

Canadian Energy Innovation Summit

Summary Report

February
27 & 28, 2014

MaRS Discovery District
Toronto, Ontario



ADVANCED ENERGY CENTRE
MaRS Cleantech | Ontario, Canada



Introduction

On February 27 and 28, 2014, the Government of Ontario, in partnership with the MaRS Discovery District, hosted the first ever Canadian Energy Innovation Summit (CEIS).

The Summit was convened to advance the Canada-wide dialogue around the future of our energy sector.

This report captures the themes and ideas that emerged from the day's discussions and conversations to inform Ontario's input into the Council of the Federation's (COF) 2014 Canadian Energy Strategy and galvanize collaboration.



DR. ILSE TREURNICHT, CEO MARS DISCOVERY DISTRICT, WELCOMES THE ATTENDEES TO THE CANADIAN ENERGY INNOVATION SUMMIT



Summit Overview

Energy makes a critical contribution to the wealth and well-being of Canadians. Higher global energy demand and the evolution toward a lower-carbon economy are drivers shaping today's world economy. The International Energy Outlook 2013 has projected that world energy consumption will grow by 56 percent between 2010 and 2040, and that much of the growth in energy consumption occurs in countries outside the Organization for Economic Cooperation and Development (OECD).

As one of the few energy-rich countries in the world, Canada has the potential to become a global leader in energy innovation. However, rapid action and decision-making is required. We need models of innovation that are demand-driven, and facilitate speed and tolerance of risk. With risks come lessons that can be used to inform innovative solutions. This would create opportunities for innovative and fast-growing energy sectors such as micro-grids, clean technologies and renewable energy, while helping to diversify and improve productivity in traditional energy activities, while helping to diversify and improve productivity in traditional energy activities, creating jobs locally and allowing Canada to lead in global markets.

While energy innovation is critical to the competitiveness of Canada's energy sector and its global outreach, it is also essential to strengthening the competitive position of related Canadian industries and sectors whose reliance on energy inputs, and sensitivity to energy costs, have been accentuated in recent years.

The Canadian Energy Innovation Summit (CEIS) provided a platform for some of Canada's leading



HON. GREGORY F. SELINGER, PREMIER OF MANITOBA SPEAKS ABOUT THE RELEVANCE OF COLLABORATION AND CO-OPERATION IN THE ENERGY SECTOR

practitioners, thinkers, policy-makers, innovators, and other stakeholders in the energy technology space to come together and discuss what is happening across the country, discuss collaboration and discover ways to accelerate energy innovations. The Summit was designed to weave together strengths and advances being made across the country into a more integrated picture of Canada's energy future.

The five themes that emerged as advice to the Council of the Federation (COF) provided a much-needed practical look at how all of Canada's provinces and territories can work together to achieve leadership in an expanding and competitive global market. Throughout the day, the importance and relevance of communicating Canada's energy success and increasing awareness of the positive innovative projects currently underway across the country were emphasized. There was strong

consensus that there is a need to increase inter-jurisdictional cooperation on energy; expand partnerships between government and the private sector, particularly in financing; capitalize on opportunities in global markets; and recognize the benefits of energy innovation in Aboriginal communities.

The Summit reinforced the idea that new and emerging energy technologies are drivers of economic prosperity, bringing highly skilled jobs, a secure and sustainable energy future, and a

strong economy that exports Canadian innovation. The success of the Summit is ultimately found in harnessing the insights, expertise, and optimism of some of Canada's leading energy thinkers, policy-makers, and innovators to advance the national dialogue. It is crucial that these ideas are voiced in the Canadian Energy Strategy when Premiers attend the Council of the Federation meeting this summer so that all Canadians can work together to make them a reality.

“I don't think the Canadian energy strategy is ever done. I think it is something that will grow. Making sure that it is not just about elected folks and that it really becomes for all Canadians – a strategy Canadians feel they are connected to.”

- Hon. Diana McQueen, Minister of Energy, Alberta

“One of the things that today has proven [is that] we need innovation in government to help make all of this work.”

