

CONFERENCE ORGANIZERS

Council for Clean & Reliable Electricity

www.thinkingpower.ca



The Council is a federally incorporated non-profit organization that was formed to provide a platform for open public dialogue and a solutions-oriented approach to the challenges of the energy sector. Representatives from universities, public and private sector business leaders, and strategic planning professionals have collaborated to broaden the public debate on energy issues. The Council has organized conferences on distributed generation, biomass, coal and nuclear, as well as on public sector governance in the electricity sector. The organization regularly publishes the *CCRE Commentary* that presents reasoned opinions and points of view about significant and timely issues relevant to the electricity sector.

Council for Clean & Reliable Electricity Members

Glen Wright, Chair	Guy Holburn	Ian Mondrow	Laura Rees
Linda Angove	Les Horswill	Roy Mould	Ron Stewart
Jan Carr	Allan Kupcis	Jatin Nathwani	Karen Taylor
Sean Conway	David McFadden	Paul Newall	George Todd
Murray Elston	Ross McKittrick	Karen Prentice	Robert Warren

Centre for Urban Energy, Ryerson University

www.ryerson.ca/cue/



The Centre for Urban Energy (CUE) at Ryerson University is an academic-industry partnership that is exploring and developing solutions to urban energy challenges such as the advancement of smart grid technologies, energy policy and regulatory issues, storage, electric vehicles, net-zero homes and renewables.

CUE brings together industries, government and top researchers from around the world to undertake collaborative, multi-disciplinary research on the issues of urban energy. Combining the perspectives of engineering, science, environment, business, social science, public policy, law and infrastructure management, CUE's researchers tackle the issues facing large cities today.

The Faculty of Engineering and Architectural Science is thrilled to house this groundbreaking research centre, and to support CUE's objective of developing innovative, next-generation solutions to keep cities powered now and for many years to come.

COUNCIL PARTNERS

Ivey Energy Policy and Management Centre, University of Western Ontario

www.ivey.ca/energy



The Ivey Energy Policy and Management Centre is the centre of expertise at the Ivey Business School focused on national energy business issues and public policies. It conducts and disseminates first class research on energy policy; and promotes informed debate on public policy in the sector through supporting conferences and workshops that bring together industry, government, academia and other stake-holders in a neutral forum. The Centre draws on leading edge research by Ivey faculty as well as by faculty within Western University.

The Waterloo Institute for Sustainable Energy

http://wise.uwaterloo.ca



The Waterloo Institute for Sustainable Energy (WISE) was established at the University of Waterloo in 2008. The Institute comprises more than 95 plus faculty members with graduate students and postdoctoral fellows working as multi-disciplinary research teams across Engineering, Science and Environment. The Institute provides a focal point for energy research at Waterloo and creates the best possible research platforms for faculty to test their ideas, engage with their peers, and partner with external organizations to accelerate the pace of research, development and deployment of practical solutions.

Research initiatives developed at WISE are of an interdisciplinary nature – spanning theory and experiment – encompassing a broad range of expertise across several faculties and departments. In a short period of five years, WISE has grown to become Canada's largest concentration of researchers in academia devoted to sustainable energy. The Institute has created positive relationships with senior energy leaders from all sectors and has generated significant opportunities for its members to advance energy research. WISE continues to intensify communication and outreach programs to share the knowledge created and to cultivate energy literacy. WISE – and the University of Waterloo – are becoming internationally recognized as leaders in addressing the global energy challenge.



Wednesday October 15, 2014

Hilton Suites &
Conference Centre
Markham, Ontario

CONFERENCE PROGRAM

8:15 am Conference Registration & Continental Breakfast
Networking
Markham Ballroom Lobby

9:00 am Welcome
Glen Wright, Chair,
Council for Clean & Reliable Electricity

Policy Context and Issues
Robert B. Warren, Partner, Weir Foulds LLP

9:30 am Panel One: What Changes Will Determine the Future
for Electricity LDCs and How Soon Will the Changes
be Upon Us?

