WHO WE ARE

The IESO ensures the reliability of Ontario’s power system on behalf of all Ontarians. As part of our unique and critical responsibilities, we work with stakeholders, government, Indigenous and other communities to provide an efficient supply of electricity when and where it is needed.

OUR PURPOSE

Electricity is the backbone of modern civilization. We are the heartbeat, ensuring affordable electricity is available where and when people need it.

OUR VISION

Recognized as leading the charge to a more competitive electricity marketplace.

WE DO THIS THROUGH

Transparency
We strive to be transparent in what we do and how we communicate

Fairness
We make unbiased, independent decisions based on sound evidence considering economic efficiency, ratepayer value and government policy

Sustainability
We consider economic, social and environmental sustainability in everything we do

Collaboration
We partner with others to drive better outcomes

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Welcome to the IESO’s fifth annual Electricity Summit.

Building on the discussions that took place in prior years, our focus for today is the electricity marketplace of the future. In bringing together energy leaders from across North America to share their experiences and insights, our goal is to inform our plans for the future, while delivering the power Ontarians need at the lowest cost.

The past 10 years have been defined by change, and it shows no signs of abating. Every aspect of the energy sector is being transformed, impacting how electricity is produced, delivered, consumed and regulated. In response, the IESO is committed to working with stakeholders, communities and partners to enable the innovation that will help us balance supply and demand more cost-effectively and drive competition to unlock new value for consumers. Together, we can create an environment of opportunity – one that allows each of us to benefit from new approaches, new structures, new technologies and new business models.

Of course, achieving this objective – even as the pace of change accelerates – depends on sharing information, and lessons learned, and focusing on the priorities that deliver the most benefit across the sector. Today’s agenda was developed so we can continue our dialogue about the possibilities and challenges associated with this ongoing evolution. I encourage you to share your ideas and opinions, ask tough questions, and play an active role in shaping Ontario’s energy future.

Peter Gregg
President and Chief Executive Officer
IESO
Engagement principles

Today’s Electricity Summit is one of many examples of how the IESO connects with stakeholders and communities to exchange thoughts and ideas on issues of importance to the sector. These connections are always conducted based on a set of seven engagement principles that ensures inclusiveness, neutrality, respect and fairness.
8:00 am
Registration and Breakfast

9:00 am
Opening Remarks

9:20 am
Distributed Energy Resource Trends in a Global Context

9:50 am
Overcoming Barriers to Storage

Did you know?
Innovation is critical to maintaining reliability in the face of an increasingly decentralized electricity system. To create a shared, fact-based understanding of emerging economic, technical, environmental, and social impacts to the sector, the IESO is launching an Innovation and Sector Evolution White Paper series. Two of the white papers will examine potential models for expanded participation of DERs in IESO-administered markets, as well as investigate the capability of DERs to provide transmission- and distribution-level products and services.

Did you know?
As Ontario moves to a more competitive and technology-neutral approach to acquiring products and services, energy storage resources are seeking opportunities to deliver greater value. With the support of the Energy Storage Advisory Group (ESAG), the IESO released a report on Removing Obstacles for Storage Resources in Ontario in 2018, which sets out mitigating strategies and recommendations in removing these barriers. Addressing obstacles to fair competition, and optimizing the participation of energy storage resources, will require ongoing collaboration and dialogue among stakeholders in the electricity sector.
**Agenda**

### 10:20 am
**Break**

### 10:40 am
**Load-Serving Entities in Transition**

**Kathleen Spees**, Principal, The Brattle Group

This session will delve into the ins and outs of how existing load-serving entities (LSEs) work in other jurisdictions and discuss issues that are emerging with their structure today.

**As you listen, consider:**

- What are the primary benefits that should be sought to increase competition amongst buyers in Ontario electricity markets? What risks should be avoided?
- How can different LSE models support or hinder the sector’s ability to support innovation, new technologies and customer engagement? How might other models for increasing buy-side competition in Ontario’s electricity markets achieve better or worse outcomes?

