



Powering progress

unlock local incentives

Ottawa Retrofit
Accelerator

SAVE  ENERGY™



Welcome and Introduction



Kelly Saunders

Energy Conservation Advisor



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Energy Conservation Advisor



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Supervisor, Energy and
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Your local energy advisors

Our energy advisors make saving energy simple.

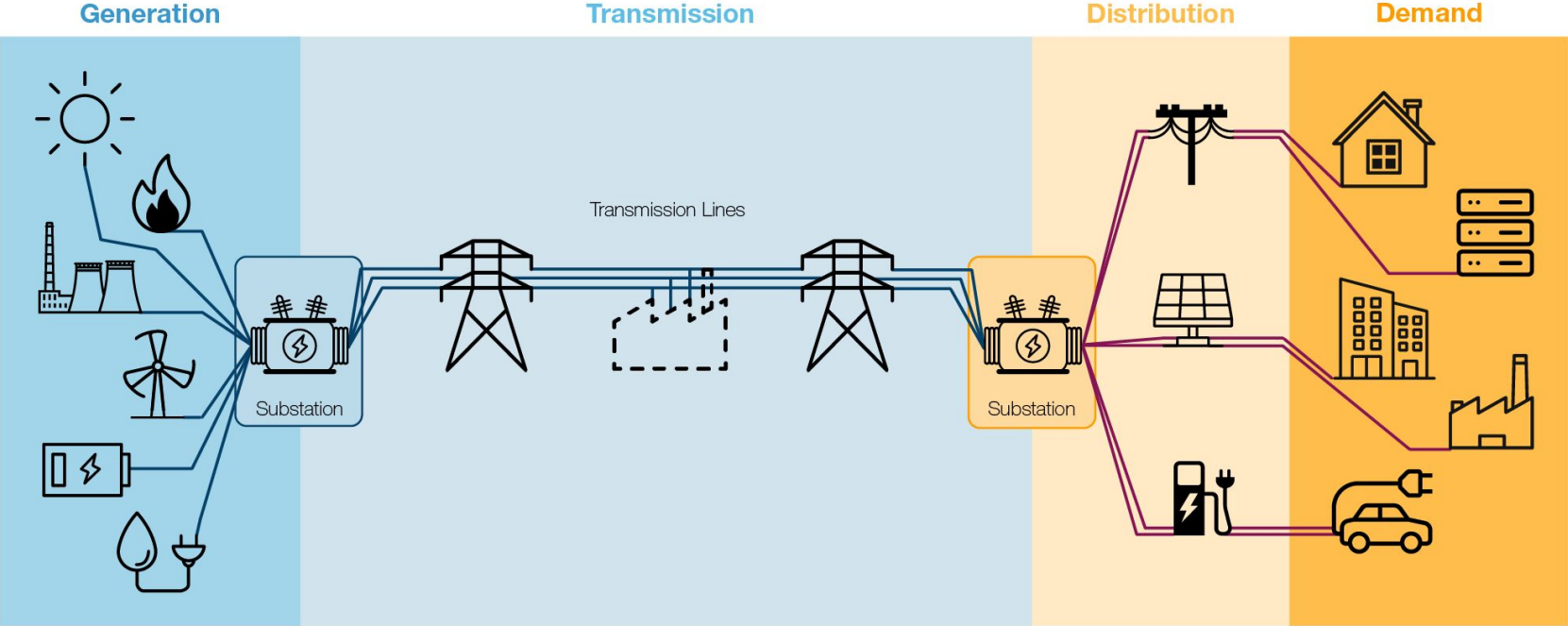
We're your point of first contact for **Save on Energy** incentives, the **Ottawa Retrofit Accelerator**, and other programs that help reduce costs and emissions.