Dr. Bala Venkatesh, Academic Director,
Ryerson Centre for Urban Energy
Dr. Dan McGillivray, Executive Director,
Ryerson Centre for Urban Energy

10:30 am Break

10:45 am Panel Two: How Can LDCs Adapt to a Brave
New World

Paul Sommerville, Executive Vice-President, Chief
Regulatory Officer and General Counsel,
Toronto Hydro-Electric System Limited
Norm Fraser, Chief Operating Officer,
Distribution and Customer Service,
Hydro Ottawa Limited

Dennis Nolan, Executive Vice-President
Corporate Services and Secretary,
PowerStream Inc.

12:00 pm Lunch

12:45 pm Panel Three: Are New Business, Regulatory and
Legislative Models Needed for the
Electricity Sector?

Dr. Bryne Purchase, Adjunct Professor,
School of Policy Studies, Queen's University
Sean Conway, Visiting Fellow,
Ryerson Centre for Urban Energy
Karen J. Taylor, Director, Advisory Services,
Transactions and Restructuring, Global
Infrastructure, KPMG LLP
Robert Nicholson, Managing Director,
Power and Utilities Group, RBC Capital Markets

2:00 pm Question & Answer Period

2:30 pm Closing Remarks

In partnership with:



WeirFoulds^{LLP}



Sean Conway

Sean Conway is a public policy adviser in Gowlings' Toronto office, working with clients in the energy and natural resources sector. With his extensive experience in the public sector, Sean is available to advise Gowlings' clients on a broad range of business and public policy issues.

Before joining Gowlings, Sean served in the Legislative Assembly of Ontario for 28 years, from 1975 to 2003. He served in the cabinet of Premier David Peterson (1985-90), holding the positions of Minister of Education, Minister of Colleges and Universities, Minister of Mines and Government House Leader. He is a former energy critic for the Official Opposition and served on two Ontario Select Committees on Nuclear Affairs as well as serving on several legislative committees examining health care and constitutional reform.

Sean acted as vice-principal (advancement) of Queen's University from January 1 to December 31, 2009. He was also the Special Adviser for External Relations to the Principal of Queen's University from August 2006 until October 2010. Prior to becoming Special Adviser, he was the Director of Queen's Institute of Intergovernmental Relations. In addition to his work at Gowlings, Sean is a Visiting Fellow at the Ryerson University Center for Urban Energy and a regular panelist on radio and television. He also served as the Chair of the Board of Directors of the Ontario Centres of Excellence (OCE).

Norm Fraser

As Chief Operating Officer, Norm Fraser is responsible for all of Hydro Ottawa's distribution and customer operations including distribution planning, system operations, distribution design and construction, field operations, billing, metering and customer communications. In this role, Mr. Fraser oversees the company's focus on customer satisfaction, system reliability, financial results, safety and productivity.

Mr. Fraser has more than 35 years of experience in the electricity industry in the areas of power system planning, design and operations. Before joining Hydro Ottawa in 2000, he held senior positions at Hydro One and its predecessor, Ontario Hydro.

Mr. Fraser holds an Honours bachelor's degree in Electrical Engineering from the University of Manitoba and is a member of the Professional Engineers of Ontario.

Dan McGillivray

Dr. Dan McGillivray brings more than 30 years of experience to Ryerson's Centre for Urban Energy having worked as managing director of two centres at the Ontario Centres of Excellence - the Centre for Energy and the Centre for Earth and Environmental Technologies. Dan has held several executive positions including: managing director, academic relations, technology transfer partnerships and corporate development, director of business development and technology transfer. He has also worked as an environmental consultant, university professor, physical oceanographer and president and CEO of Environmental Software Consultants Inc.

Dan received his PhD in 1988 from the University of Toronto, specializing in earth and environmental sciences. He joined the Centre for Urban Energy at Ryerson University in August 2011 as the Toronto Hydro Distinguished Fellow and on August 1st, 2012, he was appointed Executive Director of the Centre.