### 11:05 am
**Panel: Structural Models for an Evolving Distribution System**

**Moderator: Katherine Sparkes**, Director, Innovation, Research and Development, IESO

**Lorenzo Kristov**, Consultant, Electric System Policy, Structure, Market Design

**David McFadden**, President, Generation Four Capital Corporation

**Sanem Sergici**, Principal, The Brattle Group

This panel will explore different viewpoints on emerging and evolving roles and responsibilities at the distribution level of the electricity system as DERs proliferate.

**As you listen, consider:**

- What impacts would these structural models have on Ontario’s electricity markets and the role of the local distribution company?
- How do the risks and rewards change for customers, local distribution companies and generators under these models?
- What are the opportunities for greater integration of DERs into the electricity market?

### 12:00 pm
**Lunch**

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**Did you know?**

The IESO has created a Market Development Advisory Group (MDAG) to support its efforts in evolving Ontario’s electricity market to cost-effectively ensure reliability in the near and longer terms. With a forward-looking approach, MDAG will take into account market experience and technical expertise within Ontario and other jurisdictions to provide guidance and advice in support of the development and evolution of IESO markets.

**Did you know?**

DERs promise wide-ranging benefits – from increased consumer choice and electricity market competition, to greater electricity system resilience and flexibility, and the avoidance or deferral of large-scale infrastructure development, but they also pose operational challenges. The Energy Transformation Network of Ontario has just released a report on Structural options for Ontario’s electricity system in a high DER future. The report provides an overview of drivers for DER development in Ontario and the roles and responsibilities associated with potential models for integrating DERs into Ontario’s electricity system in a way that maintains system reliability and customer affordability.
1:00 pm  
**Energy Efficiency in the Market**

Matt Golden, CEO, Recurve

This session will discuss how energy efficiency can function as a flexible resource to reduce capacity costs, and avoid or defer transmission and distribution investments, and deliver carbon savings, by leveraging markets and competitive procurements to drive innovation and private investment.

**As you listen, consider:**
- What are the opportunities or barriers to enabling energy efficiency to participate in a capacity auction?
- How can energy efficiency compete with traditional generation resources?

1:30 pm  
**Panel: Energy Efficiency in Transition**

Moderator: Frank Kallonen, President and CEO, Greater Sudbury Hydro Inc.
Philippe Dunsky, President, Dunsky Energy Consulting
Stephen MacDonald, CEO, EfficiencyOne
Ersilia Serafini, President and CEO, Summerhill Group
Terry Young, Vice President, Policy, Engagement and Innovation, IESO

This panel will explore the challenges and opportunities associated with transitioning from Ontario’s previous conservation framework to a future state where energy efficiency may need to compete with other resources.

**As you listen, consider:**
- What is the role for markets, and what non-market supports are needed to optimize the contributions of energy efficiency?
- What are the best models for extracting the greatest value from energy efficiency?

2:20 pm  
**Break**

Did you know?
The IESO is committed to exploring how energy efficiency – the province’s cleanest and most cost-effective resource – can help to meet system needs. To that end, the IESO is developing a pilot auction to inform how energy efficiency could be enabled to compete in IESO-administered markets. The pilot will serve as a transitional mechanism for procuring energy efficiency as a capacity resource, and work to establish an open competition for delivery of energy efficiency and contribute to addressing the potential capacity gap in Ontario in 2023.

Did you know?
The way the IESO delivers energy efficiency programs is changing to provide more cost-effective and streamlined options. Programs will continue to help consumers reduce their electricity bills while making a lasting contribution to reducing long-term energy costs. The Grid Innovation Fund supports innovative opportunities to achieve these savings for Ontario consumers. The Fund supports projects that validate the performance of promising new technologies, practices and services - it also supports projects that identify and mitigate market barriers, or otherwise accelerate the adoption of competitive cost-effective energy solutions.
2:40 pm  
Executive Roundtable:  
Future Challenges to Prepare for Today

**Moderator:** Jessica Savage, Director, Corporate and Regulatory Affairs, IESO  
**Paul Grod,** President and CEO, Rodan Energy Solutions  
**Leonard Kula,** Vice President, Planning, Acquisition and Operations and Chief Operating Officer, IESO  
**Derek Lim Soo,** CEO, Peak Power  
**Annette Verschuren,** Chair and CEO, NRStor Inc.

