

Fourth Annual National Energy Roundtable Conference

Tuesday, June 19th

The Design Exchange, 234 Bay Street, Toronto

- MC **Sandra Pupatello**, President, Canadian International Avenues Ltd; former Chair, Hydro One
- 8:00 am Registration opens. Light breakfast served
- 8:30 am Welcome by **Monica Rovers**, Head of Energy, Toronto Stock Exchange
- 8:40 am **Session I: The modern utility**
20% of Canada's energy needs are powered by electricity and complex work is ongoing with rate-focused regulators to spur innovation and growth. However, organic expansion can be challenging and larger utilities are seeking growth by swallowing up smaller companies outside their home regions. In so doing, utilities can gain a competitive edge through M&A but will have to convince regulators that the transactions will produce meaningful efficiencies and synergies that deliver benefits for ratepayers and investors, while improving transmission and distribution networks. The panel will explore key trends and developments underlying the electric and natural gas utility sectors, including drivers of M&A activity (and insights into what recent deals reveal about the future of the sector), transition and integration planning, helping to meet climate targets, supporting shifts in types of transport and in the development remote regions and cross border energy trade.
- **Brian Bentz**, President & CEO, Alectra Utilities
 - **Cynthia Hansen**, Executive Vice President, Utilities and Power Operations, Enbridge
 - **Dr. Terry Harvill**, President, ITC Grid Development LLP
- Session chair: **Andrew Teliszewsky**, Senior Director, Strategic Growth & Policy, Opus One Solutions
- 9:30 am A conversation with **Ed Krapels**, Founder & Chief Executive Officer, Anbaric Development Partners and **Chris Ireland**, Director, Greenfield Investments and Renewables, Ontario Teachers' Pension Plan. Led by **Ailish Campbell**, Chief Trade Commissioner & Assistant Deputy Minister, Global Affairs Canada
- 10:00 am **Dawn Farrell**, President & CEO, TransAlta
- 10:25 am Networking break
- 10:50 am **Session II: The innovation dividend: Disruption in the power and utilities sectors**
We live in an age of disruption where new technology and behavioral shifts are transforming the way we live. The increasing evolution and integration of high tech solutions is creating rapidly growing markets for new products, including energy storage, advanced buildings/cities and smart grids. Digital technologies are making energy systems more intelligent, triggering new business models and regulatory frameworks. Data collection and exchange are growing exponentially and competition for customers is shifting to the online channel where the Internet of Things promises new product and management options. Panelists will discuss the implications of technical advances and the new business models and policy frameworks needed to contribute to a lasting transformation of the energy sector.
- **Jan Teichmann**, Vice President, Global Markets, Fluence
 - **Maureen Daschuk**, Senior Vice President, Integration, BC Hydro
 - **Tony O'Hara**, Chief Technology Officer and Vice President, Engineering, NB Power
 - **Terry Young**, Vice President, Policy, Engagement & Innovation, Independent Electric System Operator
- Session chair: **Sandra Pupatello**, President, Canadian International Avenues Ltd; former Chair, Hydro One

11:40 am

Session III: Blockchain could change everything for energy

Historically, we've had a pretty one-sided relationship with energy. We use energy from the grid, we pay the bill, and the cycle continues. With the application of Blockchain, the energy we use may soon be much cleaner and more diverse. Consumers of energy services are quickly becoming "prosumers," participating in markets and changing the rules. As the energy transition continues and the era of large-scale power generation winds down, will supply be replaced by electric vehicles acting as mobile power plants for the vertical city or solar gardens serving communities or developing nations? What is the evolution of the regulator, operator or utility in this dynamic new marketplace?

Blockchain, an immutable distributed ledger that verifies and records transactions without a central authority, promises more efficient transactions with lower costs based on its ease of identity verification and automation of contracts. When applied to the energy sector, Blockchain can enable distributed systems where people trade energy among themselves, seamlessly connecting producers with investors who are willing to pay upfront for the right to consume energy. This session will explore the concept of an incentive based energy marketplace in support of the shift to renewables. We'll show how a diverse set of participants from energy, financial services and manufacturing sectors have come together on Blockchain to offer wide ranging benefits for industry and consumers, not to mention the planet. Live presentation of the MVP project and discussion to include:

- **Vikram Singh**, Director of Advanced Planning, Alectra
- **Oscar Roque**, Associate Vice President, Mobile Platforms, Interac
- **Henry Kesisyian**, Vice President, Transformative Technology, Scotiabank
- **Curtis Miles**, Blockchain Technical Director, IBM

Session chair: **Peter Patterson**, Blockchain Market Leader, IBM

12:30 pm

Luncheon and discussion (at 1:10 pm) with **Margaret Kenequanash**, Chief Executive Officer, Wataynikaneyap Power LP and **Gary Smith**, Executive Vice President, Eastern Canadian and Caribbean Operations, Fortis. Interviewed by **Tom Clark**, Chair, Public Affairs & Communications, Global Public Affairs

1:45 pm

Fireside chat with **Jeffrey Lyash**, President & CEO, Ontario Power Generation. Interviewed by **Tom Clark**, Global Public Affairs

2:10 pm

Session IV: The impact of electric vehicles

Electric vehicles are coming to Canadian cities sooner than you think. And their adoption is already having massive implications for our local power and utility companies. Demand patterns are changing; distribution models are shifting; significant commercial opportunities are being created. Are municipal power and utility companies ready for the massive changes that are about to come? Are investors aware of the commercial opportunities that exist? And are policy makers and infrastructure planners making the right choices today to protect our power capabilities in the future? In this session, we will explore the challenges and opportunities that the adoption of EVs will create for Canadian cities.

- **Jane Allen**, Senior Vice President, Strategy & Innovation, Hydro One
- **Tom West**, Senior Manager, Corporate Business Development & Strategy, Ontario Power Generation
- **Jonathan Stone**, Partner, InstarAGF
- **Leslie Woo**, Chief Planning and Development Officer, Metrolinx (tbc)

Session chair: **Anurag Gupta**, Partner and Global Sector Head, Power and Infrastructure, KPMG

3:00 pm

Networking break

3:20 pm

Discussion on Industry-First Nations partnership strategies with **Dale Swampy**, Aboriginal Equity Partners and **Joe Muhall**, Past President, Canadian Union of Skilled Workers. Interviewed by **Jason Langrish**

3:50 pm

Session V: Consumer driven energy systems

The electricity sector lags the progress that other sectors have made in customer engagement and the everyday use of advanced analytics to generate value from data. But change is coming quickly, and it's clear that the sector will look dramatically different in a decade or so. As utilities pursue these opportunities, the effects are already being felt by retail customers, including mobile applications for bill notification, presentment, and payment, as well as for outage management. Applications are also extending into smart homes and connected buildings and the grid is evolving from one designed for unidirectional flows of electricity to the consumer to one that also integrates intermittent generation from the consumer. Gaining an understanding of consumer adoption of new technologies is essential as these and other distributed energy resources introduce increased variability in the supply and demand relationship for energy. The panel will explore how to unlock technological benefits and encourage investment and innovation in areas that will change the way consumers use energy.

- **Matthew Sachs**, Chief Operating Officer, Peak Power
- **Hari Suthan**, Chief Strategic Growth & Policy Officer, Opus One Solutions
- **Haider Khan**, Fellow & Technical Director, Distributed Energy Resources, ICF

Session chair: **Lisa DeMarco**, Senior Partner, DeMarco Allen LLP

4:40 pm

Close by **Jason Langrish**, President, The Energy Roundtable