



Emerging Energy Trends Conference

A one-day forum exploring the future of
energy in Ontario

MAY 29, 2017 | MaRS, TORONTO, ON

MowatENERGY

MOWAT'S ENERGY POLICY RESEARCH HUB

MASTER OF CEREMONIES:

Sean Conway
Ryerson University

Sean Conway is currently a Visiting Professor at Ryerson University in Toronto. He also serves as a Public Policy Advisor for the national law firm Gowling WLG (Canada) LLP. In 2015, he was appointed Chair of the Premier's Expert Panel on The Highly Skilled Workforce which reported to the Ontario Government in 2016. From 1975 to 2003, Sean served as a Liberal MPP for the Ottawa Valley and was Minister of Education in the Government of Premier David Peterson (1985-1990). Upon leaving the legislature, he received the Churchill Society's Award for Excellence in the Cause of Parliamentary Democracy. Sean received his B.A. from Wilfrid Laurier University and his M.A. in history from Queen's University.

Welcome Address: Placing Distributed Energy Resources into the Ontario Energy Context

8:45 AM – 9:00 AM

SPEAKER:

Paul Sommerville
Mowat Centre

Paul brings extensive knowledge, experience and leadership in regulatory, corporate and private law practice to the Mowat Centre's energy research hub after a career in Ontario's energy sector. Paul was Executive Vice-President, Chief Regulatory Officer and General Counsel for Toronto Hydro, and was also a member of the Ontario Energy Board (OEB), where from 2001 he presided over numerous regulatory proceedings involving the electricity and natural gas sectors. In 2012, he was recognized with the 2012 Medal of the Society of Ontario Adjudicators and Regulators (SOAR). Paul has held senior positions in the private sector, including General Motors Canada.

Session 1: Regional Energy Planning

9:00 AM – 10:30 AM

Regional energy planning is becoming a crucial consideration in the regulatory and operating environment. This panel will examine who needs to participate, how system concerns should be reflected in energy planning, and how other forms of local and regional planning – such as land-use and transportation – could be integrated into it.

MODERATOR:

George Vegh
McCarthy Tétrault

George Vegh is the head of McCarthy Tétrault's Toronto energy regulation practice, where he provides advocacy and advisory services to private and public sector clients. George's main focus is on regulatory and wholesale market governance in the energy sector. George also has extensive experience in working with generators and other market participants to address the impacts of federal and provincial climate change regulation. Prior to joining McCarthy Tétrault, George was General Counsel of the Ontario Energy Board. George is a leader in the energy sector, having served as Chair of the Ontario Energy Association and the IESO Market Forum. He currently serves as Vice-Chair of the Board of the Association of Power Producers of Ontario. He also led a number of industry initiatives, including Task Forces on Distribution Rate Regulation, Infrastructure Renewal, Distributed Generation, and Transmission Connection for Renewable Generation. George is an Adjunct Professor of Energy Law at the University of Toronto Law School, the School of Public Policy & Governance, the University of Calgary Law School and at Osgoode Hall Law School, where he is also the Program Director for the Masters Program in Energy and Infrastructure Law.

SPEAKERS:

Fernando Carou
City of Toronto

Fernando Carou leads the Community Energy Planning (CEP) program and is also in charge of assembling the technical, business, and policy framework for the development of new low-carbon District Energy Systems (DES) in the City of Toronto. His focus is on integrating energy and emissions planning into community and economic growth plans, deep greening of existing buildings, and sustainable development to address issues at the source for better outcomes, including climate change mitigation and adaptation (resilience to high impact events, low carbon solutions) and fostering local economic benefit. Fernando is past Chair of the Ontario Society of Professional Engineers (OSPE) Energy Task Force, a founding member of the QUEST Ontario Caucus, a contributor to the CSA Technical Committee C282 on Emergency Electrical Power Supply for Buildings, and a member of the recently created CaGBC renewable energy working group for net-zero buildings. Fernando holds an engineering degree from the University of Toronto, has Sustainability training from the Harvard University Extension School, and is working towards a Diploma in Public Administration in Local Government from Western University.

