

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY (SEMI) PROGRAM

Strategic Energy Management (SEM) Training

January 23, 2025



Natural Resources
Canada



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; Metis Nations (Region 3 and 4); 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.

Housekeeping

- ✓ Microphones are muted
- ✓ If you called in, select “telephone” and enter audio PIN
- ✓ Type questions into the “Questions” section of the control panel
- ✓ We will try to answer as many questions as possible
- ✓ If you have technical difficulty during the webinar, don’t worry! You will be able to watch the recording that will be posted on our website shortly after the live session.

Agenda

- About Enerva - ERA's Service Provider for the Facility Readiness Assessment and Strategic Energy Management Training
- SEMI Program Overview & Eligible Participants
- Strategic Energy Management Training Explained
- Q&A

Speaker Introductions

Miki Takeyama



ERA's SEMI Program Coordinator

Julien Poirier



Enerva's SEM Lead

About Enerva



Enerva is a Canadian employee-owned company that offers comprehensive program design and delivery services trusted by utilities, government agencies, and program administrators.

- Experienced team of engineers and energy analysts
- Focus on energy management and emission reductions
- Design and develop energy analytics software
- Energy management Centre of Excellence in Calgary

About Enerva



Supported ERA to deliver Energy Savings for Business (ESB) Program

- Over 2,100 completed projects distributed across the province
- Over 1,300 registered trades contractors creating direct employment
- Accelerated adoption of commercially available technology
- Drove \$385 million in economic activity

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY (SEMI)

Program Overview



Natural Resources
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SEMI Program Overview

PURPOSE

To help industrial and manufacturing facilities improve their energy performance and increase profitability by offering co-funding to implement an integrated system of practices, processes, and capital retrofits.

OBJECTIVES

To support eligible facilities to:

- Understand energy use & reduce related costs
- Optimize energy use & reduce GHG emissions
- Grow organizational skills and capacity building
- Implement energy-saving capital retrofits
- Improve energy performance
- Increase profitability & competitiveness

