

WEBINAR #1

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY (SEMI)

Program Launch

October 31, 2024



Natural Resources
Canada



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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.

Speaker Introduction

Heather Stephens



Chief Operating Officer

Luca Jungen



Efficiency Program Delivery Lead

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, it is being recorded and will be posted on our website



AGENDA

- About Emissions Reduction Alberta (ERA)
- SEMI Program Overview
- Anticipated Benefits
- Eligibility Criteria
- Program Design & Applicant Journey
- Q&A
- Next Steps

About Emissions Reduction Alberta (ERA)

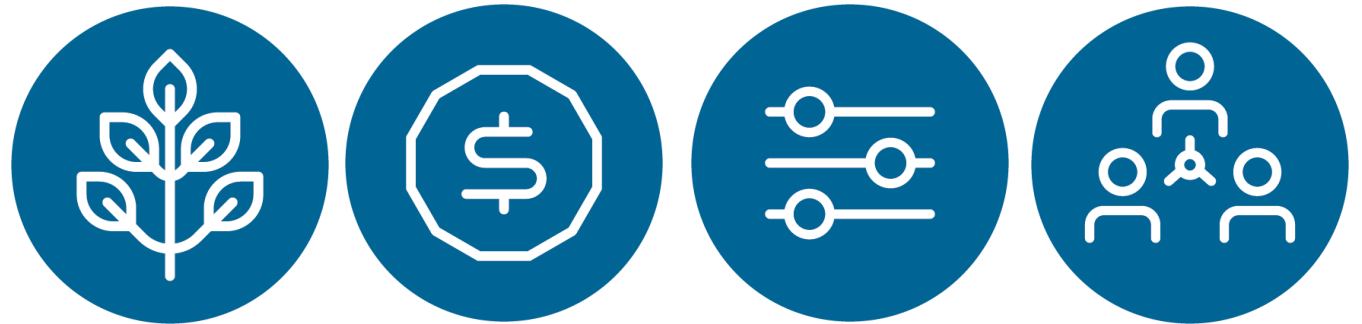
MANDATE

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

VISION

Alberta has competitive industries that deliver sustainable environmental outcomes, attract investment, and are building a diversified, lower emissions economy.