We can help you:

- **Identify** opportunities to save energy
- **Connect** you to rebates and incentives
- **Guide** you through the application process
- **Support** you every step of the way



Electricity grid

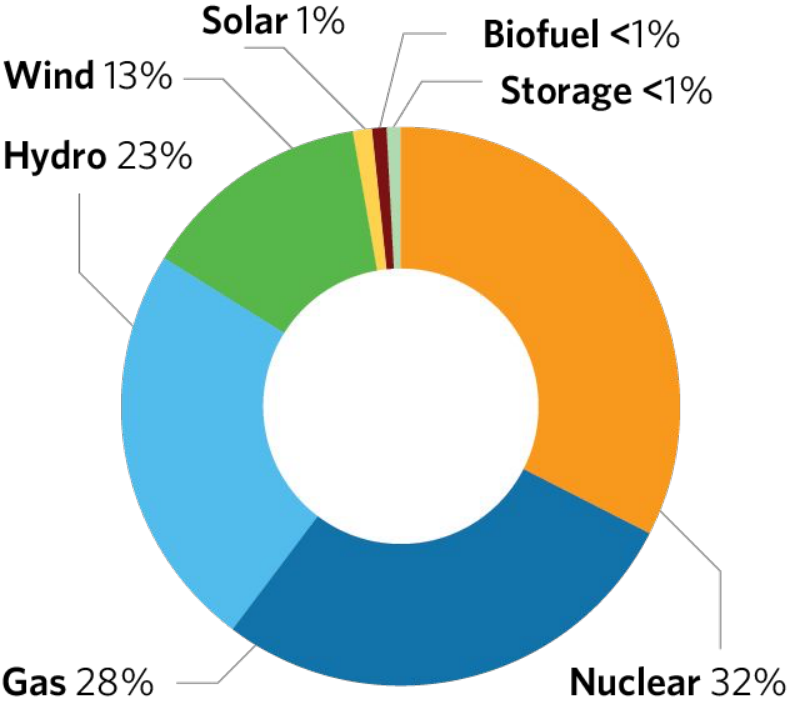


Provincial electricity rates are governed by the Ontario Energy Board (OEB)



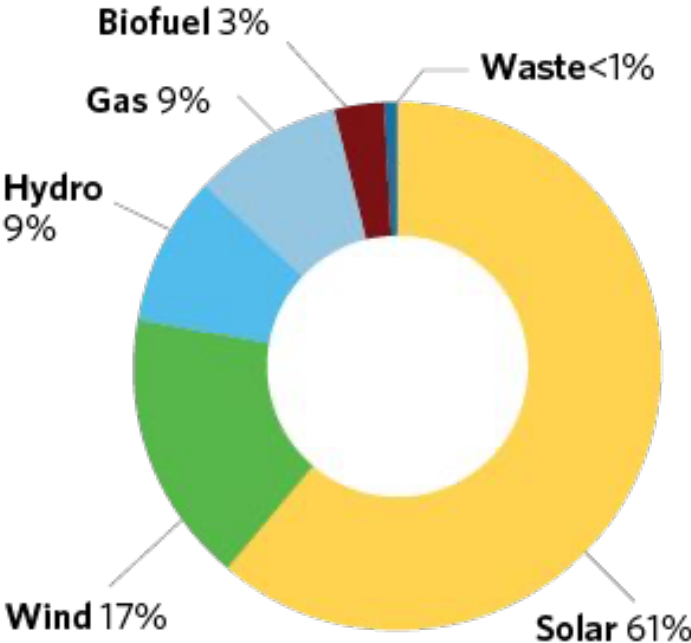
How is electricity
generated in Ontario?

