JUNE 19, 2025

Expanded Energy Management Program

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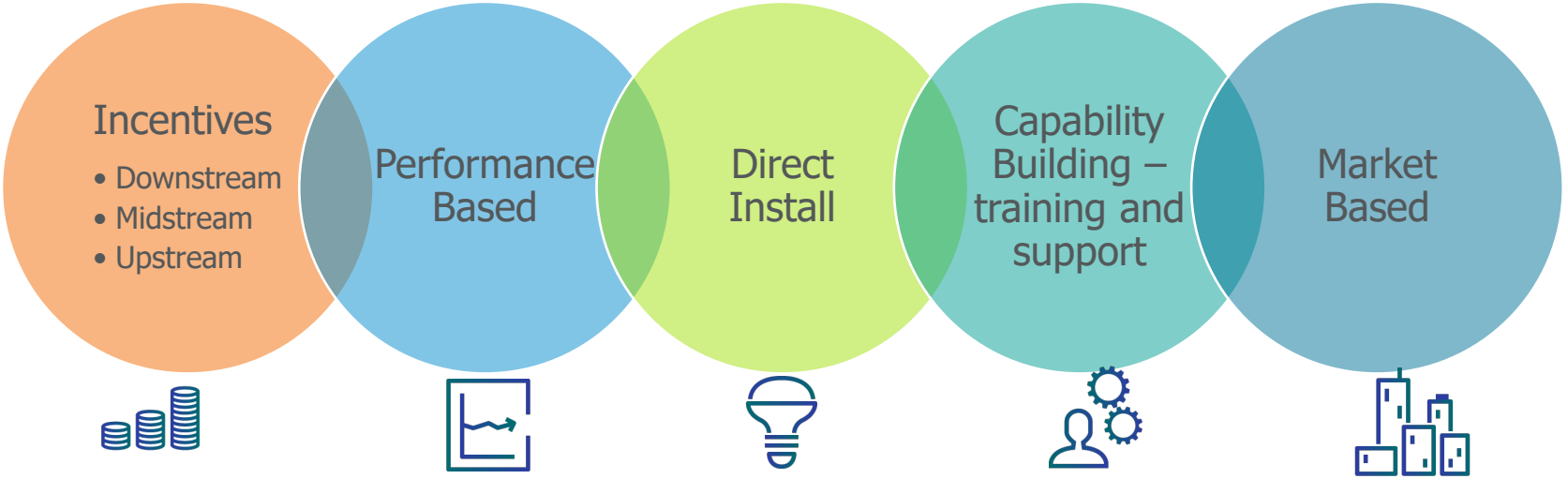
Save on Energy Program Implementation Approaches



Incentives	Performance Based	Direct Install	Capability Building – training and support	Market Based
• Retrofit • EBCx • Instant Discounts • Peak Perks • Remote First Nations Energy Efficiency Program • First Nations Community Building Retrofit Program	• Energy Performance Program • Expanded Energy Management Program	• Small Business Program • Energy Affordability Program	• Training and Support	• Local Initiatives Program • Energy Efficiency Auction Pilot • Industrial Energy Efficiency Program