Dan is a member of Ryerson's Digital Media Zone (DMZ) Steering Committee and Zone Leaders Committee, the George Brown College Innovation Advisory Board and has served as a Director on the Boards of the Ontario Centre for Environmental Technology Advancement (now called the Bloom Centre for Sustainability) and the Ontario Environment Industry Association. He was also an active member of the Ontario Smart Grid Forum until the Spring of 2011. In May of 2012, Dan received his Masters Certificate in Energy Sector Leadership from the Schulich School of Business, York University. He was appointed Co-Chair of the Norman Esch Engineering Innovation and Entrepreneurship Awards Committee in September 2013.

At the Centre for Urban Energy, Dan is focusing on energy innovation, entrepreneurship and education. He is managing the iCUE, an innovation incubator/accelerator for new energy businesses. He is teaching a course on Energy Innovation and Entrepreneurship as part of CUE's Certificate in Energy Management and Innovation. As CUE's Executive Director, Dan is responsible for: business development, communications, strategic planning, international partnerships and the commercialization of CUE research.

Robert Nicholson

Robert Nicholson is a Managing Director in the Power and Utilities Group at RBC Capital Markets. He is responsible for coverage of a number of utilities, IPPs, alternative energy companies, power trusts and infrastructure investors. Rob's duties include M&A advisory, strategic and capital structure advice as well as both equity and debt raising. He has been intimately involved with the deregulation of the utility industry in the U.S. having advised governments, independent power producers and corporate entities.

Rob spent 10 years in project finance and mergers and acquisitions focused on the energy sector in San Francisco and New York with a U.S. investment bank before joining RBC in Toronto. He is a past member of the Technical Panel for the Independent System Operator in Ontario. He is a regular speaker at various industry conferences and training courses and has over 20 years of industry experience.

Prior to joining the investment banking industry, Rob was a professional engineer advising clients on environmental clean-ups and mitigation strategies. He holds a B.A.Sc from the University of Waterloo and an M.B.A. from the University of California, Berkeley.

Dennis Nolan

Dennis Nolan has been the Executive Vice-President Corporate Services and Secretary of PowerStream Holdings Inc. since PowerStream's formation in 2004. He is a member of the Executive Management Team at PowerStream and is responsible for the company's Legal, Human Resources & Organizational Effectiveness, Health, Safety & Environment, Supply Chain Services, Information Technology, Corporate Communications and Internal Audit Departments and acts as the Corporation's Secretary.

Dennis is a member of the Southlake Regional Healthcare Foundation's Governance Committee.

Dennis was called to the Ontario Bar in 1982. Prior to June 2004, he was a member of the Executive Management Team at Hydro Vaughan Distribution Inc.

Dennis has over 30 years of experience as in-house counsel, and in senior management roles in the manufacturing, waste management and the electricity sector.

Dr. Bryne Purchase

Bryne is an Adjunct Professor at the School of Policy Studies, Queen's University and a Fellow (and founding Director) of the Queen's University Institute for Energy and Environmental Policy. He teaches graduate courses in Energy Policy and Canadian Economic Policy. Bryne is a bi-weekly contributor to QP Briefing, a Torstar on-line publication covering Ontario politics and economics. He also contributes occasional op. ed. pieces to the Globe and Mail national newspaper.

Bryne is a former Chief Economist of Ontario and a former Deputy Minister of the Ontario Ministries of Finance, Revenue and Energy, Science and Technology. He has a PhD in Economics from the University of Toronto and is the author of a number of publications relating to economics, governance and competitiveness. His latest book is, *Navigating on the Titanic: Economic Growth, Energy and the Failure of Governance*, McGill-Queen's University Press (2013).

Paul B. Sommerville

Paul B. Sommerville is Executive Vice-President, Chief Regulatory Officer and General Counsel. He has extensive knowledge and experience in regulatory, corporate and private law practice.