STRATEGIC PRIORITIES



ERA's Technology Areas



**IMPROVED
EFFICIENCY**



**EMERGING
ENERGY**



**INDUSTRIAL
DECARBONIZATION**



**CIRCULAR
ECONOMY**



**CARBON
MANAGEMENT**



**STRATEGIC ENERGY
MANAGEMENT
FOR INDUSTRY**

**EMISSIONS
REDUCTION
ALBERTA**



**Natural Resources
Canada**

Alberta

TECHNOLOGY INNOVATION

\$954M

TOTAL INVESTMENT



296

PROJECTS

36.0
MILLION TONNES

OF CUMULATIVE
EMISSIONS
REDUCTION BY 2030

102.2
MILLION TONNES

OF CUMULATIVE
EMISSIONS
REDUCTION BY 2050

\$7.42 BILLION TOTAL
PROJECT
VALUE



6.8:1

LEVERAGED
FUNDING
FROM PUBLIC
AND PRIVATE
INVESTORS

ACCELERATING UPTAKE OF COMMERCIAL-READY TECHNOLOGIES THROUGH
THE ENERGY SAVINGS FOR BUSINESS PROGRAM

\$47M 
INVESTED

2143

PROJECTS SUPPORTED
THROUGH THE ENERGY
SAVINGS FOR
BUSINESS PORTFOLIO

3.7 MT 

OF LIFETIME
EMISSIONS
REDUCED

ALL PROJECTS

46,505 PERSON-YEAR
JOBS IN ALBERTA
BY 2027



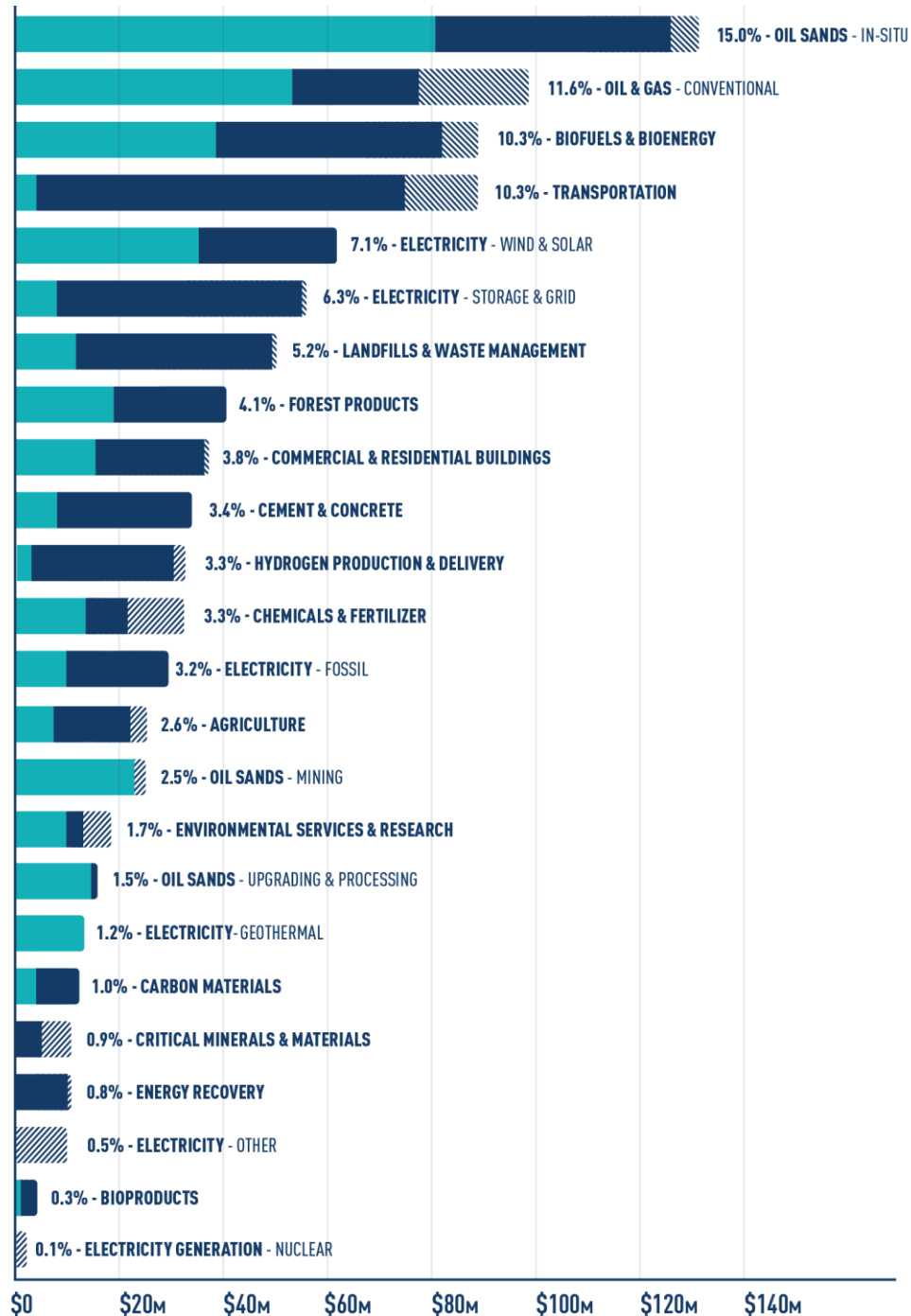
\$6.99 BILLION
GDP IMPACT TO
ALBERTA BY 2027



63,409 PERSON-YEAR
JOBS IN CANADA
BY 2027



\$9.26 BILLION
GDP IMPACT TO
CANADA BY 2027



INVESTING IN A BALANCED PORTFOLIO: ERA'S INVESTMENTS BY SECTOR

COMPLETED

Projects have completed all requirements as per the contribution agreement.

IN PROGRESS

Projects have an executed contribution agreement. Funds have been committed.

CONTRACTING

Projects approved for funding but in the process of executing the contribution agreement.

Energy Savings for Business Program

EMISSIONS
REDUCTION
ALBERTA



COMMERCIAL ADOPTION

2143

AS OF MAY 1, 2024

PROJECTS SUPPORTED
THROUGH THE ENERGY
SAVINGS FOR
BUSINESS PORTFOLIO

ENERGY SAVINGS FOR BUSINESS PROGRAM

INVESTED \$47 MILLION

JOB'S CREATED 1,277

AB GDP CONTRIBUTION \$141 MILLION

EMISSIONS REDUCED 3.7Mt OF LIFETIME EMISSIONS

PERCENT INCENTIVE SPEND PER REGION



STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY (SEMI)