- Murray Coolican, Deputy Minister of Energy, Nova Scotia

Summit Highlights

Ontario Premier Kathleen Wynne kicked off the Summit by highlighting Ontario's \$8 billion cleantech sector, emphasizing the importance of creating an innovation ecosystem that brings together public, private and non-profit organizations to create opportunities for collaboration. To facilitate this goal, Premier Wynne announced the launch of the Advanced Energy Centre at the MaRS Discovery District, explaining that "the Centre will help homegrown energy innovations reach new markets in Canada and overseas. It will support entrepreneurs in innovative energy technologies and will allow them to succeed in the global market place. It will showcase to the world the expertise that Ontario has to offer. The Advanced Energy Centre is one example of how partnerships between the public and private sector can yield exceptional results."

Manitoba Premier Greg Selinger emphasized that the COF is keen to develop the necessary policies and frameworks to encourage energy innovation. He also acknowledged the important role that the private sector plays in developing practical solutions. He challenged the audience to think about how to transform rural, off-grid, and diesel-dependent communities into clean energy communities.

As a sign of their shared enthusiasm for furthering collaboration and cooperation in energy-related efforts, Premier Wynne and Premier Selinger signed a Memorandum of Understanding (MOU) at the Summit. The MOU will help facilitate communication to identify areas of cooperation that will offer the potential to advance energy innovation and economic development in both jurisdictions.

A provincial panel comprised of Daryl Dalley, Minister of Natural Resources from Newfoundland and Labrador, Diana McQueen, Minister of Energy from Alberta, and Murray Coolican, Deputy Minister of Energy from Nova Scotia discussed the need for innovation in government and the public service overall and not just in energy technology. The message was that governments should support each other in facilitating Canada's energy goals. Participants were reminded that the Canadian Energy Strategy is important, not simply as a self-contained exercise, but as an ongoing collaborative effort. Panelists also discussed the need for innovation in government energy programs and initiatives, and not just in energy technology. Newfoundland currently leads the COF discussions on energy innovation and Minister Dalley heard

CANADIAN ENERGY INNOVATION MOMENTUM PANEL. FROM LEFT TO RIGHT PATRICE MERRIN, CCEMC; GAETAN THOMAS, NB POWER; TOM RAND, MARS CLEANTECH, DR. ALI HAJ-FRAJ, SIEMENS AG AND LISA DE MARCO, NORTON ROSE FULBRIGHT





CANADIAN CLEAN TECHNOLOGY OPPORTUNITIES PANEL. FROM LEFT TO RIGHT: CHRIS HENDERSON, LUMOS ENERGY; ROBERT WATSON, SASKPOWER, ELYSE ALLAN, GE CANADA; MURRAY MCCAIG, MARS CLEANTECH FUND AND VELMA MCCOLL, EARNSCLIFFE STRATEGY GROUP

several ideas that will be useful to shaping these elements of the strategy.

Ontario Minister of Energy Bob Chiarelli also emphasized the progress that Ontario has made in creating a more efficient system to better manage energy use. From the creativity and ingenuity that went into the development and implementation of smart meters to the Energy Apps that will help Ontario families and businesses better understand and manage their electricity use, it is clear that “innovative solutions represent part of the future of energy in Ontario”.

There were four other panels through the day:

- *Canadian Energy Innovation Momentum* where speakers discussed innovative projects already underway across the country, from carbon pricing in Alberta to tidal power in the Bay of Fundy, as well as a local Canadian startup testing underwater energy storage in Aruba.
- *Canadian Clean Technology Opportunities* outlined the benefits that emerging technologies and the inclusion of Aboriginal communities can have on Canada’s economic wellbeing and on Canada’s future in energy security and sustainability.
- *How Energy Innovation Drives Canada’s Key Economic Sectors* featured representatives from the forestry, real estate, oil sands, and Information and Communications Technology (ICT) sectors. They discussed specific ways that these sectors are already shifting Canada’s clean energy future.
- *Canada’s Clean Technology Future in Global Markets* focused on the need for companies both large and small to build their businesses with an export mindset.

Summary Recommendations

Following excellent conversation and ideas, the following five themes emerged as key advice for the Premiers, Energy Ministers and governments for the Council of the Federation and the Canadian Energy Strategy.

