

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY (SEMI) PROGRAM

Energy Management Information System (EMIS)

February 10, 2026

The webinar will begin shortly...



Natural Resources
Canada



Speaker Introduction

Anna Filocha



Efficiency Programs Marketing Strategist, **ERA**

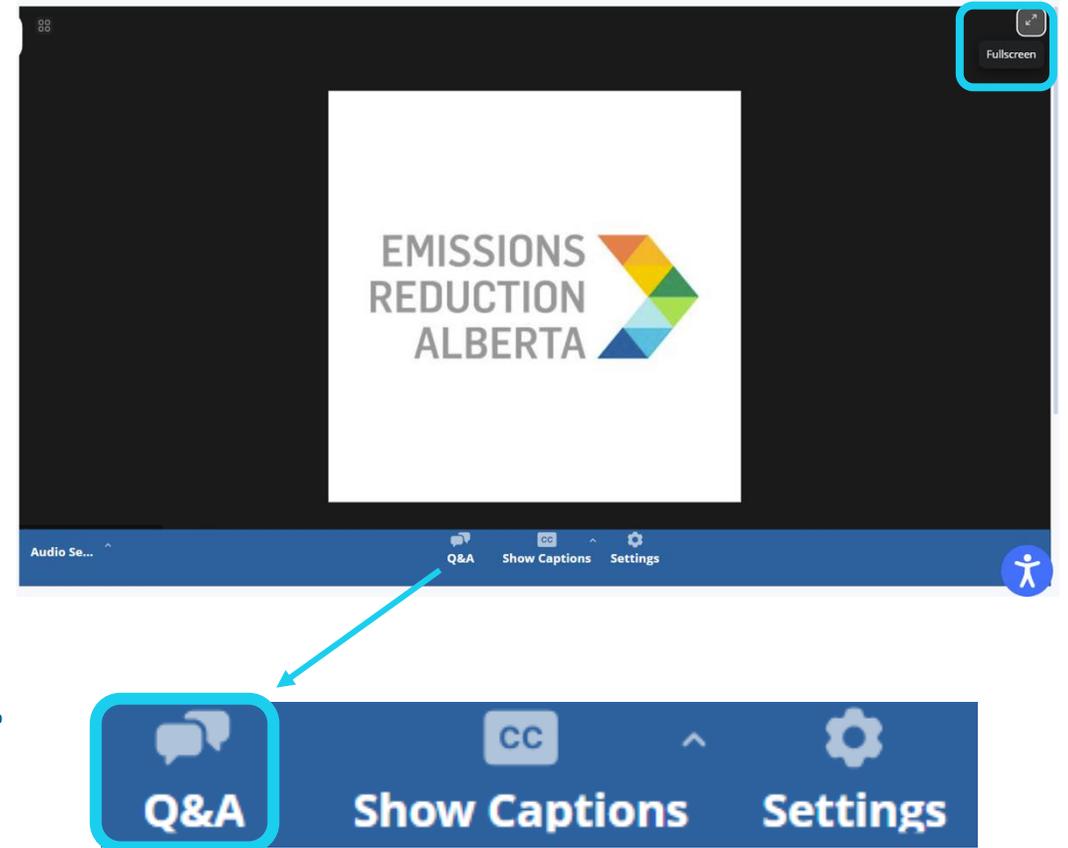
Parminder Sandhu



Managing Director, **Enerva**

Housekeeping

- ✓ All participants' microphones are muted.
- ✓ Please submit your questions using the "Q&A" feature located at the bottom of the screen.
- ✓ To view the webinar in full screen, click on the arrows on the top right.
- ✓ A recording of this session will be available soon on ERA's website and YouTube channel.
- ✓ If you encounter any technical issues, please reach out to Sophie at sashworth@eralberta.ca.



Land Acknowledgement

In the spirit of reconciliation, we, at ERA, acknowledge the privilege of living, working, and investing on traditional territories, which include Treaty 6, Treaty 7, and Treaty 8 Nations; Otipemisiwak Métis Government of the Métis Nation; Inuit; First Nations; and all others who live and care for these lands.

We are dedicated to promoting a culture of collaboration and meaningful engagement.

Agenda

1

What is an EMIS?

