TRANSFORMATION UNDERWAY

APPrO
2014

Preliminary Conference Program

26th Annual Canadian Power Conference & Networking Centre
November 18 & 19

Metro Toronto Convention Centre,
South Building
www.appro2014.com

Hon. Bob Chiarelli
Ontario Minister of Energy

David Hay
Vice Chair, Investment Banking, CIBC World Markets Inc.

Mary Hemmingsen
Partner, National Sector Leader, LNG, Power and Utilities
KPMG LLP

Brian Topp
Kool Topp & Guy
Public Affairs
Hear top experts and industry leaders identify their guideposts for the transition:

- Why the landscape is shifting
- The shape of restructuring ahead
- How generators expect to adapt
- The changes regulators are making
- What grid owners and operators are likely to do
- Financing through transition
- Market evolution during periods of disruption
- What’s happening to the planning system
- Value-added partnerships for generators
- Governance and transition following the merger of the IESO and OPA
- How the politics of electricity will likely evolve

FEATURED SPEAKERS:

Colin Andersen
CEO
Ontario Power Authority

Bruce Campbell
President and CEO
Independent Electricity System Operator

Anthony Haines
Toronto Hydro

Sean Conway
Gowlings

Rosemarie Leclair
Ontario Energy Board

Linda Bertoldi
BLG

AJ Goulding
London Economics International

All program details are subject to change without notice. For the latest updates, please visit www.appro2013.com
1:50 pm  Interactive discussion: What’s at play in the current round of financings and M&As?
A lively interactive session in which leading experts with active projects exchange views on what’s working, and the issues at play.
- How should procurement be structured to achieve results?
- What signals are investors looking for in terms of commitment to supply procurement and other Greenfield development initiatives?
- What are international investors saying about the Ontario market?
- New techniques for financing distributed generation
- How the financing of conventional infrastructure is evolving to recognize the current set of risks
- Financing structures suited to a period of transformation: Captive funds, Third party BOT, leasing, balance sheet.
Discussion leader: Mary Hemmingsen, KPMG LLP
Ching-yen Chen, InstarAGF Asset Management Inc.
Jonathan Duguay Arbesfeld, Casgrain & Company Limited
Kyle Walker, RBC Capital Markets
John D. Vincent, Sun Life Financial

3:00 pm  Coffee Break
Hosted by APPrO 2014 Sponsors

3:30 pm  Planning the province’s electricity future — What the IESO – OPA merger means for Ontario
Keynote: Bruce Campbell, Independent Electricity System Operator
Introduced by: Mark Rodger, Borden Ladner Gervais LLP
Panel of commentators and analysts:
The new powers and responsibilities of Ontario’s energy agencies: Are they appropriate for the times and are changes necessary?
Linda Bertoldi, Borden Ladner Gervais LLP
Peter Wallace, University of Toronto School of Public Policy and Governance
George Vegh, McCarthy Tetrault LLP
Moderator: Valerie Helbronner, Torys LLP

5:00 pm  Reception in the Power Networking Centre
Hosted by APPrO 2014 Sponsors

5:15 pm  “Speed Networking”
This will be an opportunity to accelerate your business networking. In a series of brief 2-minute rounds, you will meet others one-on-one, exchange your backgrounds, business goals, and hone in on any specific challenges or questions you may have. Then, the bell will ring and you’ll move on to the next person. This session will be led by Greg Judelman of The Moment, an expert in large group facilitation.

www.appro2014.com
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

The Hedley Palmer Award

8:30 pm  Power Mixer at the Steam Whistle Brewery  
Hosted by Blakes

WEDNESDAY, NOVEMBER 19

8:00 am  Daybreak Coffee  
Hosted by TransCanada

8:30 am  Energy East: A Project of Historic Proportions  
Keynote speaker: Francois Poirier, President, Energy East Pipeline  
TransCanada's Energy East pipeline will have major implications for the Canadian energy sector from West to East. If approved it will be seen as boosting Canadian energy independence while enabling export markets and playing a role in establishing a long-term vision for the energy sector and the country. The Energy East pipeline will face many challenges associated with siting large infrastructure, including building Aboriginal relationships and public engagement. It will be the impetus to build significant new electrical transmission facilities in Ontario and points east, affect the balance of fuel supplies throughout eastern Canada, and address concerns associated with the long-standing mainline utilization issue.