Each one builds on the areas that the Council of the Federation (COF) has identified to advance technology and innovation under the Canadian Energy Strategy and the excellent work underway across the country.

1. Greater inter-jurisdictional collaboration

Summit panelists and attendees agreed on the need for greater collaboration amongst Canadian jurisdictions to identify common goals and shared interests, and to develop a Canada-wide vision that recognizes and leverages the diversity of the country's natural assets.

This speaks to the need to forge economic partnerships amongst provinces and territories in order to realize greater national and international successes.

Areas for collaboration

- Creating a long-term strategic framework for collaborative provincial and territorial sustainable energy innovation.
- Negotiating bilateral/multilateral agreements and jurisdictional partnerships to collectively accomplish goals and share best practices. The most recent example of this is the MOU signed between Manitoba and Ontario focusing on energy innovation and efficiency.



“I know there is a hunger for having a pan-Canadian strategy.”

- Hon. Gregory F. Selinger, Premier of Manitoba

“Provinces and territories have shown how effective we can be when we collaborate and work on shared priorities. We know that we have to continue to innovate and share those ideas across the country so that we can work toward a smarter and more sustainable energy future.”

- Hon. Kathleen Wynne, Premier of Ontario

2. Partnerships with stakeholders

Stakeholders discussed how the private sector could play a larger role in collaborating with government and public utilities, among others. Success in innovation is a team effort – organizations of all shapes and sizes across different sectors have an important role to play. Institutions and organizations that incubate, support, and fund early-stage technology innovation are crucial. Panelists urged both public and private sector partners to “double down” on notable successes like the Climate Change Emissions Management Corporation, Sustainable Development Technology Canada, Ontario’s Innovation Demonstration Fund and MaRS Discovery District, as well as support for a growing set of Canadian technology innovators.

Areas for collaboration

- Partnerships and joint ventures between the private sector and public utilities. Utilities have a key role to play as their relationship with their customers is changing rapidly, enabled by information and technology. For example, New Brunswick Power’s partnership with Siemens.
- Multinational enterprises (MNEs) sourcing solutions from their supply chain, maturing technology companies, as well as entering into collaborative R&D partnerships with research institutions. An example would be General Electric’s collaboration with its suppliers on R&D to better support their customers.

“When you get people engaged and involved in driving change and transforming your institution, your country, your province, your industry sector – what a difference that can make!”

Annette Verschuren, O.C., Chair and CEO, NRStor

“If we are going to sell a product that is Canadian branded, the bigger the market that can be domestically obtained the more ability we have to go out internationally.”

- Vicky Sharpe, President & CEO, Sustainable Development Technology Canada

“The number one thing in Canada that drives innovation is collaboration.”

- Elyse Allan, President and CEO, GE Canada

“Being a proud Canadian, I want it to be a creator of innovation in the global market opportunity. I want to see us building the Bombardiers and the Blackberries of the new energy economy. And I want to see it as a venture capital investor because I want to generate a ton of returns for investors, and generate wealth and jobs here in Canada. It takes a lot of partnerships to take a company from an idea to a successful global corporation.”

- Murray McCaig, Managing Partner, MaRS Cleantech Fund



HOW ENERGY INNOVATION DRIVES CANADA'S KEY ECONOMIC SECTORS PANEL. FROM LEFT TO RIGHT: BRUCE ORLOFF, IBM CANADA; DAN WICKLUM, COSIA; GORDON HICKS, BROOKFIELD JOHNSON CONTROLS; CATHERINE COBDEN, FOREST PRODUCTS ASSOCIATION OF CANADA AND ALEX WOOD, SUSTAINABLE PROSPERITY

- MNEs sharing resources with small and medium enterprises (SMEs). One idea would be to have multinationals offer their test facilities to partners to prove their technologies.
- Utilities, such as Toronto Hydro, piloting and testing new technology from start-ups.
- Companies of all sizes leveraging expertise of export-oriented specialists including Foreign Affairs and its consular services and Export Development Canada (EDC).
- Expand understanding and use of public-private partnerships such as the MaRS Advanced Energy Centre, SDTC, World Bank Group's International Finance Corporation's partnership with the Government of Canada on the International Finance Corporation (IFC) – Canada Climate Change Program.
- Aboriginal partnerships with government and the private sector. An example would be to increase the reach of clean and renewable energy in Aboriginal communities through micro-grid and bio-energy projects thus reducing off-grid dependency on diesel.