Definition and value proposition

2

Core Building Blocks

From sensors to management dashboards

3

Architecture Choices

Wired vs. wireless—overcoming connectivity barriers

4

Case Study

Real-time detection in action: \$10K annual savings

5

ERA SEMI Funding

Deadlines, requirements, and your path forward



ERA-AT-A-GLANCE

VISION

Alberta has a diversified economy with competitive industries that deliver sustainable environmental outcomes and attract investment

OPERATING MODEL

Provide grants to novel, first in kind technology demonstrations & energy efficiency incentives for Alberta's businesses

MISSION

Reduce emissions & grow Alberta's economy by accelerating the development & adoption of innovative technology solutions

We support a host of technologies to achieve broad environmental and competitiveness improvements:

- Decarbonization
- Energy efficiency
- Recycling
- Water treatment
- Soil remediation



Lean, low-cost administration – providing good value for Albertans

SEMI Program Funded Activities



Energy Assessments and Audits (EAA) [Closed to new applications]



Strategic Energy Management (SEM) [Closed to new applications]



Capital Retrofits [New application process starting January 7, 2026]



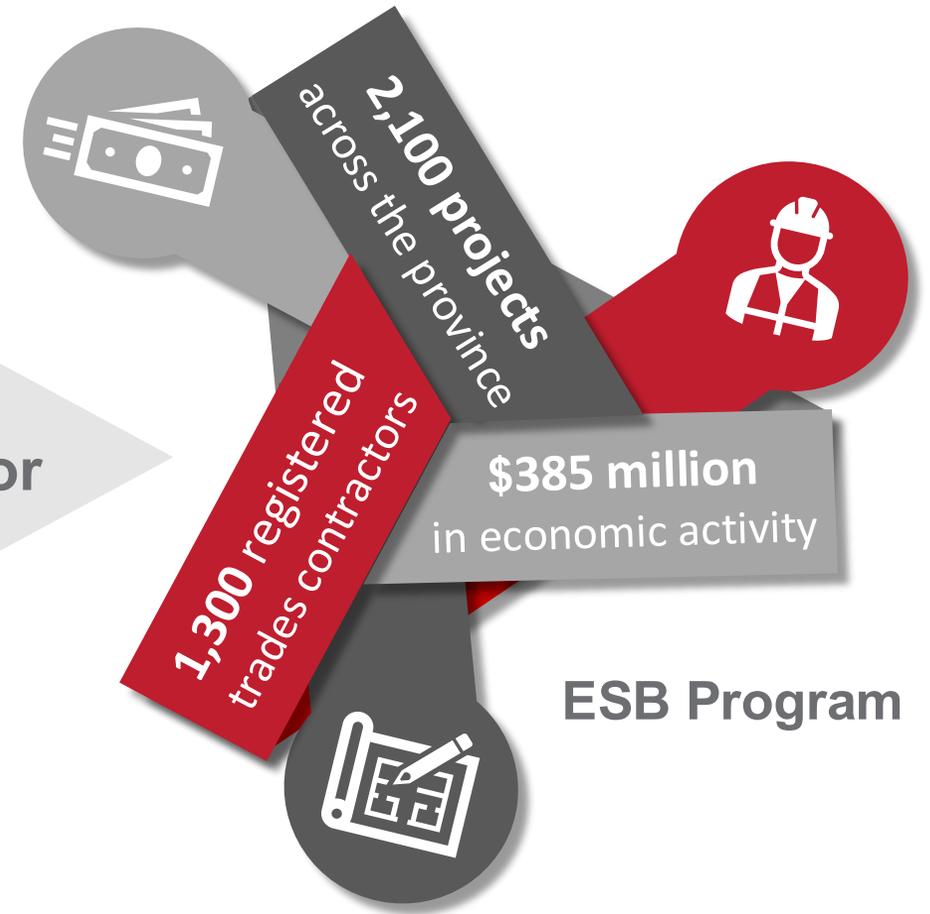
Energy Management Information Systems (EMIS) [Closing March 31, 2026]

Important: Participants need to get their FRA and EMIS Terms & Conditions (T&Cs) signed by March 31, 2026, to be eligible.