Provincial generation



Nuclear	12,184 MW or 32%
Gas/Oil	10,551 MW or 28%
Hydro	8,866 MW or 23%
Wind	4,943 MW or 13%
Solar	478 MW or 1%
Biofuel	287 MW or <1%
Storage	451 MW or <1%

Local generation (all utilities)

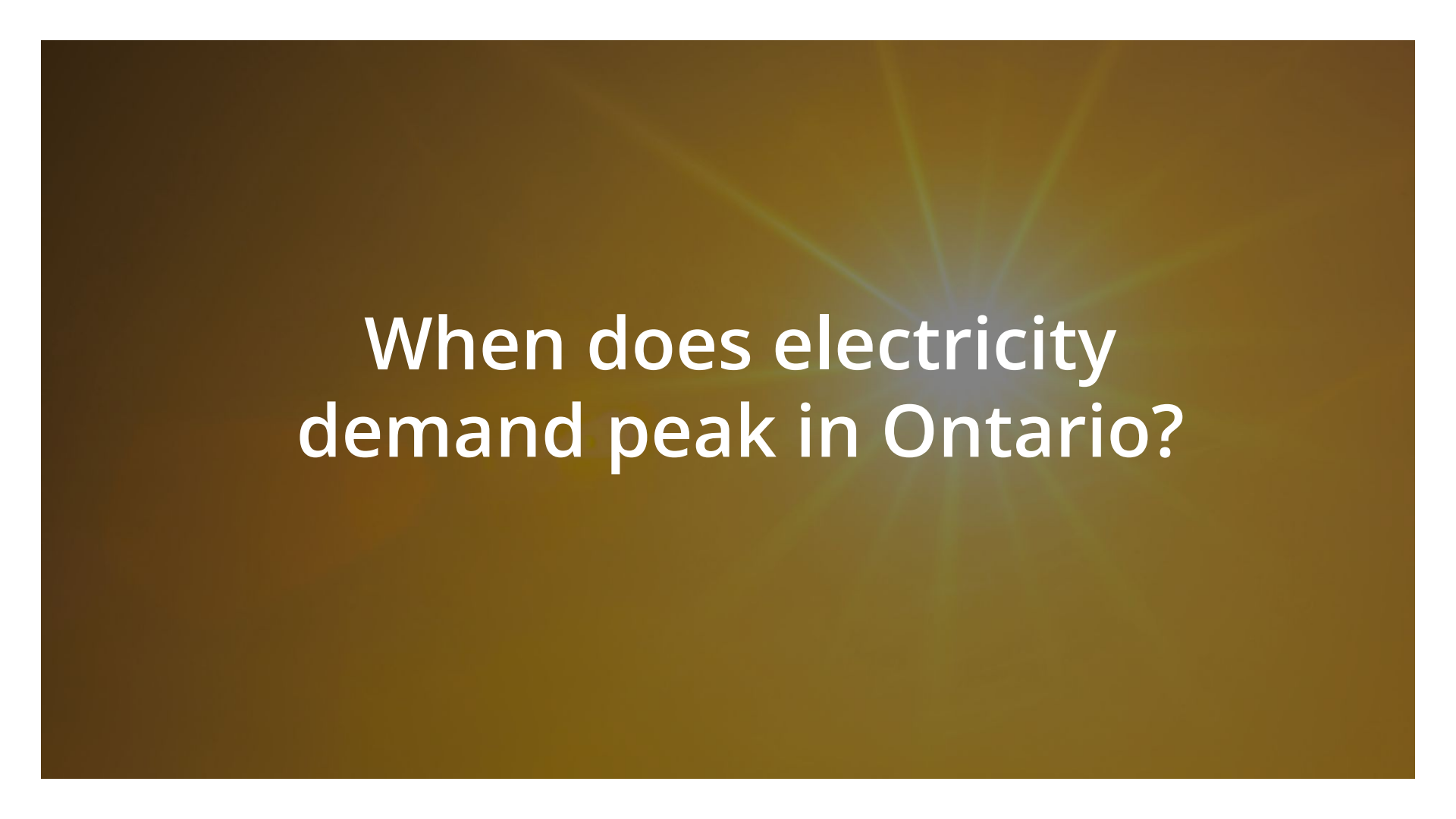


Solar	2,171 MW or 61%
Wind	591 MW or 17%
Hydro	333 MW or 9%
Gas	320 MW or 9%
Biofuel	110 MW or 3%
Waste	24 MW or <1%



What are the biggest
drivers of commercial
electricity use?

