

Energy Efficiency in Ontario

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November 14, 2018



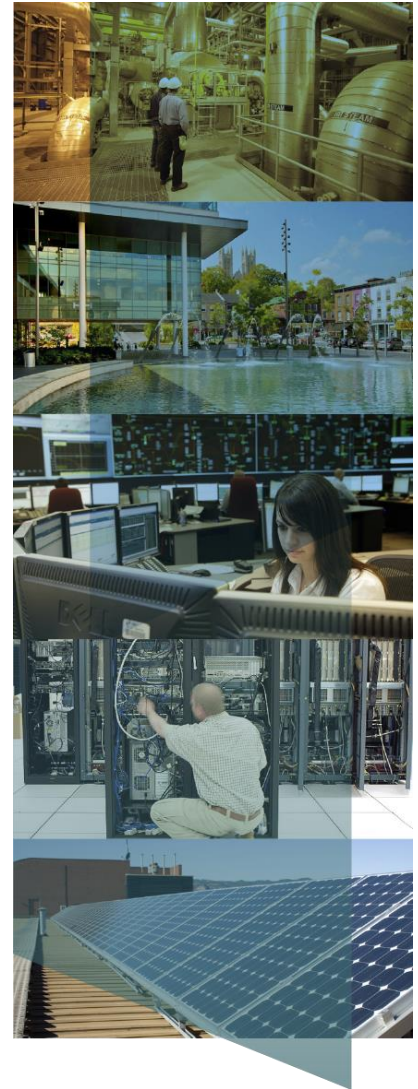
Today's Agenda

- Ontario's electricity sector
 - Who is the IESO?
- Ontario's energy efficiency landscape
 - 2015-2020 targets
 - Achievements
- Save on Energy incentive program
 - Overview
 - Business impact
 - Training & support for customers and supply chain

Who we are and what we do

The Independent Electricity System Operator (IESO) works at the heart of Ontario's power system – ensuring there is enough power to meet the province's energy needs in real time while also planning and securing energy for the future. It does this by:

- Planning
- Enabling energy efficiency
- Ensuring supply
- Operating the grid
- Engaging stakeholders and communities



Electricity sector players



Ontario

Ministry of
Energy,
Northern
Development and
Mines

Determines the province's energy policy. Working to develop a safe, reliable and affordable energy supply.



Ontario Energy Board
Commission de l'énergie de l'Ontario

Regulates the province's electricity sector



Generators

Generates electricity for Ontario from nuclear, hydroelectric, gas, wind, solar and bioenergy plants, including non-utility generators



Transmitters

Delivers power across the province to local distribution companies and industrial consumers

Local Distribution Companies

Distributes power from transmitters to homes and businesses. There are ~70 local distribution companies in Ontario.



Ensures the reliability of the province's electricity system on behalf of all Ontarians

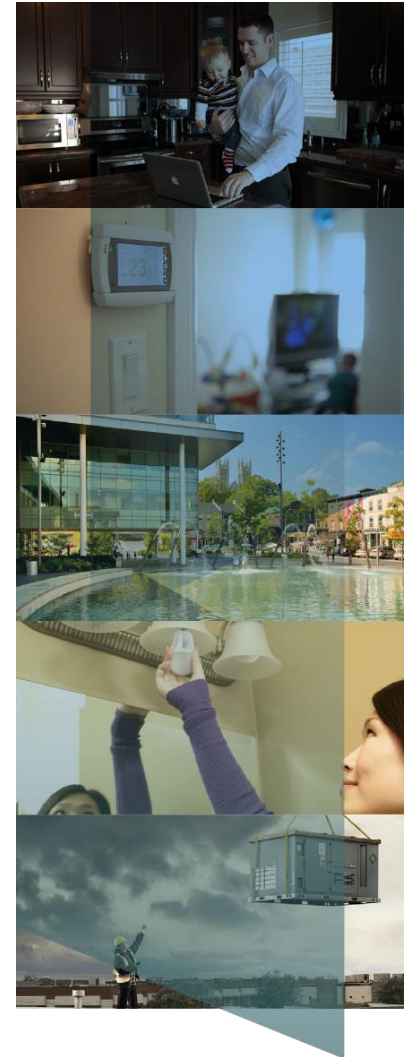


Ontario's system at a glance

Installed Capacity	37,044 MW
Record Summer Peak (August 1, 2006)	27,005 MW
Record Winter Peak (December 20, 2004)	24,979 MW
Grid Energy Consumed (2017)	132.1 TWh
Customers	~ 5 million
Transmission Lines	30,000 km
Planning Regions	21
Import / Export Capability	6,500 /6,100 MW
Interconnections	New York, Quebec, Manitoba, Michigan, Minnesota