About Enerva

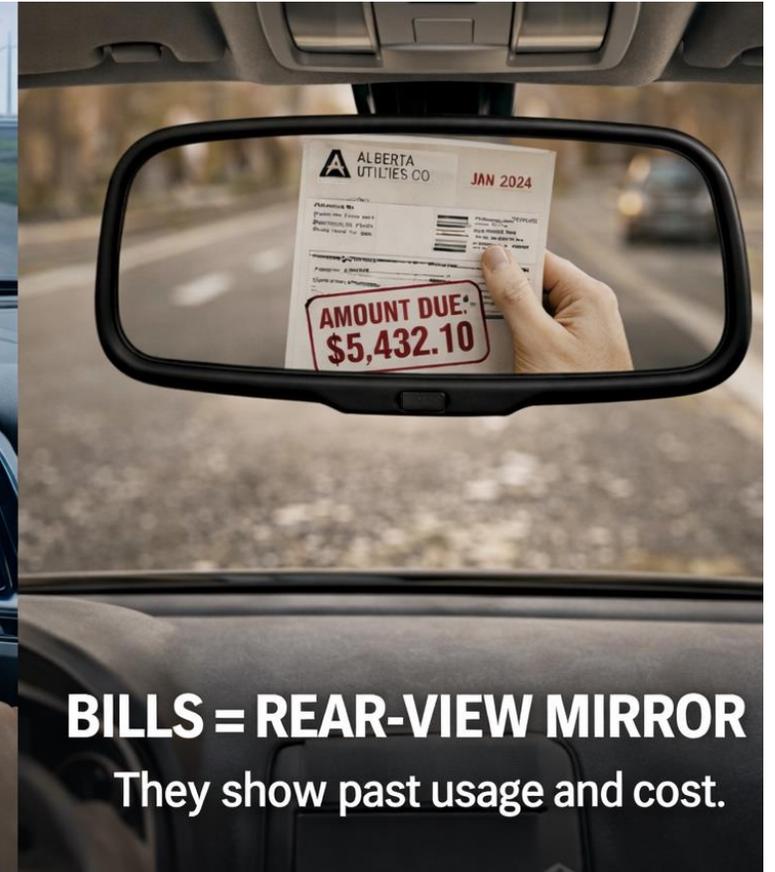
Enerva is a Canadian-owned company specializing in comprehensive program design and delivery and is trusted by utilities, government agencies, and program administrators.

Previous collaboration with ERA on the **Energy Savings for Business (ESB) Program**:



What is an EMIS?

An Energy Management Information System (EMIS) integrates hardware (e.g., meters and sensors) with software to collect energy and process data, analyze performance patterns, and drive continuous improvement across your facility.