3. Growing Canada's global energy innovation footprint

Canada's is blessed with a wealth of natural energy assets. Although this is a point of pride, CEIS panelists also highlighted the impressive technologies and businesses being developed by innovators across the country, reminding the audience that Canada is not only rich in resources, but also in home-grown talent, expertise and innovation. These ongoing efforts present an opportunity for different jurisdictions to work together to leverage our various energy solutions, showcase our strengths on the global stage, and become an internationally recognized leader in the energy innovation.

Areas for collaboration

- Ensuring local procurement policies and practices support adoption of home-grown innovation, consistent with trade agreements, as it is essential that Canada is able to show domestic success in order to compete globally.
- Recognizing persisting jurisdictional differences in energy needs, resources and regulations. Canada needs to collaborate to present a united voice on the international stage.

- Supporting an infrastructure of industry-academic R&D and innovation collaboration with an emphasis on export-driven technology transfer and innovations.
- Developing new markets with export potential and diversifying Canada’s export destination, by leveraging existing assets. Some examples would include Ontario’s Green Button program, which is a partnership between government, utilities and the private sector leveraging the data from Ontario’s smart meters and meter data repository.
- Sharing technologies and best practices through models such as Canada’s Oil Sands Innovation Alliance (COSIA) for “cooperative competition”, where competitors work together to achieve environmental improvements and efficiencies.

“[MaRS is] a one stop shop where you can come to see a ton of great ideas. We need to continue to expand this since this is what attracts venture investors and corporations from around the world. They want to come to Canada and deal with the best of the best. I think this is where the provinces need to be coordinating to show them the best.”

- Murray McCaig, Managing Partner, MaRS Cleantech Fund

“Canada is a big country with a very small population; our competitive advantage will rely on our ability to collaborate with each other – across sectors, across geographic boundaries, private sectors – medium and large, and to have the focus on harnessing that collaboration for the global market.”

- Dr. Ilse Treurnicht, CEO, MaRS Discovery District

“We are doing some excellent things that many people don’t know about internationally. We need to tell our story. We are doing some good things that are environmentally responsible and good for our communities.”

- Hon. Gregory F. Selinger, Premier of Manitoba



CANADA’S CLEANTECH FUTURE IN GLOBAL MARKETS PANEL. FROM LEFT TO RIGHT: NICHOLAS PARKER, GLOBAL ACCELERATION PARTNERS; ROD LEVER, EDC; PERRY STONEMAN, CAPGEMINI; VICKY SHARPE, SDTC AND CELINE BAK, ANALYTICA ADVISORS



4. Financing innovation

The COF has already identified risk capital and early stage financing as critical to success for energy innovation. Speakers at the Summit advised governments that these steps would make immediate progress for Canadian clean technology companies.

Areas for collaboration

- Utilities must be allowed to work closely with the private financial sector to co-develop solutions and reduce the regulatory risk that solutions will not be adopted.
- Co-operation across jurisdictions on standardization or aligned frameworks for adoption of innovations will provide larger markets that attract investors.
- Increase sources of capital that invest in innovation. There are already several important players in the country including Climate Change and Emissions Management Corporation (CCEMC), Grand Challenges, Sustainable Development Technology Canada (SDTC), IDF, and MaRS Cleantech Fund.
- Engaging with investors, lenders and international financial institutions on financial innovation for international markets.
- Accessing international pension funds through investment vehicles like Norway's sovereign wealth fund, the largest of its kind in the world.
- Create a new contracting mechanism with and for remote communities.



“Cleantech is infrastructure and infrastructure has different characteristics. You cannot treat cleantech as IT. When you first demonstrate a clean technology, it is often very capital intensive to get those projects off the ground.”

- Tom Rand, Managing Partner, MaRS Cleantech Fund

5. Realizing the social and economic benefits of energy innovation

The social and economic benefits of energy innovation are closely linked. When it comes to the energy sector and energy markets, social inclusion and public good are thought to be at odds with economic success.