Putting energy efficiency first

- Energy efficiency provides the **cleanest and most cost-effective** alternative to building new generation
- Energy efficiency also lowers peak demand, allowing the IESO to defer or avoid the need to build new infrastructure
- The IESO aims to reduce electricity consumption by 8.7 TWh by end of 2020 – **the equivalent of powering Mississauga and Sudbury for a year**
- Energy efficiency contributes to Ontario's long-term planning
- **Save on Energy** initiatives offer incentives and programs for residential and business customers



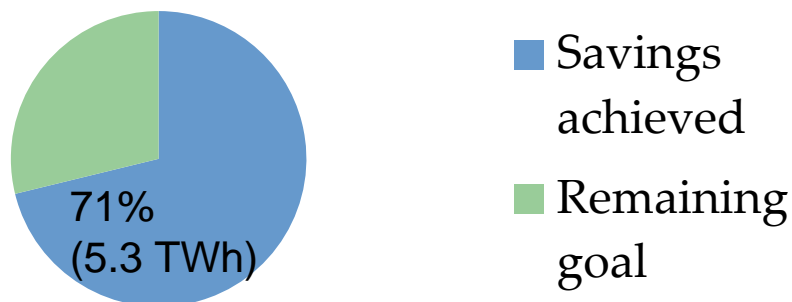
Current status

- The current suite of programs and incentives is focused on:
 - Making **province-wide programs** available for delivery
 - Promoting **participation** from all customer segments
 - Implementing **cost-effective** energy-efficiency plans
 - Aligning programs with **local needs**
 - Streamlining **approvals** and administrative requirements
 - Encouraging **innovation**
 - Collaborating with **regional** and natural gas utilities

Energy efficiency achievements

- 2017 was the best performing year on record
- Energy efficiency programs on track to meet the 7.4 TWh 2020 target:

Savings as of Q2 2018 (prelim)



- 30% of the 1.3 TWh *Industrial Accelerator Program* target has been achieved, with an additional 684 GWh under contract (Q2 2018)
- Ontario has saved **15.4 TWh** of electricity since 2006
 - Equivalent to powering 1.7 million homes for 1 year

Save on Energy has programs, rebates and resources to help you:

- ✓ SAVE MONEY
- ✓ SAVE ENERGY
- ✓ STAY COMFORTABLE



For Homes

- Heating and Cooling Program
- Home Assistance Program
- Deal Days

For Business

- Audit Funding program
- Energy Manager Program
- Energy Performance Program
- Engineering Feasibility Study
- Existing Building Commissioning
- High Performance New Construction
- Monitoring and Targeting
- Opportunity Accelerator
- Project Incentives
- Residential New Construction program
- Retrofit

Why Save on Energy?