Richard Laszlo
QUEST

To his own astonishment, Richard has now been working on energy and climate policies and technology for nearly 15 years with a variety of public, private and non-profit organizations and has facilitated and spoken at dozens of workshops and events across Canada. As a Senior Associate with QUEST, Richard chairs the Ontario CHP Consortium, representing over 130 energy leaders from 70 organizations committed to moving combined heat and power (CHP) policies and projects forward. Richard's research and advocacy work with QUEST includes Resilient Pipes and Wires, examining energy distributor actions and government policies in response to extreme weather events and Getting to Implementation in Canada! an initiative aimed at helping communities implement their Community Energy Plans. Richard has been providing customized energy and carbon policy and communications expertise to corporate, utility and government clients under Laszlo Energy Services since 2010. Richard is the proud author of Pollution Probe's Primer on Energy Systems in Canada, and contributed to the development of the Ontario's Renewable Energy Approval under the Green Energy and Green Economy Act.

Scott Stevens
Northland Power

Scott Stevens is a business development professional with 36 years of experience in the power sector. Mr. Stevens is the President and principle of Energy Ventures Consulting providing power project business development services to private and public energy companies in Ontario. He held the position of Executive Director of Business Development for Northland Power from 2000 – 2016, responsible for gas fired generation project development for Northland Power in Ontario and the US Midwest. From 1989 – 1998, Scott was the Director of Business Development with Enbridge Gas and British Gas, responsible for gas fired cogeneration project development in Ontario. Mr. Stevens was the Manager of the Enerdemo Program at Energy Mines and Resources Canada from 1985 -1989. The Enerdemo Program provided seed capital for start-up Conservation and Renewable Energy companies. From 1981-1985 Scott was the Manager of the Remote Power Program at the Ontario Ministry of Energy developing new conservation and renewable energy initiatives for Ontario's off-grid communities. Mr. Stevens holds an MBA from the University of Toronto, an MES from York University and a BA from the University of Western Ontario. He has served on the Boards of both APPRO and the CDEA and is a member of the NATO Association of Canada.

Joe Toneguzzo
IESO

Joe Toneguzzo is Director - Transmission Integration, within the Power System Planning group of the Independent Electricity System Operator. Prior to joining the IESO, he worked in various planning, regulatory and operations areas of the Ontario Power Authority, Hydro One and Ontario Hydro. Overall Joe has over 30 years of experience in the electrical power sector. He is a graduate of the University of Waterloo with a B.Sc. degree in Electrical Engineering and has been a Professional Engineer in the province of Ontario for over 30 years. Over the course of his career, Joe has also been proactive in making contributions to the electric power industry, including publishing many papers on Integrated Resource Planning and Asset Management through the Institute of Electrical and Electronics Engineers, CIGRE (the International Council on Large Electric Systems) and the Canadian Electrical Association.

Sarah Van Der Paelt
Union Gas

Sarah Van Der Paelt is the director of Distribution Business Development and Strategic Accounts for Union Gas Limited, Enbridge's Ontario-based natural gas storage, transmission and distribution company. Sarah has been working for Union Gas for 25 years in a variety of roles including manager of Product Development, Director of Accounting Services, Director of Energy Conservation and Director of Commercial/Industrial Sales and Marketing. She has a Bachelor of Commerce and an MBA from the University of Windsor, and holds the CPA designation.

Session 2: Ratemaking and Distributed Energy Resources

10:45 AM – 12:00

Valuing distributed energy resources (DER) properly is crucial to ensuring the efficient planning and operation of the energy system. Yet there are questions as to how exactly DER should be valued, what considerations need to be included, and how granular the rates should be. This panel will also examine how to ensure that full costs and benefits of any DER installations are taken into account.

MODERATOR:

Robert Warren
WeirFoulds

Robert Warren is senior counsel in the area of regulatory advocacy and has represented clients in many proceedings involving the two major natural gas utilities, the former Ontario Hydro, Hydro One Networks Inc., Ontario Power Generation Inc., and the larger electric distribution utilities. He has advised electricity distribution utilities and municipal governments on the governance issues unique to their circumstances. Robert has made presentations to several conferences, including the Canadian Association of Members of Public Utility Tribunals, and is the author of several papers, on the subjects of the regulation of the energy sector and the governance of local distribution electricity utilities. He has been recognized in the 2016 edition of Benchmark Canada, the Guide to Canada's Leading Litigation Firms and Attorneys. He is also continuously recognized as by Best Lawyers® in Canada and Lexpert as a leading lawyer in his field.