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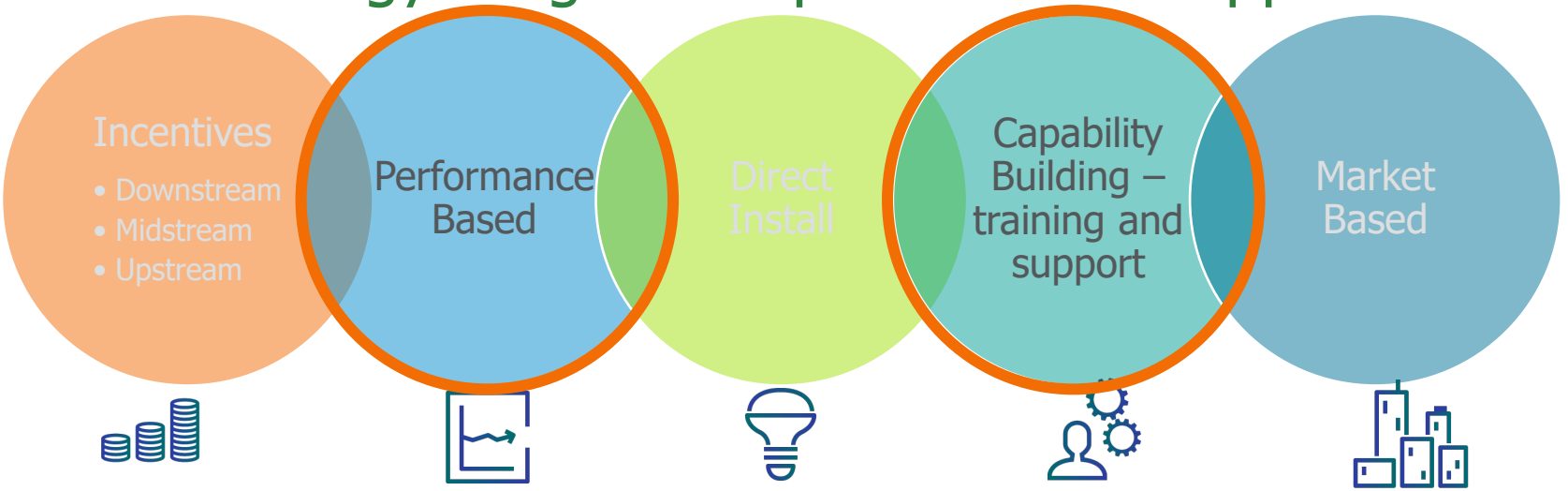

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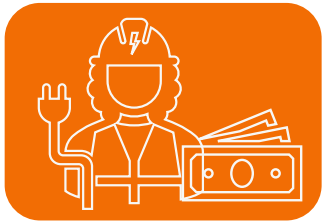
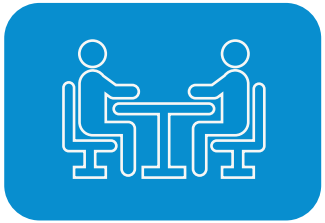
Expanded Energy Management Program

Commercial and Institutional Facilities



Energy Manager



Strategic Energy Management Learning

Industrial Facilities

EMIS

Energy practitioners training

Energy Manager Support

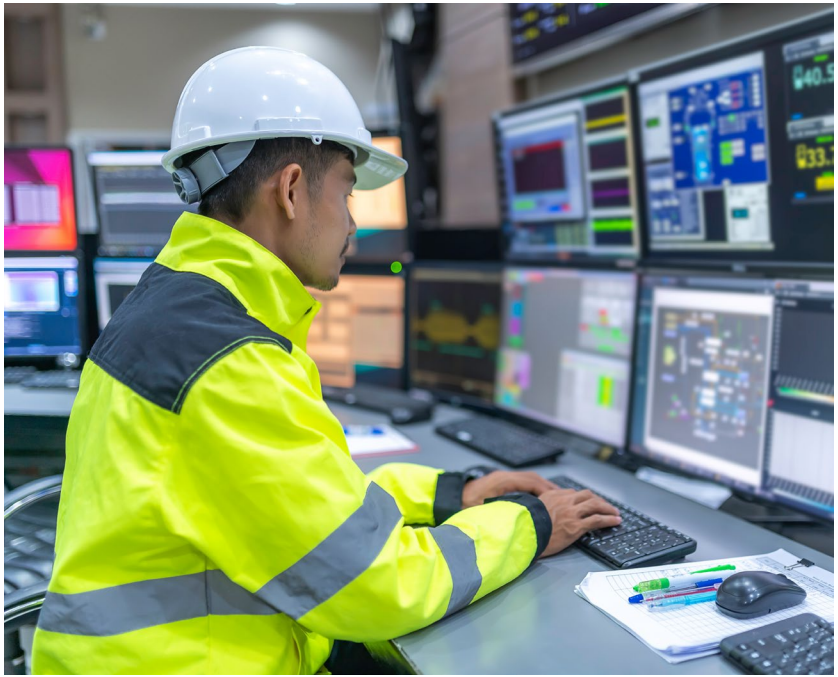
The initiative supports hiring and retaining of certified energy managers. Energy managers identify energy saving opportunities, build an energy-savings culture, and implement energy management systems.