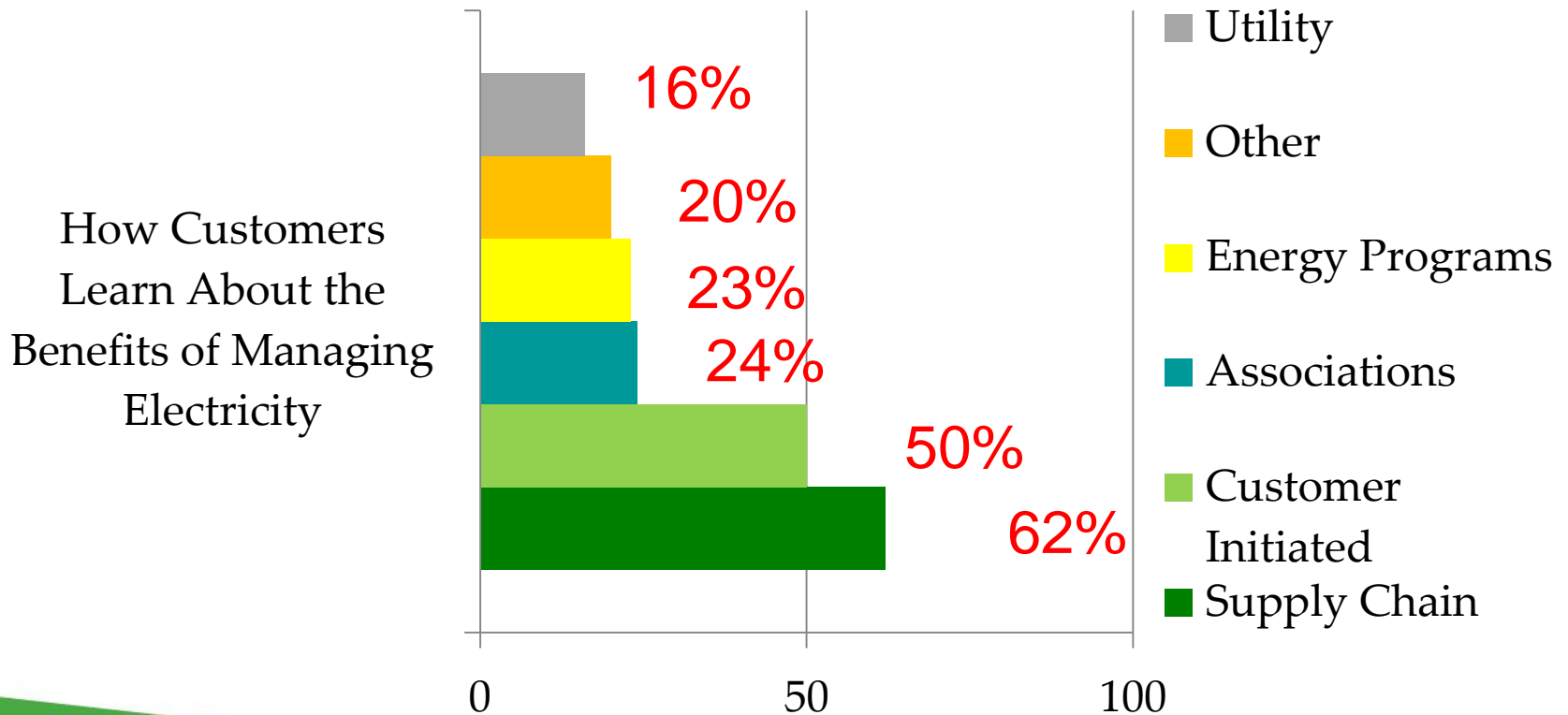
- Programs not only provide energy and cost savings:
 - Reduce O&M costs
 - Increase reliability
 - Reduce environmental impact
 - Increase comfort
 - Increase competitiveness

Save on Energy's business impact

- Completes customer projects that otherwise would not have moved ahead
- Produces savings that can be invested in other areas of business
- Creates jobs
 - Staff
 - Subcontractors

Supply Chain: Leverage Save on Energy to enhance business for you and your customers

- Trade professionals are an essential source of information for business customers
 - More than half of customers indicate that they learn about the benefits of managing electricity from the supply chain network



How to get started with Save on Energy

- **Contact your local distribution company**
- Attend Save on Energy events sponsored by LDCs
- Learn more online:
 - www.saveonenergy.ca
 - LinkedIn: www.linkedin.com/company/saveonenergy-ontario
 - Twitter: [@SaveonEnergyOnt](https://twitter.com/SaveonEnergyOnt)

Build capability to generate more savings

WHAT

+

HOW

=

MAXIMIZED SAVINGS



Training preserves and increases your energy-efficiency savings

Training incentives that generate savings



*Incentives capped to a maximum and subject to eligibility.

A new training portfolio for channels & customers

New

Professional

Certified Energy Manager

Certified M&V Professional

Commissioning Professional Certification

Bldg Operator Certification

Certified Energy Auditor

Specialized

RETScreen Expert Software

Adv Bldg Recommissioning)

Energy Efficiency Sales

Advanced Technology Training

Custom Training

Foundational

Dollars to \$ense

Spot the Savings

Energy Mgmt Plans

Monitoring & Targeting

Energy Mgmt Info Systems

Building Recommissioning

Energy Efficiency Financing

Build capability, generate savings

TRAINING AND SUPPORT (draft)



GAIN A COMPETITIVE ADVANTAGE WITH ENERGY MANAGEMENT TRAINING

Get the skills and expertise you need to build an energy strategy for your business.

Save on Energy provides financial incentives for a variety of energy management training courses, for energy management beginners to those seeking advanced certification. Invest the energy future of your business today.