The CEIS discussions emphasized that there does not need to be a tradeoff between social inclusion and

economic prosperity. Luis Alberto Moreno, President of Inter-American Development Bank, stressed that once we factor in the avoided costs associated with human health, environmental degradation, and infrastructural maintenance and cleanup, it is apparent that there is much to be gained from energy innovation.

MINISTER'S ROUNDTABLE:
MURRAY COOLICAN, DEPUTY
MINISTER OF NOVA SCOTIA'S
DEPARTMENT OF ENERGY; HON.
DIANA MCQUEEN, MINISTER OF
ENERGY FOR THE GOVERNMENT
OF ALBERTA; HON. DERRICK DALLEY,
MINISTER OF NATURAL RESOURCES
FOR THE GOVERNMENT OF
NEWFOUNDLAND & LABRADOR
AND DR. ILSE TREURNICHT, MARS
DISCOVERY DISTRICT



Areas for collaboration

- Collaboration on an energy innovation strategy for remote communities, which could be put forward from the COF to the federal government.
- Operational improvements/infrastructure developments. For example, SaskPower signed an agreement with First Nations Power Authority, and 74 First Nations to promote new power development in the province.
- Leverage our bio-energy resources, which represent technological transformations that need a different and interactive approach to see how remote and off-grid resources can be better utilized including from the forestry sector.
- A number of the technology innovations explored also supported the transition to a lower-carbon economy in Canada. The linkages between energy technology acceleration and carbon benefits should be highlighted within the Canadian Energy Strategy.

“We have about 300 aboriginal and remote communities that are off-grid. They are using mostly diesel. This represents about 200,000 people in the country and they are paying up to \$1.30 Kwh when the average Manitoban pays about \$7c/Kwh. There is an opportunity in there.”

- Hon. Gregory F. Selinger, Premier of Manitoba

“There is no single economic driver to encourage Aboriginal community participation as big as energy.”

- Chris Henderson, Founder, Lumos Energy

Conclusion

The Canadian Energy Innovation Summit brought governments and a wide range of stakeholders together to explore opportunities for further understanding and collaboration across the innovation ecosystem. The Summit showcased a number of success stories across the country and highlighted areas for greater growth and expansion. This report will now form part of Ontario's contribution to the development of the Canadian Energy Strategy through the Council of the Federation. A copy will be provided to Premiers, Energy Ministers and their departments in all provinces and territories as input for their work over the coming months and years. Through a strong focus on energy innovation, Canada can capitalize on growing domestic and global markets and bring economic, environmental and social benefits to all Canadians.



ANNETTE VERSCHUREN, O.C., CHAIR AND CEO, NRStor
DELIVERS CLOSING REMARKS



“In general, the additional benefits of employing renewables are typically left out in the decision-making process when compared to options for electricity generation. A solid quantification of these benefits can offer decision-makers a rationale to promote investment and help support regulations that will ease market entries for these technologies.”

- Luis Alberto Moreno, President-Inter-American Development Bank

“One of [Newfoundland and Labrador's] largest challenges are those communities that are off-grid. We have gone into a special project of wind-hydrogen and diesel where we are running our pilots and research and having incredible success monitoring systems which will dispatch the difference sources of generation. We've seen savings of 750,000 liters of diesel.”