- Funding limit: up to **$100,000** per facility per year
- Until **June 30th, 2025, industrial** facilities who join the program will be eligible to apply the Energy Manager funding to an existing employee, without the requirement of an incremental hire.
- This offering has been provided to support industrial organizations mitigate the impact of US tariffs on their energy management activities.

Strategic Energy Management (SEM) Overview

- Develop and energy & GHG emissions management through a combination of education, coaching, peer-to-peer knowledge sharing & technical support
- Current SOE SEM curriculum has been expanded to include savings from all fuel sources
- Performance incentives up to $100,000 per year, and earned enabling incentives up to $5000

Energy Management Information Systems (EMIS)



- Industrial facilities with an annual baseline energy consumption of less than or equal to 400,000 GJ are eligible to receive $50,000
- Industrial facilities with an annual baseline energy consumption of greater than 400,000 GJ are eligible to receive $250,000, up to 50% of the eligible project costs, for the installation of an EMIS.

How to participate?

- Register your organization: saveonenergy.ca/EEM
- Contact us at SEM@ieso.ca

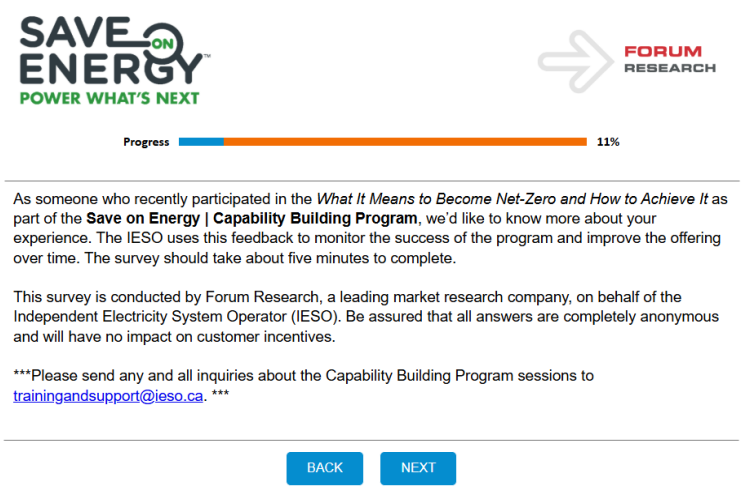
Once you have contacted us, a knowledgeable energy coach will schedule a free assessment call with you to discuss how the program can meet your specific needs.

19 JUNE 2025

Sustaining energy management information system (EMIS) operational savings

Jay Mullin
Energy management coach

Upcoming survey: we want your feedback!



- Check your email! A survey is coming your way soon
- Why? Help us improve our training programs
- Who? Conducted by Forum Research on behalf of the IESO
- Time? Takes only five minutes to complete
- Confidentiality: your responses are anonymous and will not impact participation or incentives

The survey will be sent from:
surveyinfo@forumresearch.com

By the end of this workshop, you will be able to:

- Understand how performance drift occurs
- Identify common failure points
- Develop a strategy to sustain operational savings

Follow along in the Participant Workbook!

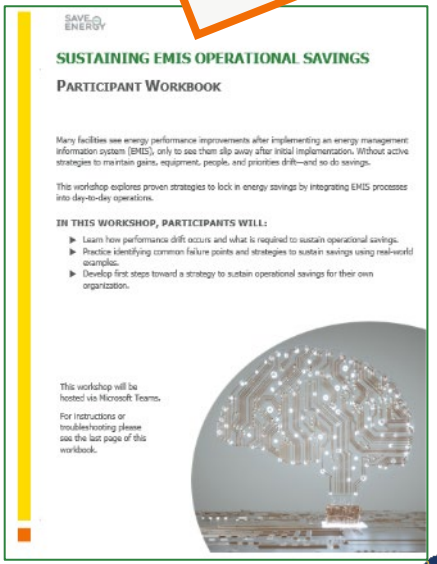
1

Have the workbook open or printed out

Watch for this icon to help follow along

Where to find the workbook:

- Click the link in the chat
- Download a copy to your computer
- Open and follow along


SAVE ON ENERGY

SUSTAINING EMIS OPERATIONAL SAVINGS

PARTICIPANT WORKBOOK

Many facilities see energy performance improvements after implementing an energy management information system (EMIS), only to see them slip away after initial implementation. Without active strategies to maintain gains, equipment, people, and priorities drift—and so do savings.