9:00 am  Market evolution during a period of transition  
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? Panelists are invited to address the refinement of price signals, capacity-related forward markets, and other options for improving on the current electricity market.  
Moderator: Paul Grod, Rodan Energy  
Ted Leonard, IESO: The IESO’s expectations for market evolution  
Mark Schembri, Loblaw’s Inc.: A customer perspective from a large retailer on facility demand management, embedded roof top FIT PV, demand response and embedded generation  
Ken Schisler, EnerNOC Inc.: What a leading energy intelligent software company has learned on potential options for made-in Ontario capacity-related forward markets  
Cliff Hamal, Navigant Economics: Strategic opportunities in a changing market

10:00 am  Coffee break  
Hosted by Veresen Inc.

10:30 am  Adjustment strategies: How key players are addressing current changes underway in the gas market  
- Implications of recent initiatives on gas-electric co-ordination in US markets  
- The impact of Energy East and the complimentary Eastern Mainline expansion project on Ontario gas consumers

SIMULTANEOUS PROGRAMMING

10:45 am  The critical role of public engagement in energy planning  
Public engagement has quickly become one of the top requirements for successful development of power projects. As Ontario’s new system for regional infrastructure planning is rolled out, the importance of fully integrating stakeholders into the processes of planning and development is an issue that reaches to the core of both public and private systems. Experts from the OPA and the industry will share their latest insights on how to make the most out of public engagement.  
Luisa Da Rocha, Manager of Stakeholder Relations, Ontario Power Authority: Ontario’s regional planning process and community engagement - how it works and what to expect  
Peter MacLeod, MASS LBP: What it takes to truly engage your public  
Shawna Peddle, Stantec: Lessons from recent consultation exercises  
Moderator: Chris Benedetti, Sussex Strategy Group

- Reliability initiatives and additional expansion projects of TCPL, Union and Enbridge  
- Updates on key Ontario regulatory processes affecting gas-fired generation.  
Moderator: Ian Mondrow, Gowlings LLP  
Steve Clark, TransCanada PipeLines Ltd.  
Leonard Crook, ICF International: North American market changes – implications for Central Canada  
Jim Redford, Union Gas: Is Ontario’s physical and commercial infrastructure ready for increased reliance on natural gas generation?  
Shahrzad Rahbar, Industrial Gas Users Association (IGUA): Industrial User Perspective  
John Wolnik, GSA Energy Company Inc.: Overview of regulatory proceedings affecting generators  
Peter Fraser, Ontario Energy Board: The OEB’s natural gas market review

12 noon  Lunch in the Networking Centre  
To be hosted by APRO 2014 sponsors – click here for information on how to sponsor this event.

1:00 pm  Is CHP poised for a resurgence in Ontario?  
The prospects for CHP have rarely been better in Ontario: Improving economics, and the widening recognition that CHP can help to meet objectives for urban resiliency, grid reliability and environmental sustainability, have created the potential for a groundswell of new development. Experts identify the key obstacles to building capacity and how they are being addressed.  
Moderator: Barry Chuddy, CEO of Guelph Hydro  
Jim Baxter, City of Toronto: Newly-recognized benefits and how the conditions for CHP development have improved recently  
Neeti Sathe, PowerStream Inc.: The value of CHP opportunities to an LDC

All program details are subject to change without notice. For the latest updates, please visit www.appro2013.com
Simultaneous joint programming in the Power Networking Centre:

The APPrO Technical Conference:

The Debut of New Energy Storage Technology – Impact and Implications for Ontario

In collaboration with Energy Storage Ontario (ESO)

The following is an outline of major topics to be addressed at the APPrO 2014 Technical Conference. It is subject to development and change over the coming months through social media and other communications. Add your suggestions for conference plans and presentations!

Visit the APPrO 2014 social media portal, the Inspiration Lab, or the social media links below for more information and to access some of the many ways to contribute.

TUESDAY, NOVEMBER 18

10:00 am Introduction and objectives of the event
Jake Brooks (APPrO) and Robert Stasko (ESO)
The two day program is focused on deepening the understanding of Energy Storage for APPrO attendees, including both technical and business insights in two primary areas:
• The Ontario power market is evolving with the development of smart grids, increasing penetration of renewables, and improvements in conventional generation & transmission. How can Energy Storage help you compete in the changing market with new market participants?
• Identifying the domestic supply chain capacity that will be necessary to develop and deploy Energy Storage technologies, both locally and internationally.