SAVE ON ENERGY
POWER WHAT'S NEXT

LDC LOGO

SAVE ON ENERGY
POWER WHAT'S NEXT

TRAINING AND SUPPORT INCENTIVE APPLICATION FORM

Submit to efficiency.training@ieso.ca

Section 1: APPLICATION INSTRUCTIONS

Please ensure that this Application is:

- completed by the Applicant in full with all applicable details
- signed by both the Applicant and all Participants
- submitted with all supporting documentation attached

Incomplete Applications will not be considered or processed.

Section 2: APPLICANT INFORMATION (incentive will be paid to the Applicant ONLY)

The Incentive is available to an organization/employer (the "Applicant") that sends qualifying full-time employees to a training Initiative.

Legal Name of Applicant (Organization/Employer of Participant(s)) _____ Title _____ Prov _____ Postal Code _____

Applicant Representative Name _____ City _____

Address _____ Email _____ Date _____

Phone _____

Applicant Representative Signature* (E-signature acceptable) _____

By checking this box, the Applicant (Organization/Employer) confirms that any and all Participants were employed by the Applicant at time of Initiative participation, and continue to be full-time employees as of the date written above.

Section 3: PARTICIPANT INFORMATION

If more than one Participant attends a selected initiative, please complete the **Multiple Participant Form**

Participant Name _____ City _____ Title _____ Postal Code _____

Address _____

Phone _____ Email _____ Date _____

Participant Signature* (E-signature acceptable) _____

*By signing and submitting this Application, the Applicant and Participant(s) each certify that all information contained herein is true, complete and accurate as stated in this Application and as of the date written above. The Applicant and Participant agree to be bound by the terms and conditions of the attached Training and Support Incentive Agreement. The Applicant further agrees that the IESO may, in its sole discretion, request the Applicant for any evidence in support of the Application for any reason, or request further evidence or verification, or contact any person to verify that the information stated in the Application is correct.

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Powering Tomorrow.

MEASUREMENT AND VERIFICATION: GETTING FROM PROPOSAL TO MOST SAVING

Questions and contact information

efficiency.training@ieso.ca

Training and Support:

saveonenergy.ca/For-Business-and-Industry/Training-and-support

Learn how leveraging Save on Energy can help take your business to the next level



For Contractors & Allies

Getting Started with Save on Energy

Training and Support

News and Updates

Programs and Technologies

Knowledge Centre

Getting started with Save on Energy

You and your customers share the same goal – to grow your business. As a contractor, distributor, consultant or other trade professional, you already offer expertise and quality service to your customers. With help from Save on Energy incentives, you can deliver even more value and strengthen your business too.

Go further and help your customers receive incentives for energy-efficient solutions, so they can save energy and money to invest back into their business.

Which Save on Energy incentive programs are available for my customers?

saveonenergy.ca/Allies



Supply chain support and services



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Knowledge Centre

News and updates

Keep on top of the latest energy industry news and get program updates from Save on Energy. [Sign up for our newsletter.](#)

Program News

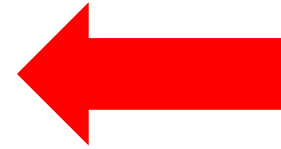
September 13, 2018

Save on Energy Website – Change to iCon log-in URL

The URL for the Retrofit application iCon log-in will be moved to retrofitportal.ca on **September 27, 2018**. Please bookmark this link, but note that it will also be accessible from the Retrofit program web page.

Supply chain support and services

saveonenergy.ca/**AlliesNews**



Sign up for the Trade Allies quarterly newsletter

For contractors, distributors, consultants and other trade professionals: Stay up to date on Save on Energy programs, energy-efficient technologies, ways to grow your business, and more.

* Email

First Name

Last Name

Submit

You are giving your consent to the IESO, 120 Adelaide Street West, Suite 1600, Toronto, Ontario M5H 1T1. You can withdraw your consent at any time. Please refer to our [Privacy Policy](#) for more details.



Questions and contact information

kimberly.krieber@ieso.ca

Contractors & Trade Allies Info:
saveonenergy.ca/Allies

Remember: Leveraging Save on Energy can help take your business to the next level

- Programs not only provide energy and cost savings:
 - Reduce O&M costs
 - Increase reliability
 - Reduce environmental impact
 - Increase comfort
 - Increase competitiveness

Visit saveonenergy.ca

IESO resources – keep in touch

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