This workshop explores proven strategies to lock in energy savings by integrating EMIS processes into day-to-day operations.

IN THIS WORKSHOP, PARTICIPANTS WILL:

- Learn how performance drift occurs and what is required to sustain operational savings.
- Practice identifying common failure points and strategies to sustain savings using real-world examples.
- Develop first steps toward a strategy to sustain operational savings for their own organization.

This workshop will be hosted via Microsoft Teams.

For instructions or troubleshooting please see the last page of this workbook.

Why operational savings degrade

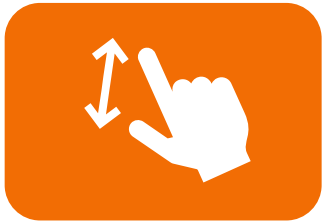
The problem: short-lived energy savings

An energy management information system (EMIS) can be an excellent tool to save energy, optimize energy performance and achieve other benefits.

BUT

- Initial efficiency gains are often lost within six to 18 months
- Even after EMIS installation, savings degradation is common
- Root causes are usually operational, not technical

Common causes of savings degradation



Operator overrides

EMIS alarms

Lack of integration

Staff turnover

Case study: compressed air system regression

1

A mid-sized manufacturing plant implemented an EMIS to monitor equipment, including a compressed air system, to track energy consumption, system pressure and compressed air demand. The EMIS helped the energy team identify several improvement opportunities:

- Repairing leaks throughout the plant
- Reducing overall system pressure
- Implementing automated shutdown procedures for nights and weekends

Case study: compressed air system regression (Cont'd)

Within one month

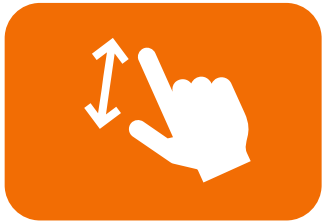
- These measures resulted in an immediate **8% reduction in energy** use for the compressed air system

8 months later

- When the energy manager reviewed the EMIS data, they noticed a significant backslide
- The system was now only showing a 2% energy reduction
- **Most of the original savings had been lost**

Case study: what might have gone wrong?

2



Operator overrides

EMIS alarms

Lack of integration

Staff turnover

Savings degradation risk factors

Retooling or operational changes

Shift changes/ staff turnover

Lack of training

No proper documentation

No ownership

Case study: North Found Metals

- Medium-sized die casting facility with stable operations
- Has implemented an EMIS and have achieved 7% energy reduction
- Energy manager has been the driving force
- Restricted EMIS access to minimize training requirements and forego documentation development in favour of quick action
- List of alarms sent daily to managers and team leads
- Some teams conduct weekly reviews of EMIS data, but inconsistent

Case study: North Found Metals (Cont'd)

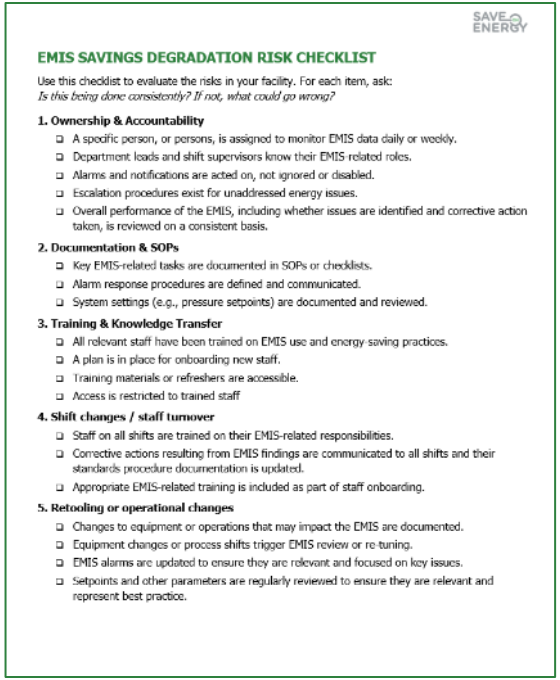
Key risk factors

- Lack of documentation and training and reliance on energy manager
- Lack of ownership and accountability at the team level to review energy performance data and take action on issues or alarms

Assessing your risks

5

What are the biggest risks in your organization when it comes to the degradation of EMIS-related benefits?