SPEAKERS:

Ira Shavel
Brattle Group

Dr. Ira Shavel is a mathematician and energy economist with extensive experience in utility economics, environmental policy, and electricity market design. He works for a wide range of private sector clients, including electric utilities, merchant generation companies, independent transmission companies, as well as industry research groups and federal agencies. Dr. Shavel works on renewable economics, the integration of renewables into wholesale markets, and the value of distribution-located resources to the grid as a whole. Dr. Shavel has testified before the Ontario Energy Board, the US Federal Energy Regulatory Commission, and US state regulatory agencies.

Indy J. Butany-
DeSouza
Alectra Utilities

Indy currently serves as Vice President, Regulatory Affairs at Alectra Utilities, Canada's largest municipally owned electric utility. She has more than 15 years of operational industry experience in the electricity sector in varied positions including strategy, rates, regulatory affairs, government relations, privacy, compliance, strategic business development, energy-related application projects, asset management, corporate planning and finance.

Indy currently leads the Regulatory Affairs department for Alectra Utilities developing and executing regulatory strategy, including the realization of revenue requirement for the corporation. She also leads the development of evidence for application filings and defense, including providing evidence as an expert witness during proceedings. Indy is a primary strategist behind developing policy positions for emerging issues from the Ontario Energy Board, Ministry of Energy and Independent Electricity System Operator. Indy led the development of a Merger, Amalgamation, Acquisition and Divestiture (MAADS) Application for the Alectra merger, the largest electricity utility consolidation transaction in Ontario's history. Ms. Butany-DeSouza previously served as Vice President, Regulatory Affairs and Privacy Officer at Horizon Utilities until the formation of Alectra Utilities.

Geoff Osborne
NRStor

Geoff has performed several key functions at NRStor since joining the company shortly after it was founded in 2012 and is currently Manager - Business Development. He is primarily focused on identifying development opportunities, overseeing project management and construction, strategic planning, evaluating new technologies and business models, and coordinating technical proposals. Geoff has also worked with public and private sector stakeholders to help advance regulatory policy and enable the increased adoption of energy storage across Canada. Geoff holds an LLM (energy and infrastructure specialization) from Osgoode Hall Law School and a BScH from Queen's University.

Kaleb Ruch
Toronto Hydro

Kaleb is currently Lead, Government and Regulatory Policy at Toronto Hydro where he is responsible for energy and utility policy matters at Queen's Park and the OEB. Kaleb joined the company in 2013 as Senior Regulatory Policy Advisor, when his responsibilities included testifying on ratemaking policy at the OEB during Toronto Hydro's successful distribution rate application. Prior to that, Kaleb served in increasingly senior policy capacities at the Government of Ontario, including Cabinet Office, the Ministry of Finance (Secretariat to the Drummond Commission) and the Ministry of Energy. Kaleb holds a Bachelor of Applied Science (Mechanical Engineering) from the University of Waterloo and a Master of Public Policy from the University of Toronto's School of Public Policy and Governance."

Session 3: Utility Business Models

1:00 PM – 2:15 PM

The durability of the current business model governing energy utilities in an evolving distributed future is at issue. This panel will examine the role of the franchised utility in the future, and the implications of new business models for utilities, ratepayers and potential competitors.

MODERATOR:

Jay Shepherd
Shepherd Rubenstein

Jay Shepherd is a partner in Shepherd Rubenstein, a Toronto firm of regulatory lawyers. His clients include the School Energy Coalition, the Ontario Geothermal Association, and the HVAC Coalition. He has for many years been a speaker and writer on energy policy and legal issues. Over the last three years that has included a sometimes controversial blog on current issues in energy. Jay graduated from Osgoode Hall Law School in 1978 standing first in his class, and garnering a long list of scholarships and awards. He went on to publish his first book, *The Law of Fiduciaries*, which has been cited by courts at all levels, including the Supreme Court of Canada, and to obtain a Master of Laws from University of Toronto. In practice, he was a tax lawyer for the first decade, heading the tax department of a large Toronto law firm, and teaching tax at Osgoode for eleven years. He first appeared at the Ontario Energy Board in 1985. Finally, in 2002, he started shifting to an energy-only focus, and since then has spent most of his time representing clients in energy matters. At last count, he has appeared as counsel for customers or other stakeholders in more than 500 cases

SPEAKERS:

Ken Costello
*National Regulatory
Research Institute*

Ken Costello is Principal Researcher, Energy and Environment, at the National Regulatory Research Institute (NRRRI). NRRRI serves the state public utility commissions throughout the US. Accordingly, Ken's work focuses on how commissions through their policies and practices can best advance the public interest. He has conducted extensive research and written on a wide variety of topics related to the energy industries and public utility regulation. His research has appeared in books, technical reports and monographs, and scholarly and trade publications, including *Cato Journal*, *The Electricity Journal*, *Energy Journal*, *Energy Law Journal*, *Public Utilities Fortnightly*, *Regulation*, *Resources and Energy*, *Utilities Policy* and *Yale Journal on Regulation*. Ken has provided training and consulting services to the countries of Argentina, Bolivia, Canada, the Central and Eastern European countries, China, Costa Rica, Egypt, Ghana, India, Jamaica, Japan, the Newly Independent States, and Russia. He received B.S. and M.A. degrees from Marquette University and has done doctoral work in economics at the University of Chicago.

Steve McGill
Enbridge Gas

Steve McGill is a senior manager with Enbridge Gas Distribution Inc. with over 30 years of experience in a wide range of positions within the Company. For much of his career his primary focus has been on the development and implementation of business strategies related to the customer related business functions. Mr. McGill has acted in a leadership role in marketing, sales, customer care operations, the implementation of information systems and most recently the exploration of new lines of business for the Company.

Gord Reynolds
Spark Solar

Gord Reynolds is Chief Operating Officer and Vice President, Corporate Development of Spark Solar. Gord is an industry veteran with over 20 years of hands-on leadership experience in a variety of senior roles with leading North American energy and utility services organizations on the demand, supply and delivery side of the business. With extensive experience in business development, field and back office operations, business transformation, merger and acquisitions as well as building high performance operating organizations, Gord has an appreciation of the issues facing the industry and has gained critical insights into developing leading organizational performance. Gord brings practical leadership in the areas of operations, business strategy, operating models, and processes and technology, and is a key member of the team ensuring Spark Power is ready to respond to complex and unpredictable challenges and become more agile and competitive. Before joining Spark Power, Gord was the Managing Director for an industry leading global consultancy where he oversaw the implementation and operation of all business initiatives within the Canadian utility sector. Focused on the transformation of the power industry, Gord has successfully led the planning and delivery of a number of high-profile programs globally with the world's leading energy companies.

Gregory Van Dusen
Hydro Ottawa

Greg Van Dusen has spent over 35 years in the electric utility industry in Ontario and has also had exposure to the both the US and European utility industry and regulatory environment. Greg worked for Ontario Hydro for 20 years in the areas of fuel procurement, design and development, financial planning and reporting and regulatory affairs prior to joining Hydro One in 2000. At Hydro One Greg held positions in asset management, finance and regulatory areas until 2010. In 2010 Greg established his own consulting firm, the Greg Van Dusen Utility Consulting Inc., providing a range of services to local distribution companies in Ontario, including preparation of regulatory rate applications and specialized training. Greg served on the Board of Directors of Hydro One Brampton and was the Chair of the Finance, Regulatory and Policy Committee for the period he was on the Board. In July 2015 Greg joined Hydro Ottawa as the Director of Regulatory Affairs managing the monitoring of compliance with the regulatory requirements, ensuring the successful completion of all regulatory reporting obligations and the preparation and filing of rate applications. Greg has an MBA from York University and has an Honours BA from York University in mathematics.

Session 4: Policy and Regulatory Evolution

2:30 PM – 4:00 PM

The future of energy will require an evolution in energy policy and regulation. Transparency and consumer rights may become larger issues, as well as how to respond to changes in technology and utility business models. This panel will consider how policy and regulation could co-exist and work together to ensure that all stakeholders can benefit from the evolution of the sector.

MODERATOR:

Cynthia Chaplin

Cynthia Chaplin has 30 years of experience as an energy economist and regulator in Canada and Great Britain. She is currently a Director on the Board of Ontario's Independent Electricity System Operator. Cynthia also consults on economic regulation, regulatory policy, adjudicative processes and corporate governance to utilities, regulators, governments, and stakeholders. Cynthia previously served as board member, Vice Chair and Chair/CEO (interim) of the Ontario Energy Board, where she presided on more than 100 public hearings and policy consultations. Her involvement in regulation extended across Canada through her leadership of CAMPUT, Canada's Association of Energy and Utility Regulators. Cynthia has also held senior positions with British Petroleum, Amoco, and Britain's natural gas regulator (Ofgas). She holds an MA in economics from the University of Toronto and the ICD.D designation from the Institute of Corporate Directors.