This panel will explore how the sector can work together to use sector changes to the benefit of the market, value the needed services, maintain confidence and predictability in the process, create an opportunity for all resources and explore the speed at which these changes must and can happen.

**As you listen, consider:**
- What actions should the IESO and active participants in the electricity sector prioritize to both prepare for and drive further change?
- In a regulated industry, how can the sector adapt to the changes and keep up with the pace of change that is driven, in large part, by advances in technology?

3:30 pm  
Summit Wrap-up

**The Honourable Joe Oliver,** Chair, IESO Board of Directors

The IESO’s Board Chair will provide his perspectives on key learnings from the day and how the IESO will continue to engage with stakeholders and communities.

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**Did you know?**

With the electricity sector in a state of near-constant transformation, determining how to capitalize on the opportunities and address the challenges has never been more important. The IESO is using its unique vantage point on the system to enable innovation that supports the cost-effectiveness and reliability of the grid. The IESO recently released an *Innovation Roadmap* that sets out its approach to enabling innovation, and areas of focus that will help reduce system costs, deliver more consumer choice, and support greater energy resilience, security and sustainability.
Throughout the day, we will be using the web-based, audience interaction platform Slido.

To join our event on Slido, simply:

1. Connect to the Sheraton’s Wi-Fi network.
   - Wi-Fi network name: SHERATON_CONFERENCE
   - Password: IESO2019

2. Open a web browser and go to slido.com.

3. Enter the event code #iesosummit in the “join” box on the homepage.

4. Contribute to the conversation anonymously.

Continue the conversation on social media

Hearing interesting ideas at the Electricity Summit? Share your thoughts and join the online conversation by using the hashtag #IESOsummit.

The IESO will be live tweeting at @IESO_Tweets.
Philippe Dunsky
President
Dunsky Energy Consulting

Philippe Dunsky brings over 25 years of experience focused on a single passion: building an efficient, sustainable energy future. His firm advises governments and utilities across North America on strategies to responsibly accelerate energy transition, with a focus on energy efficiency, renewable energy, and clean mobility. His clientele spans governments and utilities in every Canadian province, bar none, in addition to those in more than a dozen U.S. states.

When he’s not leading his firm of 20+ experts, Philippe is Co-Chair of Efficiency Canada, the leading voice for energy efficiency in the country. He also sits on the Government of Canada’s energy thought leaders’ council, Generation Energy, and on the Government of Quebec’s Climate Change Advisory Council, among other appointments. Philippe studied economics at the University of London (UK), is fluent in English and French, and shares his life with his partner Allison, their two children Laila and Amiel, and Valentine the turtle.

Matt Golden
CEO
Recurve

Whether testifying before Congress or auditing Ellen DeGeneres’ house, Matt Golden has been spreading the word about energy efficiency for years.

An entrepreneur, policy advocate, and efficiency agitator, Matt is committed to bringing energy efficiency in the built environment to scale as a demand-side resource. He has made presentations on emerging efficiency markets to the U.S. Senate Finance Committee, at COP 21, and to the UK Parliament.

Matt is CEO of Recurve, formerly Open Energy Efficiency, the company that developed the OpenEEmeter, an open source platform for measuring energy savings and load shape based on smart meter data. Recurve works with a variety of utilities, government agencies and private efficiency providers to track demand flexibility using AMI data and enable pay-for-performance markets for demand flexibility.

Matt also leads the GBCI Investor Confidence Project implementing a system to certify commercial and multifamily Investor Ready Energy Efficiency™ projects in order to reduce transaction costs and develop actuarial data to unlock capital markets for commercial and multifamily retrofit projects.

Previously, Matt founded Recurve, which developed tablet-based energy auditing software for the residential energy-efficiency industry based on real-world experience gained through thousands of energy efficiency audits and retrofits as a licensed CA energy efficiency contractor. Tendril Networks acquired Recurve in 2012.
Peter Gregg  
*President and Chief Executive Officer*  
IESO

As IESO President and CEO Peter Gregg oversees the safe and reliable operation of Ontario's bulk electricity system, ensuring affordable electricity is available when and where people need it.