The EMIS Value Proposition

1

Cost Savings

Typical payback < 2 yr

Detect waste, optimize operations, reduce consumption by 5-15%

2

50% Funding Available

ERA SEMI Program

Up to \$250K available
Deadline:
March 31, 2026

3

Stop Flying Blind

Energy visibility

Know what's happening now, not when the bill arrives

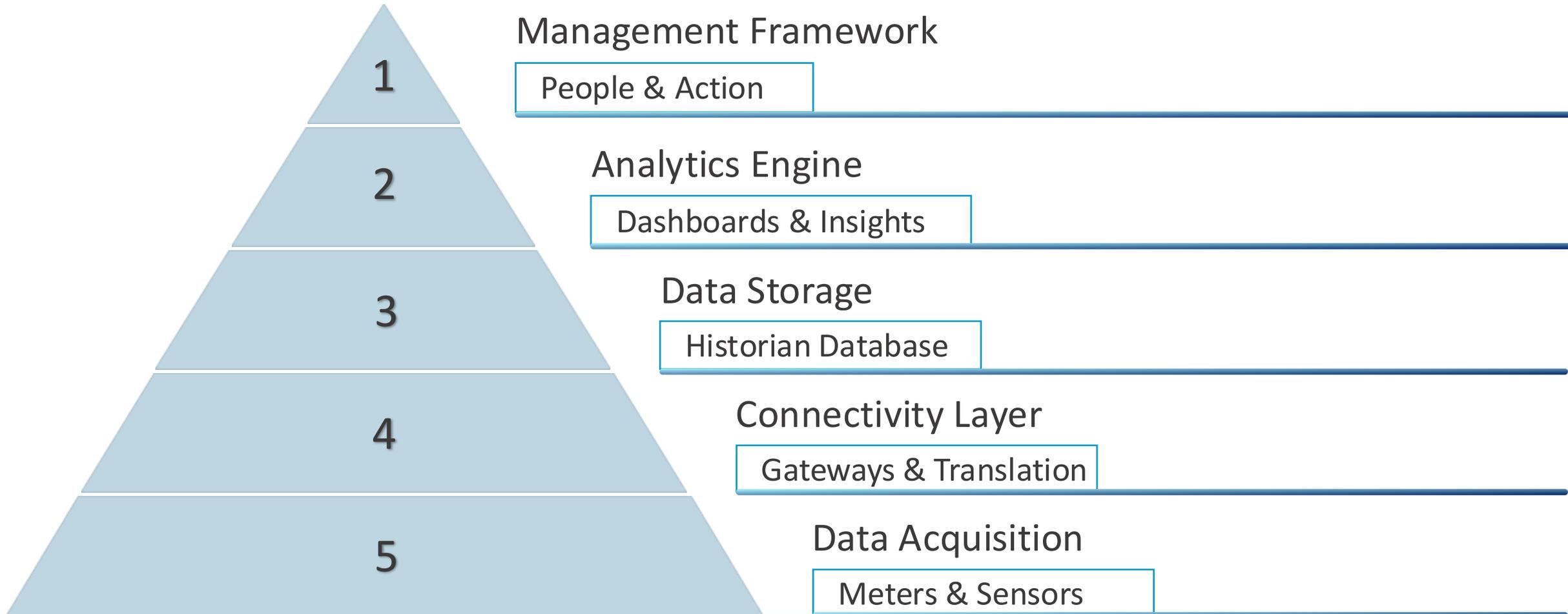
4

Easier Compliance

M&V ready

Automated reporting for Capital Retrofits or any other Energy Savings Measures

The Five Core Building Blocks



The EMIS Cycle: Detect → Decide → Act

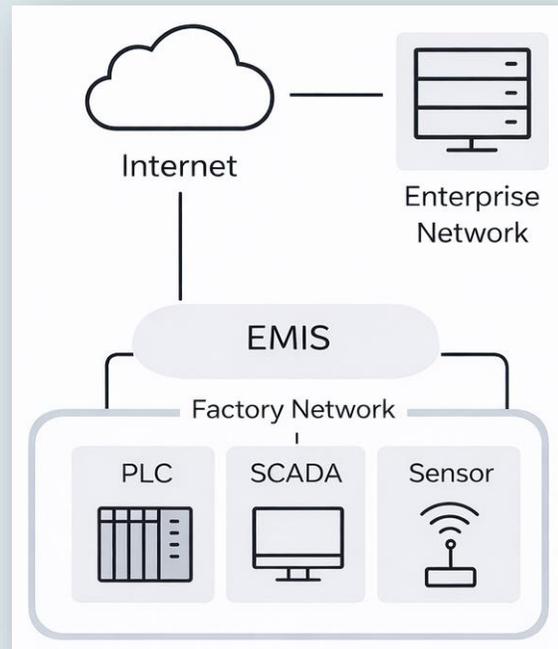


Making the Right Architecture Choices

Wired Systems

Best For:

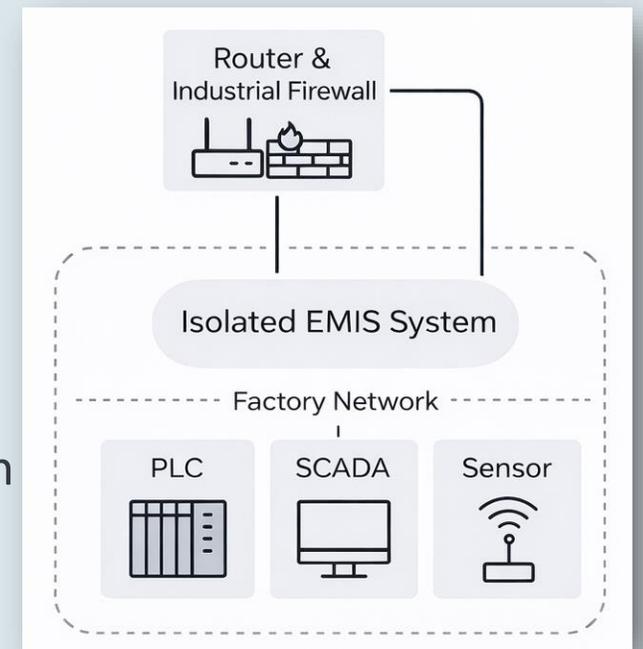
- Integrated control
- New construction
- Or existing capacity
- On-premise or cloud solutions



Wireless Networks

Best For:

- Retrofit installs
- Isolated or integrated
- Hard-to-reach areas
- Quick deployment and lower cost
- AES128 bit encryption



LoRaWAN - Overcoming Connectivity Barriers

The Challenge: Running conduit in aging industrial facilities is expensive, disruptive, and often impractical.