- Hon. Derrick Dalley, Minister of Natural Resources, Newfoundland & Labrador

List of Attendees

Farouk	Adatia	Chief of Staff to the Premier of Alberta	Province of Alberta
Omar	Alghabra	Distinguished Visiting Fellow, Ryerson University Faculty of Engineering	Ryerson University
Elyse	Allan	President & CEO	GE Canada
Colin	Andersen	CEO	Ontario Power Authority
Eli	Angen	Associate Regional Director, Ontario	Pembina Institute
Robert	Asselin	Associate Director of the Graduate School of Public and International Affairs, University of Ottawa	University of Ottawa
Celine	Bak	President	Analytica Advisors
Karim	Bardeesy	Executive Director, Policy	Office of the Premier of Ontario
Clare	Barnett	Communications, Ministry of Economic Development	Province of Ontario
Ernie	Bartucci	Assistant Deputy Minister, Intergovernmental Affairs	Province of Ontario
Tom	Bedford	Senior Sector Advisor, Ministry of Economic Development	Province of Ontario
Chris	Benedetti	Principal	Sussex Strategy Group
Lynn	Betzner	Deputy Minister, Intergovernmental Affairs	Province of Ontario
Andrew	Bevan	Principal Secretary	Province of Ontario
Charles	Bird	Principal	Earncliffe Strategy Group
Bob	Bleaney	Vice President, External Relations	CAPP
Daniel	Bonin	Public Affairs Attaché	Government of Quebec, Toronto Office
Charles	Bown	Deputy Minister, Natural Resources	Province of Newfoundland and Labrador
Mark	Brosens	Producer	TVO
Jim	Burpee	President & CEO	Canadian Electricity Association
Bruce	Campbell	President & CEO	Independent Electricity System Operator
Joe	Carruthers	Affairs Specialist, Ministry of Intergovernmental Affairs	Province of Ontario
Cam	Carver	CEO	Temporal Power
Catherine	Cobden	Executive Vice President	Forest Products Association of Canada
Beckie	Codd-Downey	Press Secretary, Office of Hon. Bob Chiarelli, Minister of Energy	Province of Ontario

Sam	Colalillo	Manager, Renewable Energy at Ontario Ministry of Energy	Province of Ontario
Murray	Coolican	Deputy Minister, Energy	Nova Scotia Department of Energy
Tom	Corr	President & CEO	Ontario Centres of Excellence
Hon. Derrick	Dalley	Minister of Natural Resources	Province of Newfoundland and Labrador
Rocco	Delvecchio	Vice President, Government Affairs	Siemens Canada Limited
Lisa	DeMarco	Partner	Norton Rose Fulbright
Frank	Des Rosiers	Assistant Deputy Minister, Natural Resources	Government of Canada
John	Dillon	Vice President	Canadian Council of Chief Executives
Ron	Dizy	Executive Vice President & Chief Revenue Officer	ENBALA Power Networks
Jon	Dogterom	Practice Lead	Cleantech Practice
Philip	Donelson	Senior Policy Advisor, Office of the Minister of Energy	Province of Ontario
Adrienne	Downey	Executive Director, Business Development	ENERCON Canada
Donna	Dressler	General Manager, Strategic Relations	SaskPower
Sean	Drygas	Vice President, Corporate Development	Bullfrog Power
Lezlee	Dunn	Director of Federal-Provincial Relations	Government of Manitoba
Timothy M.	Egan	President & CEO	Canadian Gas Association
Josephina	Erzetic	Vice President, Corporate Business Development	Ontario Power Generation
Graham	Fox	President and CEO	Institute for Research on Public Policy
Pierre	Gauthier	CEO	Alstom
Riley	Georgsen	Chief of Staff to the Alberta Minister of Energy	Province of Alberta
Tim	Gibson	Vice President, Smart Grid	Siemens Canada
John	Gorman	President & CEO	CanSIA
Adam	Grech	Special Assistant, Tour	Office of the Premier of Ontario
Ted	Gruetzner	Director, Provincial Relations	Ontario Power Generation
Dr. Ali	Haj-Fraj	Global General Manager, Power Technologies	Siemens AG
James	Haley	Executive Director for Canada	Inter-American Development Bank
Tyler	Hamilton	Editor-In-Chief	Corporate Knights
Brad	Hammond	Director of Communications, Office of Hon. Bob Chi	Province of Ontario