Peter is an experienced leader in Ontario’s electricity sector. As President and CEO of Enersource from 2014 to 2016, he was integral in the merger of four of Ontario’s largest local distribution companies to create Alectra Inc., the second largest municipally owned utility in North America. Prior to this, he served as COO at Hydro One Networks, overseeing effective power distribution across Ontario. Throughout his career, Peter has been recognized for his leadership abilities and in 2015 and 2016 received the Ontario Energy Association’s Leader of the Year Award.

Peter currently serves on the Council of Independent System Operators and Regional Transmission Organizations, which supports the delivery of sustainable and reliable electric power to millions of consumers across the continent. In addition, he sits on the Member Representatives Committee of the North American Electric Reliability Corporation and is a member of the Electricity Subsector Coordinating Council. Peter is Chair of the Electrical Safety Authority, as well as the Ontario Energy Network. He also sits on the Board of Directors of the Greater Toronto Airports Authority and the Canadian Electricity Association.

Peter received a Master of Business Administration from the Ivey School of Business and holds the Institute of Corporate Directors ICD.D (Certified Director) designation.

Paul Grod  
*President and CEO*  
Rodan Energy Solutions

Prior to co-founding Rodan Energy in 2003, Paul was a corporate and investment banker with CIBC World Markets and later practiced corporate finance and M&A law with Gowling Lafleur Henderson LLP, one of Canada’s largest national law firms.

Paul is a member of the Law Society of Ontario and holds a Bachelor of Political Science degree, a Bachelor of Laws degree, and a Master of Business Administration.

Frank Kallonen  
*President and CEO*  
Greater Sudbury Hydro Inc.

Frank Kallonen has been President and CEO of the Greater Sudbury Utilities Group of Companies, which includes Greater Sudbury Hydro Inc, Agilis Networks, @Home Energy and Convergen, since 2009.

Frank is well-known for his broad-based understanding of issues currently faced by the energy and telecommunications sectors. He began his career as a powerline electrician and has held positions in virtually every role in the electricity distribution industry since then. In 2000, Mr. Kallonen served on the IMO Market Commissioning Technical Advisory Team; he also led the Greater Sudbury Hydro project to prepare for the electricity market opening.
Today’s speakers

Appointed VP of Competitive Services in 2004, Frank managed the decoupling process to comply with the Affiliate Relationship Code and grew GSU’s telecom business from a municipal network to a northeastern Ontario regional carrier.

Frank is a founder of “CustomerFirst,” a collection of six progressive utilities in Ontario collaborating to achieve efficiencies and advocate for customer interests. He recently became Chair of the electricity distributors Association’s Northeast District.

Lorenzo Kristov
Consultant
Electric System Policy, Structure, Market Design

Lorenzo Kristov is an independent consultant focusing on power system transition to integrate high levels of renewable generation and distributed energy resources (DER), and to move to a more decentralized, layered structure. His areas of expertise include: wholesale market design; DER participation in wholesale markets; coordination of transmission and distribution operations, markets and planning; distribution system operator (DSO) models; distribution-level markets; energy resilience strategies and microgrids; and whole-system grid architecture.

From 1999 to 2017 Lorenzo worked at the California ISO as a principal in market design and infrastructure policy. In that position he was a lead designer of the locational marginal pricing (LMP) market system implemented in 2009. He later led initiatives to redesign the transmission planning and new generator interconnection processes to accommodate the rapid growth of renewable energy projects triggered by California’s renewable portfolio standards. Over the past several years he has worked on initiatives to integrate DERs into markets, operations and planning, to advance transmission-distribution coordination between the distribution utilities and ISOs, and has written papers and participated in national and international forums on power system evolution, DSO models and grid architecture.

Prior to joining the California ISO, Lorenzo was energy economist at the California Energy Commission (1995-9) and Fulbright Scholar in Indonesia (1993-4). He has a BS in mathematics from Manhattan College, an MS in statistics from North Carolina State University, and a PhD in economics from University of California Davis.