Source	Annual %
Space heating (electric)	40 - 60%
Lighting	20 - 30%
Other (water heating, machinery, A/C, etc.)	10 - 40%



When does electricity
demand peak in Ontario?

Summer

4 to 6 p.m. on weekdays

Demand spikes are expensive

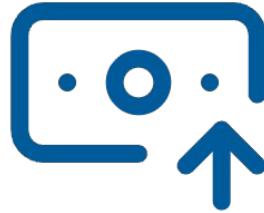


- Grid supports the base load
- Peaker plants can be required
- Expensive to operate

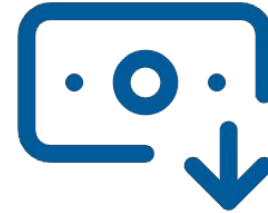
Energy demand is increasing



Demand



Generation \$\$\$



Conservation \$

About Save on Energy



- ✓ Managed by the Independent Electricity System Operator (IESO)
- ✓ Suite of incentive programs for energy conservation
- ✓ Supported by Hydro Ottawa in 2025 and beyond

Financial benefits of energy conservation



- ✓ Lower energy bills
- ✓ Incentives & rebates
- ✓ Increase building value
- ✓ Improve productivity
- ✓ Less maintenance
- ✓ Risk mitigation

Other benefits of energy conservation



- ✓ Air quality
- ✓ Comfort
- ✓ Curb appeal
- ✓ Brand value
- ✓ Environmental

Recycling analogy for energy conservation



Reduce

Behaviour, controls

Reuse

Heat recovery from water/air

Replace

Lighting, HVAC, equipment, machinery

A man with a beard, wearing a white hard hat and a green safety vest over a green shirt, is smiling at the camera. He is standing on a construction site with a blurred background showing another person and a yellow light.

Save on Energy incentives

SAVE_{ON}
ENERGY[™]

Business programs

We can help with a full range of **Save on Energy** programs for businesses of all sizes:

- BizEnergySaver
- Instant Discounts
- Retrofit Program
- Existing Building Commissioning (EBCx)
- Energy Performance Program (EPP)
- Expanded Energy Management Program
- XLerate Program
- Small Business Program
- Other: Training



Lighting



Bulbs



Fixtures



Controls
Schedules



Controls
Motion sensors

Incentives cover up to 100 per cent of total project costs

Heating & cooling



Space heating

Heat pump,
Rooftop Air Unit,
etc.