10:15 am Review of Outcomes from the IESO RFP
“Outcome of the IESO’s Storage RFP and What’s Next?”
Leonard Kula, Director of Operations, IESO

11:00 - 12:30 Breaking down the hidden barriers to energy storage:
Requirements for the evolution of technical and business relationships in the marketplace
An examination of how Ontario’s experience with modernizing its electricity infrastructure is opening opportunities for demand response and energy storage technologies, and how utility-private partnerships can leverage those opportunities to generate economic benefit for the Province.
Moderator: Ian Philp, Director of Partnerships, Advanced Energy Centre
Lisa DeMarco, Head of Toronto Energy Practice, Norton Rose Fulbright
David Teichroeb, Emerging Technology, Enbridge Inc.
George Pessione, OPA, Ontario Power Authority
Gary Thompson, Toronto Hydro
Carlos Silva, EVP, Operations, ENBALA

12:30 – 2:00 Lunch and Networking

2:30 pm How the politics of electricity will evolve
• What are the most important 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 the restructured 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
Brian Topp, Kool Topp & Guy Public Affairs
Will Stewart, Navigator Limited
Rob Silver, Crestview Strategy

4:30 pm “Networking Connector” Closing Reception
Hosted by Stikeman Elliott LLP
2:00 - 3:30 Lessons learned from early Energy Storage deployments: The technology providers experience

Understanding what is success for the technology providers and the sector as a whole. Technology providers will provide insight into what they have learned in the areas of:

- Technical and systems aspects of integration and commissioning
- Technology-specific operating models
- Synergy between Energy Storage technologies and existing generation assets (or other energy services) that may facilitate new business partnerships
- Successful value propositions for deployments of storage technology
- Remaining challenges for technology providers in Ontario

Moderator: Robert Stasko, Energy Storage Ontario
Cam Carver, CEO, Temporal Power
Rob Harvey, Director of Energy Storage, Hydrogenics Corporation
Curtis VanWalleghem, CEO Hydrostor
Jason Rioux, Vice President, NRStor
John Wright, Director of Business Development, Northland Power

3:30 - 4:30 Presentations by Exhibitors

4:10 pm Cara Clairman, Plug N Drive: Electric Vehicles and their Distributed Storage Potential

4:30 pm Joanna Szarek Osawe & Rebecca Black, WiRE (Women in Renewable Energy)

4:50 pm Paul Tessier and Masih (Moose) Moosazadeh, Rope Access Maintenance

Facilitated networking session:

5:15 pm Speed Networking: What connections do you need to make between your business and the energy storage sector?

This structured and fast-paced networking activity will be an opportunity to accelerate your business networking. In a series of brief 2-minute rounds, you will meet others one-on-one, exchange your backgrounds, business goals, and hone in on any specific challenges or questions you may have.

WEDNESDAY, NOVEMBER 19

9:00 - 9:15 Opening remarks and summary of previous day’s events

Robert Stasko, Energy Storage Ontario

9:15 - 9:45 Keynote: “Strategies for Canadian Competitiveness, building a strong Energy Storage Value Chain through collaboration”

Ian Potter, Vice President of the National Research Council of Canada

An overview of NRC’s transformation in which participants can expect to gain insights into how the federal government is now deploying resources to support Canadian industry.

9:45 - 11:00 Ontario on the innovation map: An overview of local capacity for energy storage innovation to capture global opportunities

- An overview of the existing capacity in Ontario to develop and supply storage technology and services to the world.
- What has led to the concentration of companies in the storage value chain located in Ontario?
- What pieces need to be put in place in order to make Ontario even more attractive for investments?
- What’s necessary for Ontario to maintain its position as a global competitor in storage technology?

Moderator: Jen Hiscock, NRCan-Canmet ENERGY
Dan McGillivray, Executive Director, Centre for Urban Energy, Ryerson University
Carole Champion, Director, Industry Engagement, OCE
Jonathan Dogterom, Manager, Cleantech, MaRS
Ken Nakahara, Director, Transmission and Distribution Policy Branch, MOE
Nicolas Muszynski, Senior Development Manager, RES Canada

11:00 – 11:30 Exhibitor Presentations and Participant Networking

11:30 – 1:15 The Energy Storage Technology Roadmap: Where is storage technology headed, what opportunities exist in the Canadian ES value chain?

This panel will focus on the state of the art in Energy Storage technologies.