Leonard Kula
Vice President, Planning, Acquisition and Operations and COO
IESO

Leonard Kula is Vice President, Planning, Acquisition and Operations, and Chief Operating Officer at the IESO. In this role, Leonard oversees planning, market design, resource and transmission procurement, real-time operations and engineering, and the Market Renewal Program.

Since joining the IESO in 1999, Leonard has held a number of positions of increasing responsibility including Vice President, Market and System Operations (2016-17), Director, Power System Assessments (2016), Director, Market Operations (2013-15), Manager, System Operations (2011-13), and Manager, Market Forecasts and Integration (2009-10). He began his career at Ontario Hydro in 1986 designing control systems and building simulators for Ontario’s nuclear power plants.

Leonard holds a B.Sc. in mechanical engineering from the University of Calgary, master of applied science in mechanical engineering from the University of Waterloo and graduated from York University with an MBA. He is a registered professional engineer in Ontario.
Derek Lim Soo  
*CEO*
*Peak Power*

Derek Lim Soo is an energy executive with more than 18 years of business experience in the cleantech and energy sectors. He has held senior leadership roles encompassing business development, capital raise strategies, mergers and acquisitions, technology development and overall executive management. Prior to founding Peak Power, Derek was Vice President for Suzlon Energy, and the corporate and renewable sales leader for General Electric. Derek graduated from McGill University with a bachelor of engineering.

Stephen MacDonald  
*Chief Executive Officer*
*EfficiencyOne*

Stephen MacDonald is the Chief Executive Officer of EfficiencyOne, the not-for-profit operator of Canada’s first electricity efficiency utility, Efficiency Nova Scotia.

Under Steve’s leadership, EfficiencyOne continues its track record of meeting its energy savings targets under budget, with a focus on continuous improvement, innovation, and customer satisfaction. Nova Scotia’s results and innovative model has been cited by the influential International Energy Agency, and by the Pan Canadian Framework on Clean Growth and Climate Change. Steve has been recognized as one of Atlantic Canada’s Top 50 CEOs for 2019 and is a recipient of Canada’s Clean50 award; both acknowledging his industry-leading efforts promoting energy efficiency and reducing CO₂ emissions.

Steve is a relentless champion for the development and growth of the energy-efficiency industry in Nova Scotia, and the more than 1,400 people working in this field across the province.

A chartered professional accountant, Steve previously served as EfficiencyOne’s Chief Operating Officer and held senior leadership positions with a Nova Scotia Crown Corporation and Grant Thornton. Steve serves on the Maritimes Energy Association Nominations and Elections Committee and chairs the Finance Committee as a member of the Board of Directors for the YMCA of Greater Halifax/Dartmouth.

David J. McFadden, Q.C.  
*President*
*Generation Four Capital Corporation*

David McFadden is Chair of the Board of Directors of Toronto Hydro Corporation, 407 International Inc. and PCI Geomatics Inc., and a member of the board of Cricket Energy Holdings Inc.

David is Vice Chair of the Energy Transformation Network of Ontario, a member of the Advisory Board of MaRS Advanced Energy Centre and a member of the Council for Clean and Reliable Energy. He served previously as Chair of the Board of the Ontario Energy Association.

David was a partner in Gowling WLG for over 30 years where he acted for corporations, municipalities and utilities involved in the generation, distribution, transmission, marketing and financing of energy. In addition to serving on the firm’s Executive Committee and Board of Trustees, David was Chair of the firm’s Energy and Infrastructure Industry Group and International Management Committee.

*Continued*
Today’s speakers

David is on the Board of Governors of York University and chairs the Board’s Governance and Human Resources Committee. David received an honorary doctorate from York University in 2012.

He previously served as Chair of the Toronto Board of Trade and continues to serve as a member of the Board’s Audit Committee. As Chair, David launched the Board of Trade’s focus on energy and infrastructure development and renewal in the Greater Toronto Area.

David was Chair of the Board of the Ontario Centres of Excellence Inc. (2004-2010) and in that position led the creation of the Centre of Excellence for Energy which has supported energy innovation across Ontario.