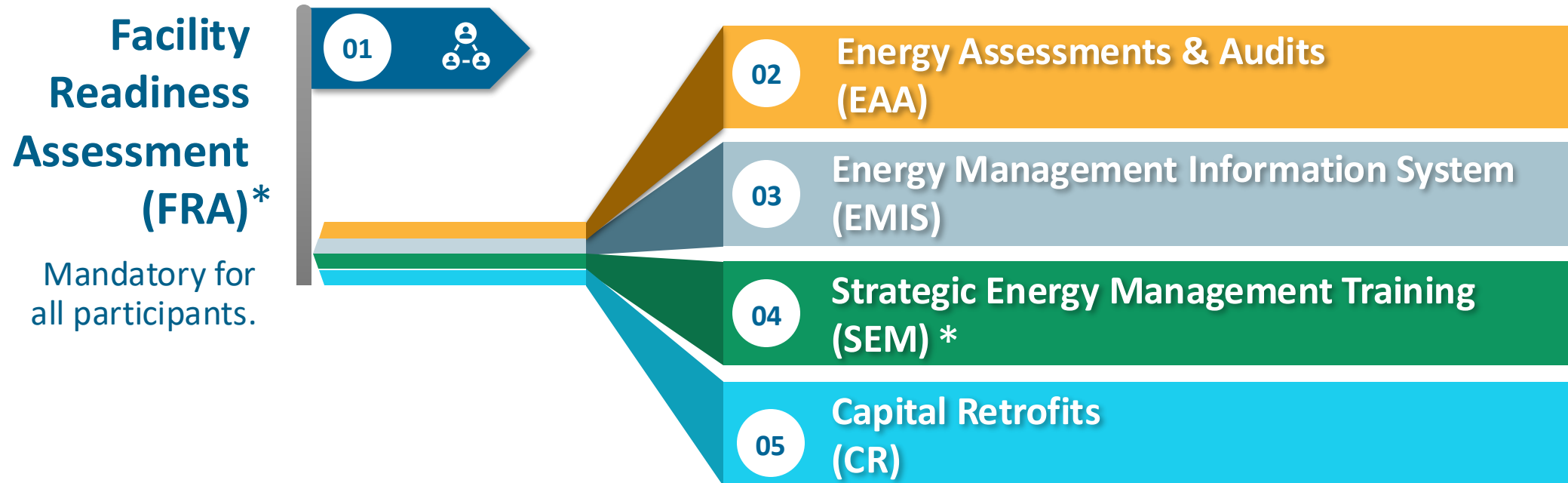
SEMI Program Overview

- Funding from the Government of Alberta's Technology Innovation and Emissions Reduction (TIER) fund and Natural Resources Canada (NRCan)
- Up to 50% of eligible project costs for for-profit organizations
- Up to 100% of eligible project costs for not-for-profits and Indigenous organizations
- Additional funding caps per eligible activity are stated on the SEMI website
- Allows in-kind contributions from the facility to offset the co-funding requirement for certain activities
- Program ends March 31, 2027

Eligibility