Superior Range

With good design & layout



Dramatic Cost Savings

~70% faster and lower cost installations



Set It and Forget It

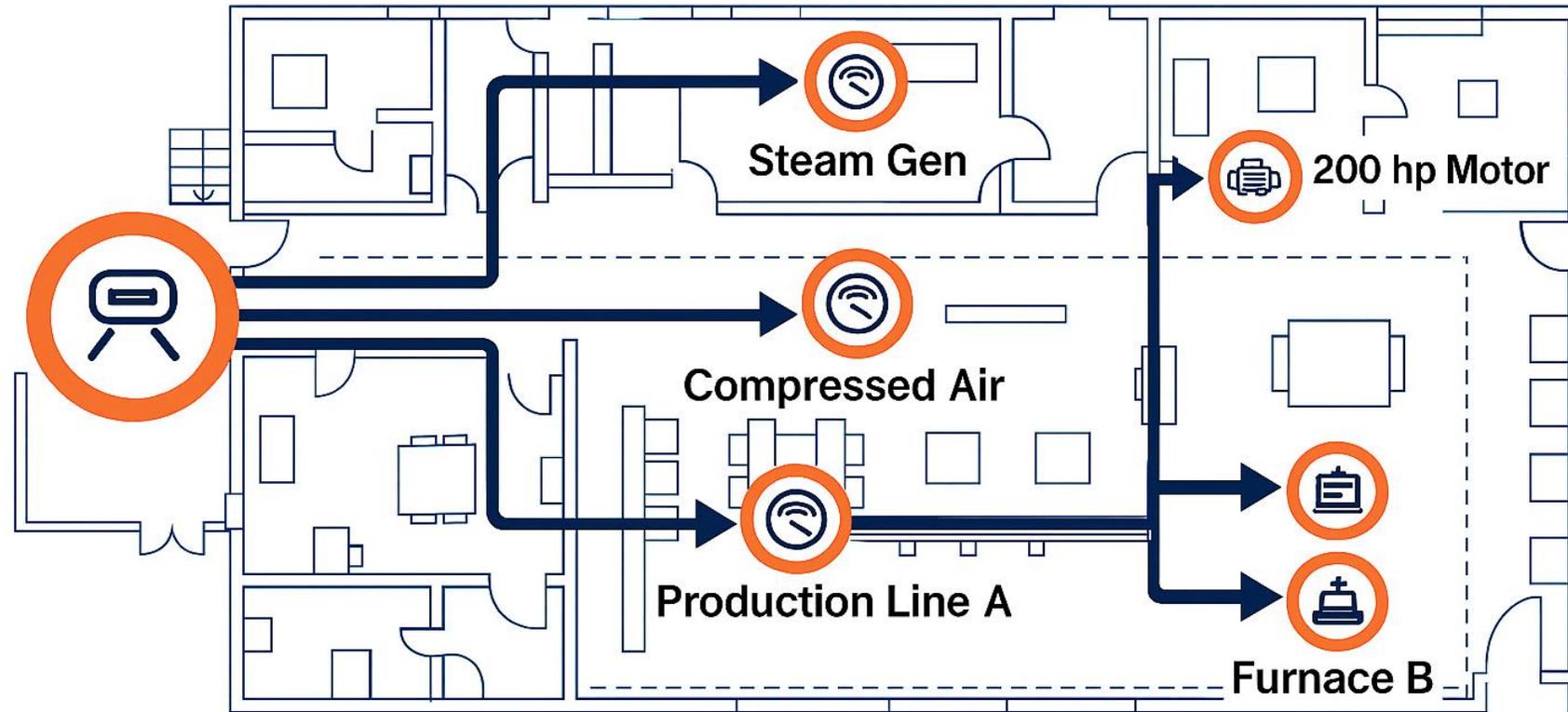
5 to 10-year battery life

Establishing Energy Accountability Centers (EACs)