Mark	Hazelden	Director of Regional & Sectoral Economic Strategies	Office of the Premier of Ontario
Toby	Heaps	CEO	Corporate Knights Inc.
Andrew	Heintzman	President & Co-Founder	Investeco Capital
David	Helliwell	CEO	Pulse Energy
Chris	Henderson	Founder	LUMOS Energy
Andrew	Heppelle	Global Director, Capgemini Centres for Global Utilities	Capgemini
Brian	Hewson	Senior Manager, Strategic Policy	Ontario Energy Board
Gordon	Hicks	President	Brookfield Johnson Controls
Ross	Hornby	Vice President, Government Relations and Policy	GE Canada
Sally	Housser	Press Secretary to Cabinet	Government of Manitoba
Darrell	Hynes	Executive Assistant to the Minister of Natural Resources	Province of Newfoundland and Labrador
Serge	Imbrogno	Deputy Minister, Energy	Province of Ontario
Eddy	Isaacs	CEO	Alberta Innovates: Energy & Environment Solutions
Jamie	James	President	Tower Labs @ MaRS
Rick	Jennings	Assistant Deputy Minister, Energy	Province of Ontario
Keley	Katona	Executive Assistant, Deputy Minister's Office, Ministry of Energy	Province of Ontario
Julie T.	Katzman	Executive Vice-President & Chief Operating Officer	Inter-American Development Bank
Jane	Kearns	Senior Advisor	Cleantech Practice
Greg	Kiessling	Executive Chairman	Bullfrog Power
Silvester	Komlodi	Senior Policy Analyst, Federal-Provincial Relations	Government of Manitoba
Marie-Helene	Labrie	VP, Government Affairs	Energem
Gord	Lambert	Vice President, Sustainable Development	Suncor
Rod	Lever	Cleantech Lead	Export Development Canada
Tim	Lewis	Director, Federalism and Institutions	Province of Ontario
Bruce	Lourie	President	Ivey Foundation
Brent	Lowe	Vice President, Organizational Effectiveness	Bullfrog Power
Paolo	Maccario	Chief Operating Officer & General Manager	Silfab Ontario Inc.
Paul	Manias	Managing Director	OMERS Strategic Investments
Carmine	Marcello	President & CEO	Hydro One Inc.

Brad	Marks	Regional Director	GE Digital Energy
Mike	Martelli	Senior Vice President, Hydro Thermal Operations	Ontario Power Generation
Susan	McArthur	Managing Partner	Greensoil Investments
Murray	McCaig	Managing Partner	MaRS Cleantech Fund
Devin	McCarthy	Director, Transmission & Distribution	Canadian Electricity Association
Velma	McCull	Principal	Earncliffe Strategy Group
Jane	McDonald	Senior Energy Policy Officer	Manitoba Hydro
Gillian	McEachern	Campaigns Director	Environmental Defence
David	McFadden	Partner	Gowlings
John	McGrath	Principal	The McGrath Group
Julia	McNally	Director, Market Transformation	Ontario Power Authority
Hon. Diana	McQueen	Minister of Energy	Province of Alberta
Martin	Medeiros	Senior Advisor, External Supply, Energy Supply and	Province of Ontario
Fred	Meier	Deputy Minister of Municipal Government	Province of Manitoba
Jodi	Melnychuk	Director, Communications and Operations, Cabinet Office	Province of Ontario
Patrice	Merrin	Board of Directors	Climate Change and Emissions Management Corporation
Herb	Metcalfe	Senior Partner	The Capital Hill Group
Lorne	Midford	Vice-President, Generation Operations	Manitoba Hydro
John	Millen	Manager (Acting), Manufacturing Investment Unit	Province of Ontario
Tom	Mitchell	President and CEO	Ontario Power Generation Inc.
Luis Alberto	Moreno	President	Inter-American Development Bank
Paul	Murphy	Former President & CEO	Independent Electricity System Operator
Ken	Nakahara	Director, Transmission and Distribution Policy	Province of Ontario
Jatin	Nathwani	Executive Director	Waterloo Institute for Sustainable Energy
Paul	Norris	President	Ontario Waterpower Association
Bob	Oliver	Chief Executive Officer	Pollution Probe
Mark	Olsheski	Senior Policy Advisor, Office of Hon. Bob Chiarell	Province of Ontario
Bruce	Orloff	Smart Grid Leader	IBM Canada
Nicholas	Parker	Managing Partner	Global Acceleration Partners (GAP)

