

Future Innovation in Energy Planning

A Special Session to Advise on Ontario's Long-term Energy Future

Workshop 1 8:45-10:15	<i>Community Energy Planning: Best Practices for Integrating Land Use, Transportation and Energy Planning</i>	
Moderator	Sean Conway	Distinguished Research Fellow, Ryerson University's Centre for Urban Energy
Speaker	Morten Hofmeister	Morten Hofmeister has worked with district heating in Denmark and other countries since 1998 with emphasis on a planning perspective. Morten previously managed heat sales contracts at DONG Energy before becoming director of the District Energy Development Center, which has now merged into Grøn Energi, an association closely related to the Danish District Heating Association. Grøn Energi is co-financed by the Danish District Heating Association and other companies.
Ontario responses	Ron Puschchak	Dr. Ronald Pushchak is a professor in the School of Occupational and Public Health with a joint appointment in the School of Urban and Regional Planning at Ryerson University. In addition to his academic and research activities, he has been involved in a number of professional environmental planning projects including the Ontario efforts to develop legislation to protect municipal drinking water sources, the disposal of nuclear fuel waste, and the government's efforts to locate municipal waste landfills in the GTA.
	Fernando Carou	Fernando Carou is Senior Engineer for Community Energy Planning and District Energy Systems for the City of Toronto. He leads the Community Energy Planning (CEP) program and is also in charge of assembling the technical, corporate, and policy framework for new district energy systems. Fernando focuses on integrating energy planning into community growth plans.
Workshop 2 10:30-12:15	<i>Conservation First: Future Opportunities and Challenges for Conservation</i>	
Moderator	Ian Rowlands	Professor and Associate Director (Global Initiatives) of Waterloo Institute for Sustainable Energy, University of Waterloo.
Speaker	Karen Ehrhardt-Martinez	Karen serves as Principal for Human Dimensions Research Associates, an organization which researches innovative energy initiatives. She is also associated with the University of Colorado Renewable and Sustainable Energy Institute. Her research projects include work on the social dimensions of energy consumption, energy efficiency, and climate change.
	Matthew Theall	Matthew Theall is a Presidential Innovation Fellow working on MyData Initiatives (Green Button) at the US Department of Energy. Before joining the DOE, Matthew was a Technology Strategist at Intel Corporation, where he focused on networking and Smart Grid technologies. He was also previously a member of the Board of Directors of the Smart



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		Grid Interoperability Panel and was president of several industry trade groups focused on home networking and smart grids.
Ontario responses	Niraj Bhargava	Niraj Bhargava is co-founder and CEO of Energate Inc., a company specializing in home energy management solutions.
	Mark Schembri	Mark Schembri is Vice President, Supermarket Systems and Store Maintenance for Loblaw Companies.
Workshop 3 13:14-14:45	<i>Emerging Generation Technologies: A 20-Year Prognosis</i>	
Moderator	Jatin Nathwani	Jatin Nathwani is the Ontario Research Chair in Public Policy for Sustainable Energy at the University of Waterloo. He is also Executive Director of the Waterloo Institute for Sustainable Energy.
Speaker	Roger Gale	Roger Gale is the CEO of GF Energy, which specializes in managing emerging, innovative issues in the electricity and gas industries. He has been a leader in promoting competition in the electricity industry and working with entrepreneurial companies committed to innovative technologies, price-driven solutions and regional synergies. He has provided consulting services to a number of major Western US energy companies. Previously, he held senior positions at the US Department of Energy, the Environmental Protection Agency, and the Federal Energy Regulatory Commission. Roger sits on the boards of Adams Express and Petroleum and Energy Resources.
Ontario responses	Alexander McIsaac	Alexander McIsaac works at NRStor, a start-up company led by Annette Verschuren, whose primary mandate is to accelerate the commercialization of energy storage technologies through project development and ownership. Previously, Alexander worked in the venture capital industry investing in growth companies and assessing business plans. He holds a Bachelor of Science Honours from Queen's University and an MBA from the Richard Ivey School of Business.
	Mel Ydreos	Mel Ydreos is the Executive Director of EnergyVantage. Mel is also the Vice-Chairman, Coordination Committee, of the International Gas Union.
Workshop 4 15:00-16:30	<i>Introducing Network Flexibility: Smart Grids and Demand Reduction</i>	
Moderator	Paul Murphy	Paul Murphy is Chair of the Ontario Smart Grid Forum and former CEO of the Independent Electricity System Operator of Ontario.
Speaker	Andrew Ford	Andrew Ford is a professor in the School of the Environment at Washington State University. Andy's



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		research has concentrated on planning and environmental problems in the energy industry, especially the impact of incentives to increase renewable generation and to reduce carbon dioxide emissions. His work on the "California electricity crises" explained the boom and bust in power plant construction that followed the deregulation of the power system. His most recent research uses modeling to better understand the value of energy storage to enable power systems to make a swift transition to greater renewable generation.
Ontario responses	Bruce Orloff	Bruce Orloff is the Canadian Smart Grid Solution Leader in IBM's Energy and Utilities practice with over 25 years of experience in the utilities and telecommunications industries. He has extensive knowledge and experience managing, developing and implementing advanced solutions in competitive de-regulated electricity and telecommunications markets in North America, Sweden and Australia. Some of his main achievements include implementation of leading edge advanced metering and smart grid solutions in Ontario and overall project management and technical leadership on the deployment of a multi-million dollar optical fiber network across North America. Bruce is also one of the founding members and past board member of SmartGrid Canada.
	Ron Dizey	Ron Dizey is President and CEO of ENBALA Power Networks. ENBALA is a smart grid technology company that continuously connects large electricity users to deliver grid operational flexibility to electricity system operators and utilities. ENBALA's GOFlex platform captures and then aggregates inherent demand-side storage from connected loads, to respond to the real-time needs of the power system in order to increase reliability, efficiency and reduce greenhouse gases.
Summary 16.45-17.45	Summary Discussion: A Roundup of New Ideas	
Moderator	Jose Etcheverry	Associate Professor and Co-Chair, Sustainable Energy Initiative (SEI), York University
Speakers	Morten Hofmeister Karen Ehrhardt-Martinez Roger Gale Andrew Ford	



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About the Mowat Centre

The Mowat Centre is an independent public policy research centre located at the School of Public Policy and Governance at the University of Toronto. The Mowat Centre is Ontario's non-partisan, evidence-based voice on public policy. It undertakes collaborative applied policy research, proposes innovative research-driven recommendations, and engages in public dialogue on Canada's most important national issues.

About MowatEnergy

The *MowatEnergy* research hub at the Mowat Centre conducts evidence-based policy research concerning the structural and systemic issues impacting the energy sector in Ontario and Canada. At the end of June 2013, *MowatEnergy* released a report on energy planning in Ontario, *Getting the Green Light: The Path to Public Support for Ontario's Power Plans*.

MowatEnergy would like to thank the members of conference steering committee for their assistance: Sean Conway, Ryerson University; Jose Etcheverry, York University; Dan McGillivray, Ryerson University; Julia McNally, Ontario Power Authority; Ken Nakahara, Ministry of Energy; Jatin Nathwani, University of Waterloo; Jordan Penic, IESO; Bala Venkatesh, Ryerson University; and Annette Verschuren, Clean Energy Task Force.



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