Mr. Sommerville was a Member of the Ontario Energy Board (OEB), where since 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).

Mr. Sommerville has held senior positions in the private sector, including General Motors of Canada Limited. He received a Bachelor of Arts from Glendon College from York University and a Bachelor of Laws from the University of Western Ontario Law School.

Karen J. Taylor

Karen Taylor is an experienced business leader with capital markets, regulatory policy and infrastructure investing experience. She has 16 years of capital markets experience, most of which was spent as a highly ranked analyst covering the pipeline and energy utility space with both TD Securities and BMO Capital Markets. She also has 6 years of regulatory experience, both as an adjudicative member of the OEB and as Board staff. Karen is best known for her objectivity, analytical ability, and depth of industry knowledge.

Karen is currently a Director in KPMG's Transactions & Restructuring team, Global Infrastructure Advisory and is presently completing the Institute of Corporate Directors Director Education Program at the University of Toronto. Karen is a Chartered Financial Analyst, has an MBA from the University of Western Ontario, and has a Bachelor of Commerce Degree, with a major in Finance from the University of Alberta.

Bala Venkatesh

Dr. Bala Venkatesh is both founding Academic Director and head of the Centre for Urban Energy (CUE) at Ryerson University. He is also a tenured full Professor in the Department of Electrical and Computer Engineering.

With a PhD from Anna University (India), he is a registered professional engineer in Ontario. He has also taught at the University of New Brunswick, Multimedia University (Malaysia) and Anna University (India) since 1994.

He has published more than 100 papers in journals and conferences and has supervised more than 40 MSc and PhD theses. He leads several active grants and his current extramural funding is over \$10 million. In the last two decades, he has worked on over 10 consulting projects in India and Canada. He has received numerous research and teaching awards including the Sarwan Sahota Research Award in 2014.

Robert Warren

Robert Warren, a partner of WeirFoulds LLP, holds degrees from the University of Montreal, the University of Oxford, which he attended on a Rhodes Scholarship, and the University of Toronto.

He is senior counsel in the area of regulatory advocacy, most recently with a focus on the regulation of the energy sector. He has appeared as counsel in many proceedings before the Ontario Energy Board. He has been counsel in 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.

Mr. Warren's practice includes advising clients on governance issues in the energy sector.

Mr. Warren has written papers on various

aspects of the regulation of the energy sector, and has made presentations to several annual conferences of the Canadian Association of Members of Public Utility Tribunals.

Mr. Warren is recognized as a leading practitioner in electricity, oil and gas in the Canadian Legal Expert Directory, and was named 2013 Lawyer of the Year in energy regulatory law by Best Lawyers in Canada.

Glen Wright

Glen Wright is the Chair of LeanCor LLC and LeanCor Canada Inc. (2008). Founded in 2005, LeanCor offers a unique combination of training and education, hands-on consulting and outsourced logistics services.

Glen was appointed to the Commission for Environmental Cooperation, created as part of NAFTA and served as the Chair of the Joint Public Advisory Committee (JPAC) in 2010. JPAC is composed of 15 citizens, five from each country including Canada, the United States and Mexico.

He was appointed the Chair of Hydro One Inc. by Premier Ernie Eves in June 2002, with a mandate to reorganize its governance structure and management teams. From 1996 until his appointment at Hydro One Inc., Mr. Wright served as the Chair of Ontario's Workplace Safety and Insurance Board (formerly the Workers' Compensation Board), where he led a major restructuring that resulted in significant improvements in the WSIB's financial position and customer service.

Mr. Wright has extensive experience in public policy and government, having been a key political advisor to a number of National and Provincial leaders. He also served as a Member and Co-Chair of the International Democratic Union, an organization representing political parties from 32 countries.

Glen's private sector career has focused primarily on the insurance and actuary fields where he founded and operated one of the top ten pension and benefit companies in Canada. In addition, he has served on the board of a wide range of corporations, charitable and not-for-profit organizations, and is currently serving as the Chairman of Waterloo North Hydro.