Recognizing and celebrating outstanding women working in Canada’s power sector**

Hosted with assistance from **ENGIE** - Inaugural Industry Diversity Sponsor

**The Hedley Palmer Award**

8:00 pm  **President’s mixer**
Hosted by **Stikeman Elliott LLP**
Location: Power Networking Area outside Frontenac Ballroom

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**TUESDAY, NOVEMBER 13**

8:00 am  **Daybreak coffee**
Location: Pre-function area inside Frontenac Ballroom

8:30 am  **Opening session**
Keynote speaker: **Dawn Farrell**, President and CEO of TransAlta Corporation

9:15 am  **IESO market renewal – A directional update**
How does the proposed MR high level design impact business prospects for market participants? How has the Market Renewal project changed in recent months? What additional opportunities to improve the market are becoming apparent? New options becoming available to improve network optimization and grid visibility considering the proliferation of DERs. How

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the experience of technological, consumer and policy disruption in other sectors can help electricity market participants prepare for change in Ontario.

Moderator: **Glenn Zacher**, Stikeman Elliott LLP
**Barbara Ellard**, Director of Markets & Procurement, IESO
**Jason Chee-Aloy**, Power Advisory LLC
**Joshua Wong**, Opus One Solutions
**Judy Chang**, The Brattle Group

10:15 am  **Networking coffee break**
Hosted by **Morrison Park Advisors**

10:45 am  **Bringing down the cost of electricity – Duelling propositions**
Reducing electricity cost is the number one shared priority. This session will be an opportunity to test competing propositions, to see which are expected to yield the greatest savings. Speakers will build from APPrO’s online discussion hosted on LinkedIn in which members of the industry will share all manner of suggestions on how costs can be better controlled.

For example, should Ontario:

- Change the supply mix?
- Get out of energy planning?
- Provide more optionality in reliability levels?
- Institute cost checks on new policies?
- Creative operational or contracting strategies?
- Try other new ideas? (You fill in the blank!)

**Mike Richmond**, McMillan LLP
**Ben Grunfeld**, Navigant Consulting
**Emily Thorn Corthay**, Chair of the Energy Task Force, Ontario Society of Professional Engineers
**Teresa Sarkesian**, President and CEO of the Electricity Distributors Association
**Ahsan Upal**, Burns & McDonnell Canada
12 noon LUNCH IN THE NETWORKING CENTRE
Hosted by Power Advisory LLC

1:00 pm POWERING THE BOTTOM LINE: DIVERSITY SOLUTIONS FOR CANADA’S ENERGY SECTOR
- The business case for inclusion and diversity
- Progress report on the EHRC Leadership Accord on Gender Diversity
- Bridging the compensation gap
Michelle Branigan, Electricity Human Resources Canada (EHRC)
Joanna Osawe, Women in Renewable Energy (WiRE)
Nicolle Butcher, Vice-President, Strategy and Acquisitions, OPG
Kathy Lerette, Alectra Utilities
Moderator: Reena Goyal, IESO
Hosted by McCarthy Tetrault

2:30 pm NETWORKING COFFEE BREAK

3:00 pm MANAGING CHANGE IN ONTARIO’S NEW POLITICAL LANDSCAPE
- Are our systems for policy-making up to the challenge of a rapidly changing energy industry?
- What can be done to reduce electricity rates?
- Where does energy planning need to go?
- When is it appropriate to subsidize electricity rates?
- What are the most important energy choices that the government will have to face in the coming year?
- What viable principles are on offer for improving governance in the sector?
Moderator: Sean Conway, Gowling WLG and the Centre for Urban Energy at Ryerson University
Opening presentation on results of recent public opinion research: Jason Lockhart, Innovative Research Group Inc.

PARALLEL PROGRAM
Organized by QUEST, Quality Urban Energy Systems of Tomorrow

1:30 pm CURRENT ISSUES IN CHP DEVELOPMENT IN ONTARIO
Update on the CHP market, including growth opportunities, micro-CHP and new technology
- The policy case for CHP in Ontario: Affordability, Efficiency, Resiliency, Sustainability
- Investing in CHP and distributed energy resources
- Profiling customer energy efficiency
Richard Laszlo, QUEST Associate and President, LES
Alex Jerome, Partner at InstarAGF
Ron Cocking, Toromont
Andrew Hejnar, Energy Manager, 3M
To register for this session only, please sign up through Eventbrite at this link.

Mike Richmond, McMillan LLP
Alex Callahan, Ontario NDP
Dan Moulton, Crestview Strategy

4:30 pm CONFERENCE CONCLUSION
Welcome to PowerConnect, APPrO’s event web app.

- Browse attendees
- Connect and set up meetings with other delegates
- View the current program
- Access presentations
- View speakers’ bios
- Check out the Power Networking Centre floorplan
- View our list of sponsors

Login instructions:
Open the email sent from APPrO under the subject “Login credentials for PowerConnect – the APPrO 2018 web app,” which contains your personalized and secure login address.

If you can’t find that email from APPrO, go to https://appro.org/app and select “Forgot login” (at the bottom left).

Enter your email address and look for a new message from APPrO with your personalized and secure login address.

WiFi and PowerConnect app sponsored by