Moderator: Adam Tuck, Program Leader, Energy Storage for Grid Security and Modernization, National Research Council of Canada
Bala Venkatesh, Academic Director, Centre for Urban Energy, Ryerson University
Isobel Davidson, Principal Research Officer, NRC
Landis Kannberg, Lead Mgr., Energy Storage & Renewable Integration, PNRL
Ben Kaun, Senior Project Manager, Electric Power Research Institute (EPRI)
James J. Greenberger, National Alliance for Advanced Technology Batteries

1:15 - 1:30 Closing remarks

Distillation of observations and findings
Bob Stasko, Energy Storage Ontario and CEO, Science Concepts International

Feel free to join the conversation on social media, and share these links with your colleagues and contacts:

Twitter: https://twitter.com/APPrOntario #APPrO2014
LinkedIn: http://linkd.in/1pXSQfx
YouTube: http://www.youtube.com/channel/UCAwW194Kmge1AcvSuAV2ihg
APPrO’s Power Memory Project Facebook Page: https://www.facebook.com/APPrOPowerMemoryProject
Share your important insights and industry intel #APPrO2014. Propose your suggestions for issues that need to be addressed at APPrO 2014. We're listening! More info at http://conference.apro.org.
APPrO 2014
Yes, Please register me
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REGISTRATION FEES

APPrO members:
Advance - October 2 – November 14 (noon): $1195
Onsite – November 14 – 19: $1295

Non-members:
Advance - October 2 – November 14 (noon): $1695
Onsite – November 14 – 19: $1895

Additional Banquet Dinner tickets (November 18) $375

20% Volume Discount
Four+ people registering from the same organization at the same time receive a 20% discount.

Contact soraya.rivera@appro.org for registration assistance.

Become an APPrO member
Save on your registration! Contact carole.kielly@appro.org for details.

Exhibit space in the Power Networking Centre
$2,795 per booth (see Prospectus at www.appro2014.com)

To book exhibit space contact carole.kielly@appro.org 416-322-6549 ext 226 www.appro2014.com

Power Networking Centre guest day passes for non-exhibitors (includes access to the APPrO Technical Conference);
Advance - before November 14 (noon)
November 18: $75
November 19: $55
Onsite – November 14 – 19:
November 18: $95
November 19: $75

All above fees subject to 13% HST

Sponsorship and affinity promotion services prices available. Contact Carole Kielly at carole.kielly@appro.org for details.

Hotel
Fairmont Royal York
Reserve your room at the Fairmont now while space is still available. The deadline has passed but the Fairmont will honour the APPrO rate based on availability at the time of booking.

Reserve online: http://bit.ly/1mjYsgp
Special APPrO rate: $189.00
Reserve by phone: 1-800-663-7229 or 1-800-441-1414
Please make sure to identify yourself as an APPrO delegate to take advantage of the APPrO rate.
“The APPrO Annual Canadian Power Conference is, in my experience, the premier event of its kind in the power generation industry. Perennially successful, it highlights the great work that APPrO does and continues to do in the sector.”

— John Yakabuski, MPP, Renfrew-Nipissing-Pembroke

Metro Toronto Convention Centre
Toronto, Canada
November 18 & 19, 2014

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!

You will also want to take in the APPrO Technical Conference, held right on the exhibition floor, features “The Debut of New Energy Storage Technology — Impact and Implications for Ontario” (in collaboration with Energy Storage Ontario).

An extension of the main APPrO conference, this two day mini-conference is open to all trade show attendees. The program is designed to foster new business initiatives, and provide a nexus for creative thought and interaction amongst energy professionals with technical and business expertise to advance the development of technical innovation. Together with our partners at ESO, we’ll address the implications of the sector’s latest technological advances such as storage and emerging technology.

Register today at www.appro2014.com or contact carole.kielly@appro.org for more information.

EXHIBITORS ALREADY REGISTERED INCLUDE:

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AMEC Americas Ltd.
Armour Valve Ltd.
Avensys Solutions
Cable Master Inc.
CanACRE
Doherty Engineering Inc.
Electro Rent LLC
Energy Storage Ontario
Enersys Canada Inc.
Gas Drive Global
Hobas Pipe USA
Horizon Energy Solutions Inc.
Independent Electricity System Operator
Ketchum Manufacturing Inc.
National Research Council
Natural Resources Canada/ITD
Nordmin Engineering Ltd.
Northwind Solutions Group
Norton Rose Fulbright
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