- ✓ The facility is owned or leased in Alberta and has been in operation for at least 1 year with fixed equipment and building(s) used to produce goods.
- ✓ The facility operates in the following sectors defined by North American Industry Classification System (NAICS) codes:
 - 11 – Agriculture, forestry, fishing and hunting
 - 21 – Mining, quarrying, and oil and gas extraction
 - 22 – Utilities
 - 23 – Construction
 - 31-32-33 – Manufacturing
 - 48 – Transportation
 - 56 – Administrative and support, waste management and remediation services

SEMI Program Activities



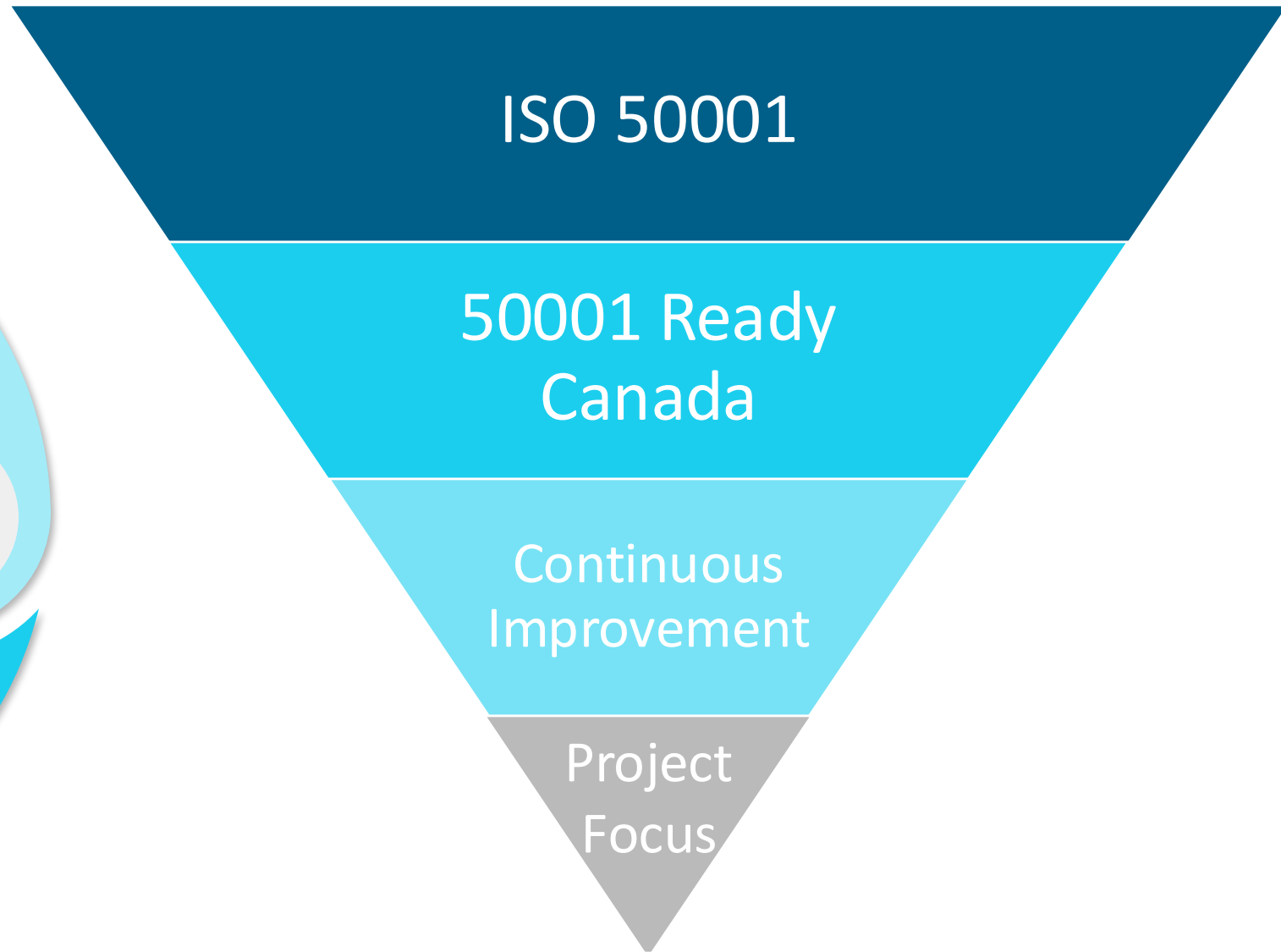
*FRA & SEM activities are delivered by Enerva.