SAVE ON ENERGY

EMIS SAVINGS DEGRADATION RISK CHECKLIST

Use this checklist to evaluate the risks in your facility. For each item, ask:
Is this being done consistently? If not, what could go wrong?

1. Ownership & Accountability

- ❑ A specific person, or persons, is assigned to monitor EMIS data daily or weekly.
- ❑ Department leads and shift supervisors know their EMIS-related roles.
- ❑ Alarms and notifications are acted on, not ignored or disabled.
- ❑ Escalation procedures exist for unaddressed energy issues.
- ❑ Overall performance of the EMIS, including whether issues are identified and corrective action taken, is reviewed on a consistent basis.

2. Documentation & SOPs

- ❑ Key EMIS-related tasks are documented in SOPs or checklists.
- ❑ Alarm response procedures are defined and communicated.
- ❑ System settings (e.g., pressure setpoints) are documented and reviewed.

3. Training & Knowledge Transfer

- ❑ All relevant staff have been trained on EMIS use and energy-saving practices.
- ❑ A plan is in place for onboarding new staff.
- ❑ Training materials or refreshers are accessible.
- ❑ Access is restricted to trained staff

4. Shift changes / staff turnover

- ❑ Staff on all shifts are trained on their EMIS-related responsibilities.
- ❑ Corrective actions resulting from EMIS findings are communicated to all shifts and their standards procedure documentation is updated.
- ❑ Appropriate EMIS-related training is included as part of staff onboarding.

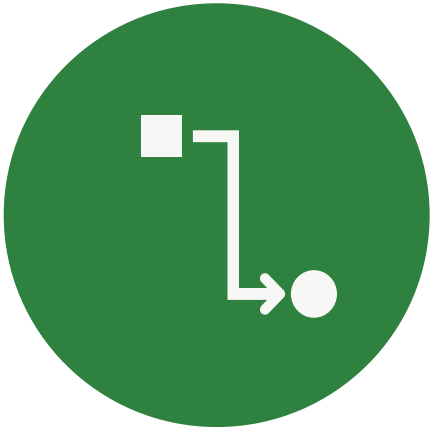
5. Retooling or operational changes

- ❑ Changes to equipment or operations that may impact the EMIS are documented.
- ❑ Equipment changes or process shifts trigger EMIS review or re-tuning.
- ❑ EMIS alarms are updated to ensure they are relevant and focused on key issues.
- ❑ Setpoints and other parameters are regularly reviewed to ensure they are relevant and represent best practice.

Elements of a sustainment strategy

What does sustainment look like?

Operational energy savings sustained over 2+ years



Performance tracked, reviewed and acted on

Practices are embedded, not optional

Key elements of sustaining EMIS savings

Training and reinforcement

Integration into processes

Accessible and actionable data

Resources and accountability

Clear ownership and responsibilities

Regular reviews and corrective actions

Examples of key elements being applied - 1

Management commitment (resources and accountability)

- Leadership ensures that trained staff are available to maintain the EMIS and an annual budget is established to maintain and update the EMIS
- A manufacturing VP included monthly EMIS performance reviews in executive meetings to maintain visibility and pressure for follow through

Clear ownership and responsibilities

- Plant manager requires each department to assign an energy point person responsible for energy performance in their department
- Specific individuals are identified and documented so, when alerts are issued, it is clear who should received them and be responsible for resolving them

Examples of key elements being applied - 2

Regular reviews and corrective actions

- Teams review their energy performance on a weekly basis to identify issues or opportunities
- Performance of the EMIS, including how long it takes to resolve alerts, is reviewed on an annual basis to identify improvement opportunities

Accessible and actionable data

- An automotive supplier developed line-level energy key performance indicators (KPIs) (e.g. kWh/unit) and aligned them with department goals
- A die casting facility used EMIS data to generate weekly dashboards sent to all supervisors with traffic light performance ratings