Air conditioning



Controls

Variable frequency
drives
Schedules



Controls

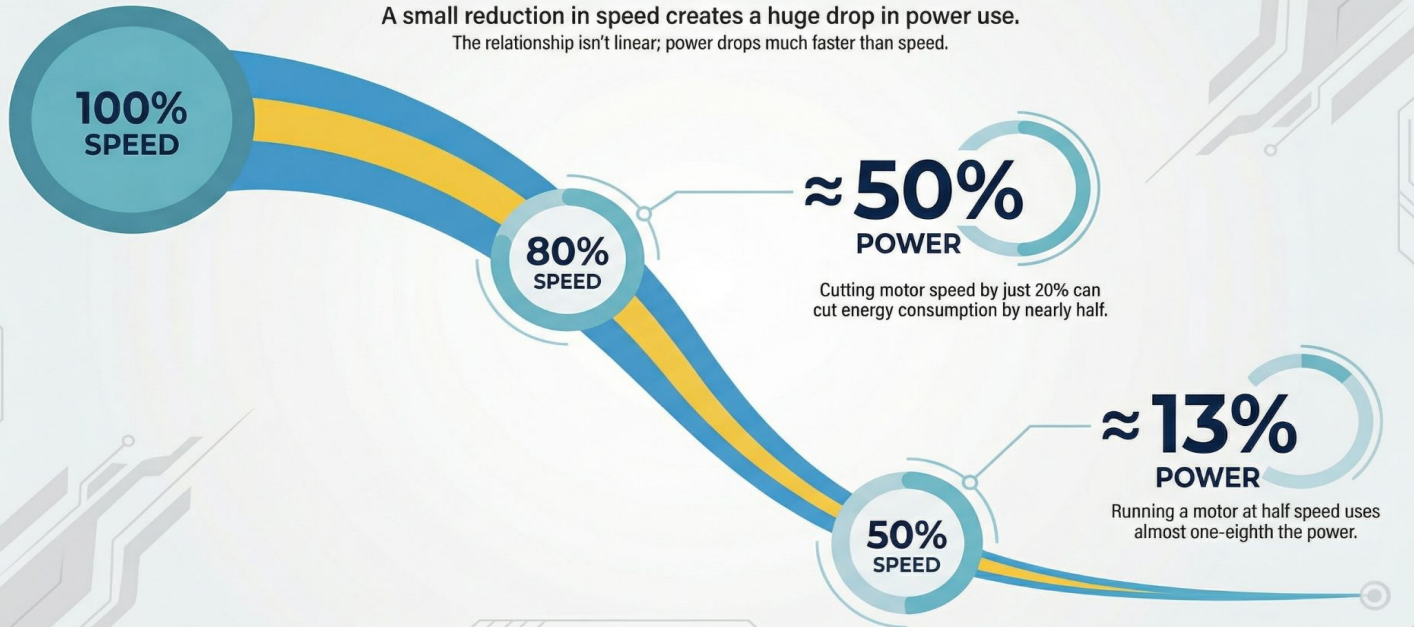
Motion sensors

Incentives cover up to 50 per cent of project costs

Variable frequency drives (VFDs)

'Small Speed Drop, Big Energy Savings'

A small reduction in speed creates a huge drop in power use.
The relationship isn't linear; power drops much faster than speed.



≈ 50%
POWER

Cutting motor speed by just 20% can cut energy consumption by nearly half.

≈ 13%
POWER

Running a motor at half speed uses almost one-eighth the power.

Solar incentive



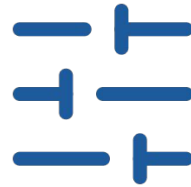
- ✓ Save on project costs
- ✓ Ideal for clients having all year round baseload
- ✓ Load displacement only

Incentives cover up to 50 per cent of project costs

Other incentives



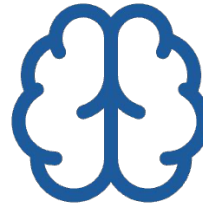
Energy managers



**Recommissioning
retrocommissioning**

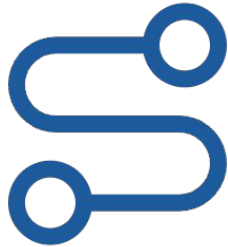


**Pay for
performance**



Training

We're here to support your journey



1. Information gathering
2. Assessment
3. Planning
4. Implementation
5. Measurement

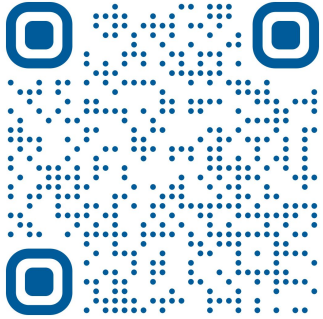
Application strategy



1. **Contact us**
2. Funding may be limited → apply ASAP
3. Have an internal champion to collect information
4. Leverage vendors as application representatives
5. Do not commit before you submit → costs, POs, contracts
6. Reimbursement happens when application is closed

Next steps

1. Book a free consultation
2. Send us an email
3. We can present to each BIA virtually or in-person upon request





Customer discussion

Turning energy and carbon goals into results

Ottawa Retrofit
Accelerator





Let's keep talking

Book a consultation with our experts

hydroottawa.com/support · cdm@hydroottawa.com · 613-738-5474

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