SPEAKERS:

David Collie
*Electrical Safety
Authority*

David Collie is the President and CEO of the Electrical Safety Authority of Ontario. David brings to the role a wealth of experience across the broader energy sector, including leading organizations in the electricity, natural gas and water distribution fields. David is the Chair of the Board of directors of Plug 'n Drive Ontario – a partnership of companies and agencies dedicated to ensuring Ontario is ready for the new generation of low-emission plug-in vehicles. He is also a founding member of the Ontario Smart Grid Forum, Board member of Smart Grid Canada, member of the Energy Council of Canada, former Chair of the Electricity Distributors Association (EDA), past member of the Stakeholder Advisory Committee of the Independent Electricity System Operator, and Ontario's Smart Meter Implementation Oversight Committee. Active in his community, he is a current Board Member of Hamilton Health Sciences, serving on the Audit and Finance and the Compliance Committees. He is also a past Chair of the Board of the Hamilton-Burlington United Way, Board Member of Joseph Brant Hospital Foundation and the Burlington Economic Development Corporation. David holds MBA, FCPA, FCMA and Chartered Director designations and is a faculty member at the Directors College of Canada. He is also a guest lecturer at the Strategic Management of Regulatory and Enforcement Agencies program at the Harvard Kennedy School of Government.

Julie Girvan
*Consumers Council
of Canada*

Julie Girvan is an independent consultant specializing in natural gas and electricity regulation and regulatory policy. She is currently advising the Consumers Council of Canada in its role representing the interests of residential consumers in both electricity and natural gas matters in Ontario. She has been involved extensively with the restructuring initiatives in Ontario's natural gas and electricity sectors. Ms Girvan was a member of the electricity industry's Market Design Committee and was the residential representative on the IESO's Technical Panel for two terms. She is currently a member of the IESO's Stakeholder Advisory Committee. She spends a large part of her time managing interventions in proceedings before the Ontario Energy Board. She has a BA from McMaster University and an MA in Public Administration from Carleton University.

Sarah Petrean
Clean Energy Canada

As an accomplished public commentator and advocate, Sarah Petrean works to advance policies in support of clean energy and tackling climate change. With more than a decade of experience, Sarah has testified before legislative bodies, lobbied for policy change, and authored numerous studies and articles. Sarah serves as a representative of Blue Green Canada, the Clean Economy Alliance, and regularly collaborates with industry leaders to advocate for policies and programs to leverage Canada's clean energy opportunity. Before joining Clean Energy Canada, Sarah held several senior positions within the Government of Ontario, and worked for a leading non-profit. She holds a degree in Political Science with a specialization in public policy.

Teresa Sarkesian
*Electricity Distributors
Association*

Teresa Sarkesian is President and CEO of the Electricity Distributors Association. She has extensive knowledge of the complexities and issues facing the electricity system and has successfully cultivated effective relationships with different levels of government, strategic partners and stakeholder agencies during her career. With over 25 years of experience in policy development and advocacy both in government and the private sector, she joined the EDA in 2009 as Vice President of Government and Member Affairs and led the Policy and Government Affairs Team for five years before assuming her new leadership role. Among her many successes for the industry, she spearheaded an industry response to sector review; obtained legislative change for greater scope expansion for local electric utility business; and enabled greater flexibility in design and delivery of conservation initiatives by local utilities. She holds a Masters degree in Public Administration from Queen's University and a Master of Arts and Bachelor of Arts, both from the University of Toronto.

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MOWAT'S ENERGY POLICY RESEARCH HUB

The Mowat Energy research hub provides independent, evidence-based research and analysis on systemic energy policy issues facing Ontario and Canada. With its strong relationship with the energy sector, Mowat Energy has provided thought leadership to stakeholders, decision-makers and the public to help advance discussions on the challenges that energy is facing in Ontario. Mowat Energy is generously funded by Enbridge Gas, the Independent Electricity System Operator, Toronto Hydro, and Union Gas.

Learn more at mowatcentre.ca/research/mowat-energy.

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