1. Main Utility Meter
(Bill Validation Only)

2. Sub-Metering
(Process/Dept)

3. Asset Monitoring



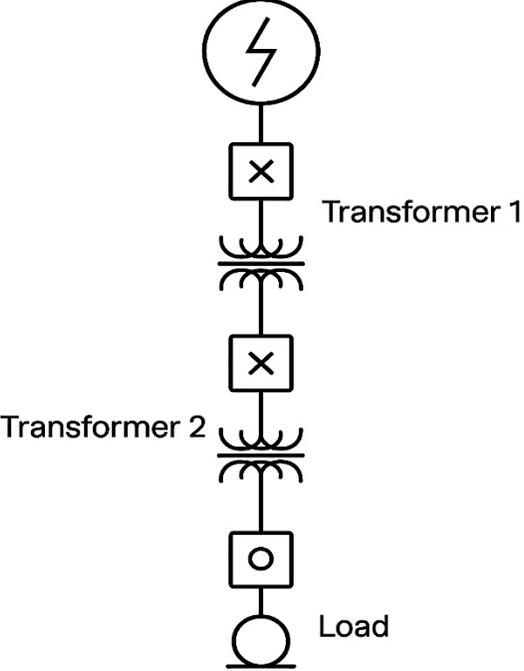
Recommendation for Effective Implementation

1 Design optimal EMIS layout

2 Prioritize controllable, high-impact loads

3 Assign “human-in-the-loop” monitoring

Single-Line Diagram



Case Study: The Value of Real-Time Visibility

The Problem (Without EMIS)

The Event: Sunday, 2:00 AM — Sanitation Shift

The Issue: Hot water valve remained 15% open outside production hours.

What Occurred: Sanitation ended at 2:00 AM, but the valve didn't fully close.

The Waste: Natural gas heated unused water for the rest of the weekend.

 **Usual Detection:** Detected as a bill increase weeks later, after 4-6 weeks of waste.

Case Study: The Potential Results with EMIS

✓ Problem solved within 15 minutes with EMIS

2:00 AM
Fault occurs

2:15 AM
EMIS alarm triggers

2:20 AM
Operator notified

2:25 AM
Manual override

✓
Problem solved

\$2,000

Avoided Cost

\$10,000

Potential
Annual Savings

< 2 Years

EMIS Payback

ERA SEMI Program: Important Deadlines

March 31, 2026

Application Deadline

Submit your project scope, vendor quotes, and application by this deadline.

March 31, 2027

Completion Deadline

All equipment must be fully installed, commissioned, and invoices paid.



Time is critical: These deadlines are firm. No exceptions or extensions.

Organize Your Project to Meet Deadlines

NOW → Q1 2026:

Scope EMIS, get vendor quotes

→ Q1 2026:

Submit EMIS application before **March 31**

→ Q2-Q4 2026:

Procurement, installation, commissioning

→ Q1 2027:

Final payments and project closeout



Tip: It is advisable to initiate vendor engagement early and allow extra time for commissioning as well as IT and security assessments.

Understanding Available Funding

Incentive up to...

\$50K

Small Facilities

Maximum funding for facilities under 400,000 GJ annual consumption

\$250K

Large Facilities

Maximum funding for facilities consuming over 400,000 GJ annually

Covers up to...

50%

Standard Cost Share

Program covers half of eligible project costs for most applicants

100%

Enhanced Funding

Non-profit and Indigenous-owned organizations may qualify for full funding

Eligible Costs

What's Eligible?

- ✓ EMIS hardware (meters, sensors, gateways)
- ✓ Software licenses and subscriptions
- ✓ Installation and commissioning
- ✓ Training and implementation support
- ✓ Facility gap analysis study

What's NOT Eligible?

- ✗ Any costs that are not directly required to purchase or installation of the EMIS
- ✗ Any costs incurred prior to October 16, 2024, or after March 31, 2027

Please refer to the EMIS Terms and Conditions, Application Guide and Eligibility Requirements documents available on eralberta.ca/semi/resources for more information.

Enrollment Process

The EMIS registration process is easy and secure.
Register on the SEMI online portal at www.semiprogram.ca.

Step 1

Submit an EMIS Application by **March 31, 2026**

Step 2

Confirm Scope and Sign Terms & Conditions

Step 3

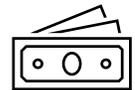
Implement the EMIS in your facility

Step 4

Submit post-activity deliverables by **March 31, 2027**

Step 5

Receive Incentives



Frequently Asked Questions

- 1) What is the deadline for EMIS applications?
- 2) Do I still need to complete the FRA first?
- 3) When can I expect to hear about the progress of my application?



Questions?

Please submit your questions using the “Q&A” function.

Ready to begin your SEMI journey?

Unanswered Questions?

Review the guidelines and supporting materials online at www.eralberta.ca/semi

Contact our program team directly: semi@eralberta.ca



Register on SEMI Portal

<https://semiprogram.ca/>

Create your account and start your application.

This webinar will be posted on the ERA YouTube page.



THANK YOU

Visit eralberta.ca/semi for more information



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