Alex	Phillips	Senior Policy Advisor, Office of the Premier	Province of Ontario
Ian	Philp	Director of Operations	Advanced Energy Centre
Tom	Rand	Managing Partner & Senior Advisor	MaRS Cleantech Fund
Michael	Reid	Assistant Deputy Minister, Strategic, Network, and Agency Policy Division, Ministry of Energy	Province of Ontario
Gord	Reynolds	Managing Director, Canadian Utility Practice	Capgemini
Euan	Robertson	President & Chief Operating Officer	MaRS Discovery District
Alexandre	Rosa	Manager of Infrastructure and Environment Sector	Inter-American Development Bank
Mark	Rudolph	President & CEO	justenvironment
Al	Sanderson	Chief Assistant Deputy Minister, Strategy and Integration Division at Department of Energy	Province of Alberta
Paul	Scott	Assistant Deputy Minister, Intergovernmental Affairs	Province of Newfoundland and Labrador
Ed	Seaward	Manager, Market Opportunity Development	Union Gas Limited
Ravi	Seethapathy	Manager, Systems Innovation & Advanced Grid Development	Hydro One Networks Inc.
Gregory	Selinger	Premier	Government of Manitoba
Kaili	Sermat-Harding	Assistant Deputy Minister, Conservation and Renewable Energy Division, Ministry of Energy	Province of Ontario
Vicky	Sharpe	President & CEO	Sustainable Development Technology Canada
Benjamin	Shinewald	President & CEO	BOMA Canada
Merran	Smith	Director	Clean Energy Canada at Tides Canada
Sandy	Stewart	Acting CEO	PEI Energy Corporation
Perry	Stoneman	Corporate Vice President & Head of Sectors and Utilities	Capgemini
Milton	Sussman	Clerk of the Executive Council	Government of Manitoba
Usman	Syed	Senior Manager, Smart Grid & Network Policy, Ministry of Energy	Province of Ontario
Rebecca	Teare	Policy Advisor, Deputy Minister's Office, Ministry of Energy	Province of Ontario
Andrew	Teichman	Vice President	Ontario Power Generation
David	Teichroeb	Business Development, Alternative & Emerging Technologies	Enbridge Inc.
Andrew	Teliszewsky	Chief of Staff, Office of Hon. Bob Chiarelli, Minister of Energy	Province of Ontario

Matthew	Theall	Presidential Innovation Fellow, MyData Initiatives	U.S. Department of Energy
Gaëtan	Thomas	President & CEO	NB Power
Dave	Thorton	Senior Policy Advisor, Office of Hon. Bob Chiarell	Province of Ontario
W, Scott	Thurlow	President	Canadian Renewable Fuels Association
Wendy	Tilford	Deputy Minister, Ministry of Economic Development, Trade and Employment	Province of Ontario
Vicky	Trépanier	Chief Representative - Bureau du Québec à Toronto	Government of Québec
Dr. Ilse	Treurnicht	CEO	MaRS Discovery District
Keith	Triginer	Independent	Independent
Philip	Turi	General Counsel & Director, Global Business Services	Canadian Manufacturers & Exporters
Tom	Vair	Executive Director	Sault Ste. Marie Innovation Centre
Curtis	VanWalleghem	Chief Executive Officer	Hydrostor Inc.
Henry (Hank)	Venema	Vice-President, Business Development	International Institute for Sustainable Development (IISD)
Bala	Venkatesh	Prof and Director	Centre for Urban Energy, Ryerson University
Annette	Verschuren	Chair & CEO	NRStor Inc.
Peter	Wallace	Secretary of the Cabinet, Cabinet Office	Province of Ontario
Kim	Warren	VP, Operations & Chief Operating Officer	Independent Electricity System Operator
Michelle	Wasylyshen	Manager, Public Affairs	Enbridge
Robert	Watson	President & CEO	SaskPower
Dan	Wicklum	CEO	Canada's Oil Sands Innovation Alliance (COSIA)
John	Wiebe	President & CEO	Globe Group
Daryl	Wilson	President & CEO	Hydrogenics
Steve	Winokur	Managing Director, Investment Banking	Canaccord Genuity
Alex	Wood	Senior Director, Policy and Markets	Sustainable Prosperity
Chris	Wray	Senior Policy Advisor (Planning and Conservation) at Office of the Minister of Energy	Province of Ontario
Richard	Wunderlich	Director, Smart Grid	Siemens Canada
Hon. Kathleen	Wynne	Premier	Province of Ontario
Mel	Ydreos	Interim President & CEO	Ontario Energy Association
Andrew	Younger	Minister of Energy	Nova Scotia Department of Energy