Examples of key elements being applied - 3

Integration into processes

- Shutdown checklists include energy items like compressed air isolation and idle equipment verification
- Project processes for retooling presses include steps for verifying EMIS setpoints and reactivating control schedules

Training and reinforcement

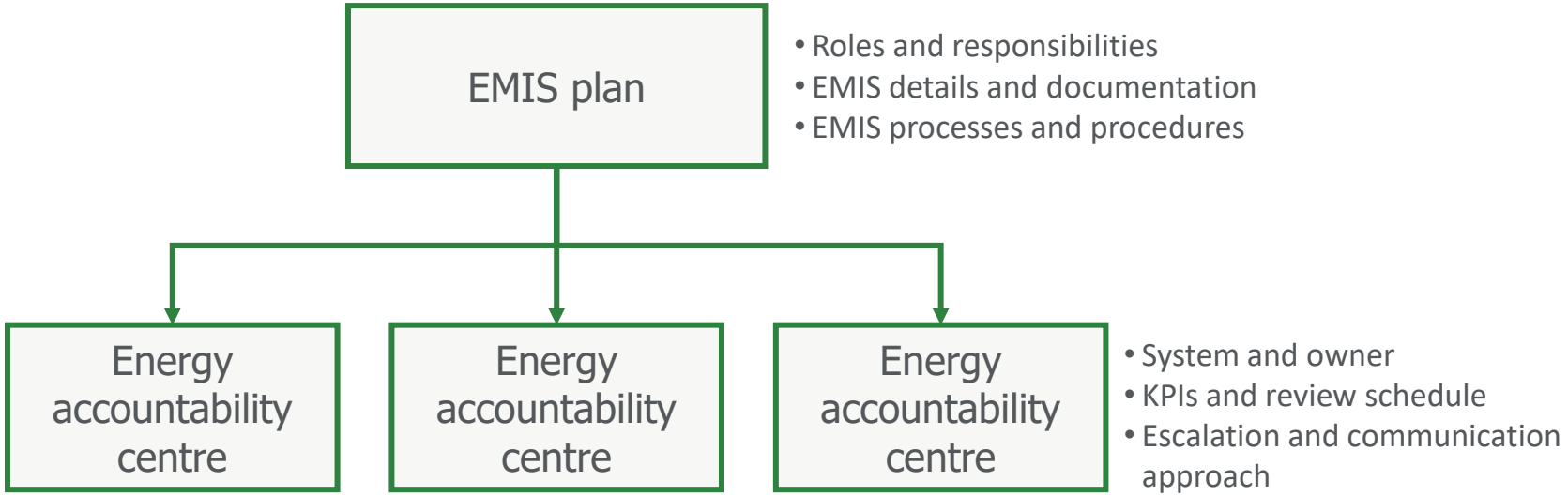
- EMIS training relevant to specific roles is incorporated into all staff onboarding
- A maintenance supervisor created a monthly energy update email that summarized key wins, anomalies, actions taken and recognition for staff contributions

Examples of key elements being applied - 4

Continuous improvement (CI)

- Opportunities identified, alerts issued, alerts resolved and actions taken are all tracked, documented and reviewed to ensure EMIS benefits are being sustained
- EMIS operations are included as part of annual facility energy management system audits to verify if correct processes are being followed and to develop corrective actions if non-conformities are found

Building a sustainment plan



Group activity: plan template walkthrough

- Section 1: system and owner
- Section 2: KPIs and review schedule
- Section 3: escalation and communication approach

EMIS funding is available!

The Expanded Energy Management Program from Save on Energy provides **up to $250,000** for the installation of an energy management information system.

Stay connected with tools and resources

- Virtual one-on-one coaching: post-webinar support intake form for tailored support for organizations to manage energy resources effectively
- Monthly bulletin: sign up to receive monthly training updates on all Save on Energy training and support new tools and resources
- Live training calendar: visit this page to easily register for upcoming events and workshops
- Training and support webpage: visit this page to access all training and support materials

Thank you!

SaveOnEnergy.ca/Training-and-Support

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Powering Tomorrow.

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POWER WHAT'S NEXT