Strategic Energy Management (SEM) Training

Strategic Energy Management (SEM) is a long-term approach to energy efficiency that includes setting goals, tracking progress, and reporting results.

A successful strategic energy management plan builds long-term relationships with energy users and targets persistent energy savings.

What is ISO 50001?



SEM Key Benefits



LOW & NO COST
MEASURES
INCREASE SAVINGS



IMPROVED
EMPLOYEE
ENGAGEMENT



DEMONSTRATE
LEADERSHIP IN ENERGY
PERFORMANCE

Who should consider SEM?

SEM should be considered if any of the following apply to your facility:



Focus on Energy Costs



Create Alignment across Facility for Energy Savings



Facilities with Multiple Energy Systems or Processes

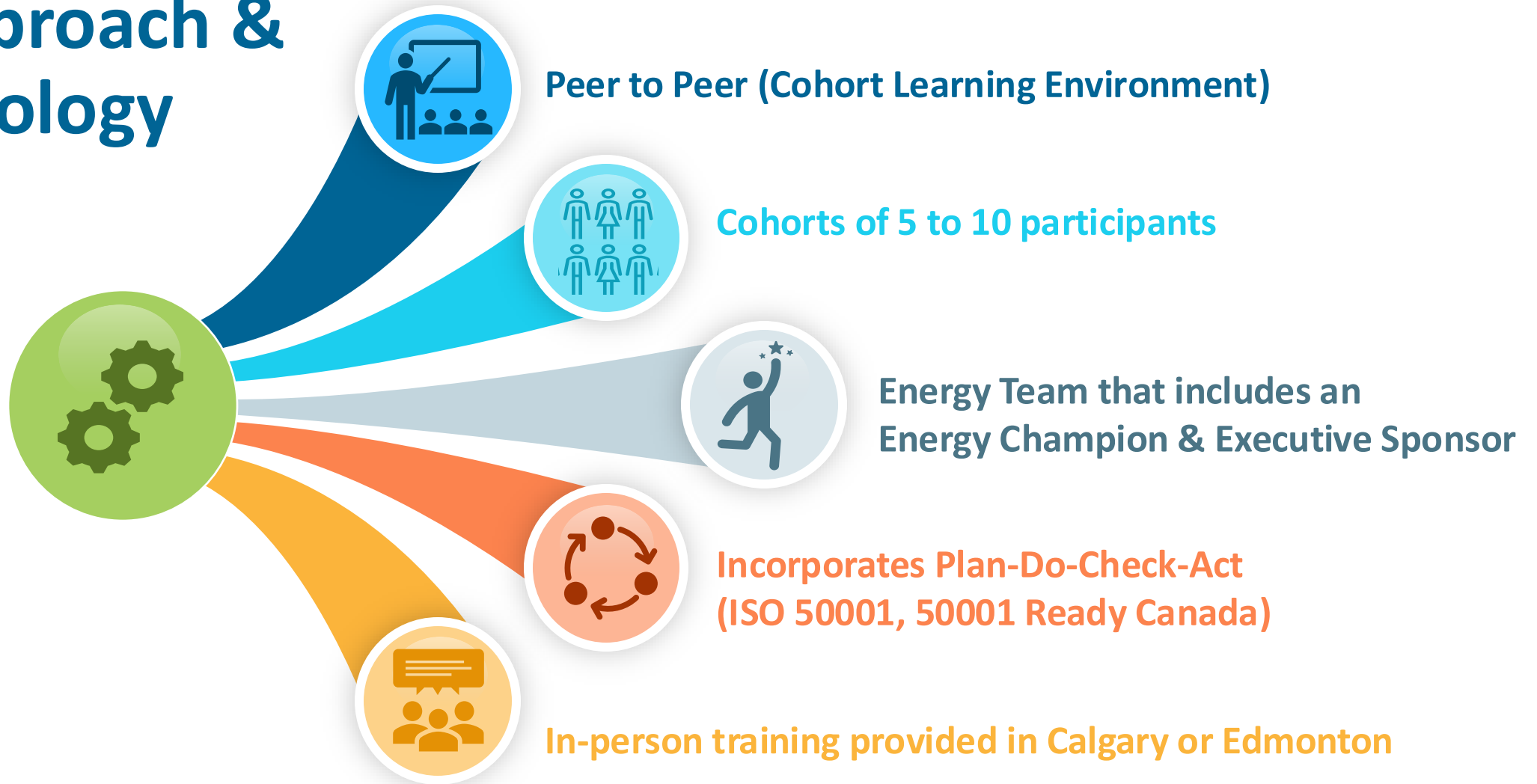


Continuous Improvement & Management Systems in Place



Sustainability & Environmental Goals

SEM Approach & Methodology



SEM Approach & Methodology (Continued)



SEM Journey



SEM Offerings



SEM

Participants

Ideally
2 per facility

Delivery

Focus on in-person
training & longer
timeline to support
one-on-one coaching

Key Outcome

Customized &
implementable
SEM plan

Value
Proposition

Knowledge transfer
& a structured SEM
plan specific to the
facility



SEM
Condensed

1 per facility
(possibly 2)

Increased option for
virtual delivery

Technical
capacity building

Accelerated
knowledge transfer
to improve energy
management skills



SEM Curriculum





Next Steps

Scan this QR code to find out more:



<https://www.eralberta.ca/semi/strategic-energy-management-sem/>

Frequently Asked Questions

- 1) How long will an FRA take to complete and what is the approximate cost?
- 2) How can I be an eligible contractor for the SEMI program?
- 3) Who is delivering the SEM training?



Questions?

Please type your questions into the “Questions” pane of the control panel, on the right-hand side of your screen.

Get Started with SEMI

Unanswered questions?

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

Email remaining questions to semi@eralberta.ca

This webinar will be posted on the ERA YouTube page.

Ready to begin your SEMI journey?

Register on the SEMI Portal semiprogram.ca today



THANK YOU

Visit eralberta.ca/semi for more information



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