David has also served as Chair of the Stakeholder’s Alliance for Electricity Competition and Customer Choice, was a member of the Canada-U.S. Electric System Working Group which investigated the blackout in August 2003, co-lead an investigation team into the 2006 nationwide blackout in Jamaica, was a member of the Ontario Ministry of Energy’s Electricity Conservation and Supply Task Force (2003-2004) and served on the Ontario Distribution Sector Review Panel (2012).

David was named Leader of the Year by the Ontario Energy Association in 2013.

The Honourable Joe Oliver, P.C.
Chair
IESO Board of Directors

Joe Oliver is the former Minister of Finance, Minister of Natural Resources, Minister Responsible for the GTA and Member of Parliament for Eglinton-Lawrence. While Finance Minister, he presented a budget that was balanced fiscally and socially, while keeping personal taxes at the lowest level in 50 years.

Joe represented Canada at G7, G20, IMF and World Bank meetings of Finance Ministers and Governors of Central Banks. He co-chaired the G20 committee responsible for generating and overseeing country plans to increase global growth by $2 trillion.

Joe served as President and CEO of the Investment Dealers Association of Canada and was the founding CEO of the Mutual Fund Dealers Association and Executive Director of the Ontario Securities Commission. Joe spent over 20 years running the investment banking operations of several Canadian investment dealers.

Joe graduated from McGill University with a BA and BCL (civil law) and from the Harvard Graduate School of Business with an MBA. He was granted an ICD.D Designation from the Institute of Corporate Directors.

Joe is Chairman of Echelon Wealth Partners, PlantEx and the Independent Review Committee of RP Strategic Income Plus Fund. He is a Director of the IESO, Firm Capital Mortgage Investment Corporation, High Arctic Energy Services and the Manning Centre.

Geoff Olynyk
Associate Partner
McKinsey and Company

Geoff is an Associate Partner with McKinsey & Company Canada, in the Toronto office. He has spent his career in the energy sector across fossil fuels, nuclear, and renewables.

Geoff grew up in Burlington, ON. He studied at Queen University with a degree in Engineering Physics from 2003–2007, with his senior thesis on fueling systems for nuclear fusion reactors. After graduation from Queen’s, Geoff launched
his career as an engineer in the Energy Technologies group at Hatch, Inc. in Mississauga where he worked on coal gasification and enhanced heavy oil recovery. Geoff then studied at MIT from 2008–2013 in the Plasma Science and Fusion Center, working on aspects of emergency shutdown systems for tokamak fusion reactors, earning a PhD in Applied Plasma Physics and Fusion Energy in 2013.

Returning to Canada after graduation, Geoff has been in the Toronto office of McKinsey since 2013, serving clients globally on energy topics. He works with electric utilities, clean energy OEMs, oil and gas players, and investor clients on growth and investment strategy, cost transformations, and capital planning, with expertise in behind-the-meter products and services including distributed energy resources and energy storage, non-wires alternatives, and nuclear power. He has a particular passion for the role of nuclear power in sustainability.

Jessica Savage

*Director, Corporate and Regulatory Affairs*

*IESO*

Jessica Savage is responsible for implementing and managing the IESO’s relationship strategy with municipalities, customers, media, sector stakeholders and the public to ensure positive and productive partnerships.

In her almost 15 years with the IESO, Jessica has held progressively senior roles within different parts of the organization, including market development, government and regulatory affairs, and operations. She counts, among her accomplishments, managing the market rule amendment process for the Renewables Integration Initiative and successfully leading the IESO’s fee applications for Ontario Energy Board approval. Her broad range of experience at the IESO means that she brings a customer-focused and enterprise-wide perspective to each role she assumes. Jessica began her career with Ontario Power Generation, working in energy markets leading up to and during the opening of the province’s electricity market.

Jessica has a Master’s degree in economics from the University of Guelph.

Ersilia Serafini

*President and CEO*

*Summerhill Group*

Ersilia Serafini has been President of Summerhill since 2009. Ersilia leads a team of over 100 individuals across Canada and focuses Summerhill’s commitment to deliver impactful, results-oriented programs that achieve measurable reductions in energy use.

At the community level, Ersilia acts as President for the Clean Economy Fund; is a former Director of the Board of Ontario’s Independent Electricity System Operator (IESO); is an active member and Regional Forum Officer for the Young Presidents Organization. She also volunteers her time with the Parent Council at St. Cecilia Catholic School and the Foundation for Prader-Willi Research Canada.

Ersilia was recently ranked #14 on the list of Top 100 Female Entrepreneurs in Canada by Profit Magazine. She was also the recipient of the Next Generation Award at the 2012 Italian Chamber of Commerce of Ontario’s Business Excellence Awards. Ersilia was named a marketing icon in the making by Strategy Magazine in September 2007. She is also a member of the Climate Project, having been trained by Al Gore.

Ersilia completed an Honours Bachelor of Science at the University of Toronto with a double major in biology and environmental science.
Sanem Sergici
Principal
The Brattle Group

Dr. Sanem Sergici is a Principal in The Brattle Group’s Boston, MA office specializing in program design, evaluation, and big data analytics in the areas of energy efficiency, demand response, smart grid and time-varying pricing. She regularly supports electric utilities, regulators, law firms, and technology firms on matters related to retail rate design, grid modernization, and utility business and regulatory models.

Dr. Sergici has been at the forefront of the design and impact analysis of innovative retail pricing, enabling technology, and behaviour-based energy efficiency pilots and programs in North America. She led numerous studies in these areas that were instrumental in regulatory approvals of advanced metering infrastructure (AMI) investments and smart rate offerings for electricity customers. She also has significant expertise in resource planning, development of load forecasting models and energy litigation.

Dr. Sergici has also led the development of a variety of traditional and emerging performance incentive metrics in the context of performance-based regulation for various U.S. utilities. During the early stages of the New York Reforming the Energy Vision (NYREV) initiative, Dr. Sergici led the development of a financial model to study the incentives required for and the impacts of incorporating large quantities of distributed energy resources (DERs) on utility earnings and rates, which has been instrumental in the development of key regulatory incentive mechanisms.

Dr. Sergici is a frequent presenter on the economic analysis of DERs and regularly publishes in academic and industry journals. She received her PhD in Applied Economics from Northeastern University in the fields of applied econometrics and industrial organization. She received her MA in economics from Northeastern University, and her BS in economics from Middle East Technical University (METU) in Ankara, Turkey.

Katherine Sparkes
Director, Innovation, Research and Development
IESO

Katherine Sparkes is Director of the IESO’s Innovation, Research and Development team, and is responsible for driving initiatives in support of grid modernization and the removal of barriers to private sector investment in solutions that support the reliability, adequacy and affordability of Ontario’s electricity supply.

Her team works with partners across the energy sector and beyond to understand emerging technologies, services, practices and policies that will help meet Ontario’s current and future electricity needs. Katherine previously held various leadership roles in conservation and demand management (CDM), leading the design of award-winning CDM programs.

An urban planner by training, Katherine has worked in the consulting and not-for-profit sectors and taught at the Energy & Infrastructure Program at Osgoode Hall Law School.
Kathleen Spees  
*Principal  
The Brattle Group*  
Dr. Kathleen Spees is a Principal at The Brattle Group with expertise in wholesale electricity and environmental policy design and analysis. Her work for market operators, regulators, regulated utilities, and market participants focuses on: energy, capacity, and ancillary service market design; the design of carbon and environmental policies; valuation of traditional and emerging technology assets; and strategic planning in the face of industry disruption.

Dr. Spees has worked in more than a dozen international jurisdictions supporting the design and enhancement of environmental policies and wholesale power markets in decarbonizing electricity systems. She has supported the IESO since 2014 in a number of market design efforts and modeling analyses of the Ontario electricity system.

Dr. Spees earned her PhD in engineering and public policy within the Carnegie Mellon Electricity Industry Center in 2008 and her MS in electrical and computer engineering from Carnegie Mellon University in 2007. She earned her BS in physics and mechanical engineering from Iowa State University in 2005.

Annette Verschuren  
*Chair and CEO  
NRStor Inc.*  
Annette Verschuren is Chair and CEO of NRStor Inc, which develops and manages energy storage projects.

Prior to this, Ms. Verschuren was president of The Home Depot Canada. She oversaw the growth of the company’s Canadian operations from 19 to 179 stores from 1996-2011, increased revenue from $600 million to $6 billion.

After Home Depot, she took a year off and went around the world. In her travels, she saw energy as a global issue with enormous business potential. Back in Canada, Ms. Verschuren founded NRStor in 2012 with an investment from Northwater Capital.

Her career began at the Cape Breton Development Corporation, a coal mining company. She then worked with Canada Development Investment Corporation to help privatize Crown corporations. Her next stop was in corporate development at Imasco Ltd., one of Canada’s largest holding companies. Ms. Verschuren then started Michaels of Canada, a chain of arts and crafts stores.

Ms. Verschuren has been appointed to numerous government advisory roles. Among them: Economic Advisory Council, during the economic crisis in 2008, the Canada-U.S. Council for Advancement of Women Entrepreneurs and Business Leaders; and recently the Advisory Council for NAFTA.

Ms. Verschuren sits on the corporate boards of Liberty Mutual, CNRL Air Canada and Saputo and also serves on the board of the CAMH Foundation, and Chairs the MaRS Discovery District Board. Ms. Verschuren is the Chancellor of Cape Breton University and is an executive advisor there to the Verschuren Centre for Sustainability in Energy and the Environment.

Ms. Verschuren has received eight honorary doctorates from Canadian universities including her alma mater, St. Frances Xavier University. She is a supporter of Venture for Canada, Teach for Canada, Junior Achievement, Habitat for Humanity, and the Rick Hansen Foundation.

Ms. Verschuren wrote the book Bet On Me, about succeeding in business and in life. She is a member of both the Nova Scotia and the Cape Breton Business Halls of Fame. She champions volunteerism and was named to the Order of Canada for her contributions to the retail industry and corporate social responsibility.
Today’s speakers

Christy Walsh

*Director, Division of Policy Development in the Office of Energy Policy and Innovation*

**Federal Energy Regulatory Commission**

Christy Walsh is Director of the Division of Policy Development in FERC’s Office of Energy Policy and Innovation. In her current role, she focuses on issues involving the capacity markets, transmission planning and cost allocation, gas-electric coordination, removing barriers to ensure access to the market and grid by all resources such as energy storage and distributed energy resources, and coordination between wholesale and retail electric markets.

Ms. Walsh has held several other positions at the Commission, including Deputy General Counsel and Special Counsel in the Office of General Counsel, Legal and Policy Advisor to Chairman Jon Wellinghoff, and attorney-advisor and senior attorney in the Office of General Counsel. She holds a J.D. from the University of Texas School of Law and a BM and BA from Texas Tech University.

Terry Young

*Vice President, Policy, Engagement and Innovation*

**IESO**

As Vice President of Policy, Engagement and Innovation, Terry Young is responsible for developing and aligning IESO policy to reflect the broader objectives of the organization and Ontario’s electricity sector, including the need to foster innovation.

Terry’s responsibilities include stakeholder and community engagement, communications, regulatory affairs, Indigenous relations, conservation, and other programs necessary for the implementation of effective energy policy.

A well-known spokesperson with 30 years of experience in the electricity industry, Terry started his career as a journalist with Canadian Press-Broadcast News. He also served as President, Ontario Branch of the Kidney Foundation of Canada.

Terry has been with the IESO since 2002.
The conversation doesn’t end today

The IESO looks to customers, communities and stakeholders to provide input, feedback, advice and guidance on issues, projects and strategies that impact the way our industry evolves and grows.

Please consider joining a committee, working group or engagement initiative that needs your voice.

For more information, contact engagement@ieso.ca.

Additional resources

Visit www.ieso.ca/summit to access the content below.

Innovation Roadmap

Removing Obstacles for Storage Resources in Ontario

Energy Transformation Network of Ontario – Structural options for Ontario’s electricity system in a high DER future: potential implications for reliability, affordability, competition and consumer choice

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