Program Overview



Natural Resources
Canada



SEMI Program Overview

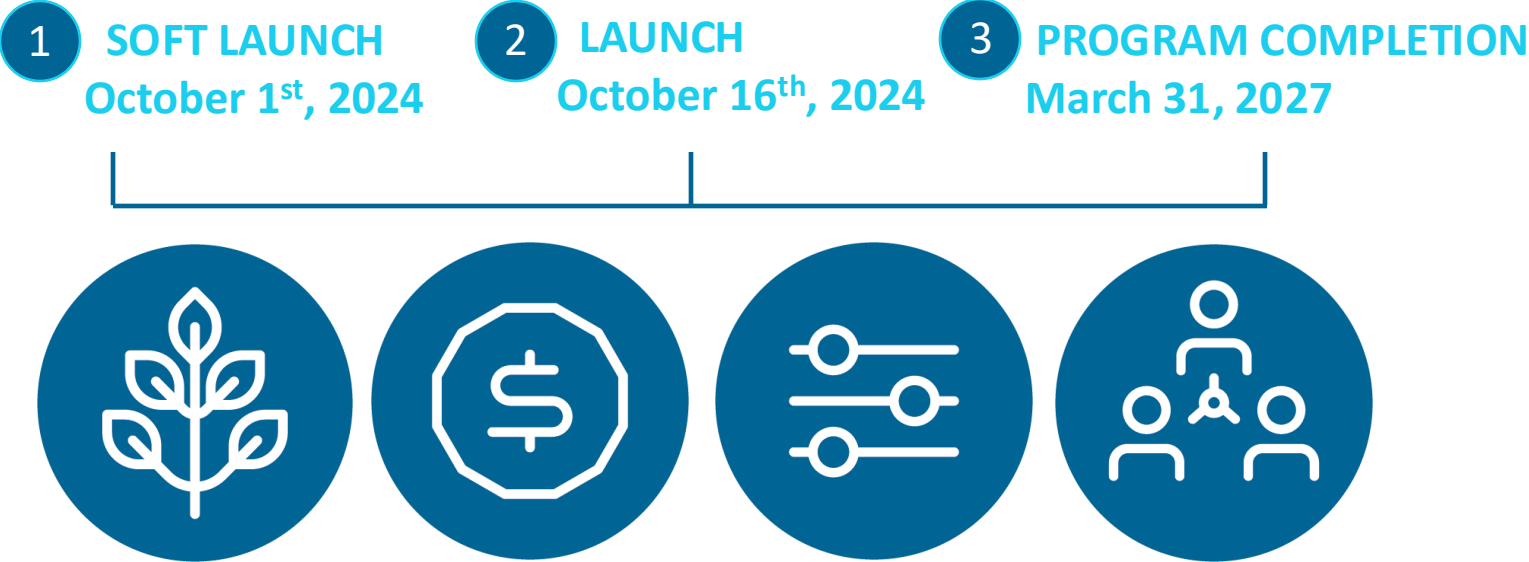
PURPOSE

SEMI will provide industrial and manufacturing facilities with knowledge, expertise, and training in energy management.

BENEFIT

The SEMI program will help participants increase profitability by reducing energy costs, growing organizational skills and capacity building, and helping cover the cost of capital retrofits.

PROGRAM TIMELINE



Anticipated Benefits

Total program budget of
\$50 million

Estimated economic
activity: **\$350 million**

Investment



Estimated **262 million**
lifetime tonnes of GHGs

Emissions



Estimated **200** industrial
facilities participating

Estimated total jobs
created: **1,250**

Job Creation



Eligible Participants

| NAICS Codes | Industrial Sectors |
|-------------|---|
| 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 |

Note: Eligible sectors may also include those that are engaged in energy consuming processes, and that involve the physical or chemical transformation of materials or substances into new products. Products may be finished (ready to use or consume) or semi-finished (raw material).

Eligible Activities



Energy Assessments & Audits (EAA)



Energy Management Information System (EMIS)



Strategic Energy Management Training (SEM)



Capital Retrofits (CR)

Incentives Available For Your Facility



Energy Assessments & Audits

Up to **\$50,000** per facility.



Energy Management Information System

Up to **\$50,000** for facilities consuming under 400,000 GJ annually, or up to **\$250,000** for those consuming more.



Strategic Energy Management Training

\$100,000 per facility, with a limit of 10 facilities when undertaken in cohorts.



Capital Retrofits

Up to **\$1,000,000** per facility.

In-kind Contributions

For for-profit organizations, the SEMI program covers up to 50% of an activity cost; however, it is anticipated that part of your contribution can be provided as an “in-kind” contribution.

In-kind contribution definition: a cost incurred by the Participant that avoids or replaces a task or requirement necessary to conduct an Eligible Activity. It can include facility staff time necessary to complete an activity of the SEMI program and prior energy management activities that contribute value to program activities.

Note: Participants are also required to disclose any other government funding related to program activities.

In-kind Contributions: Continued

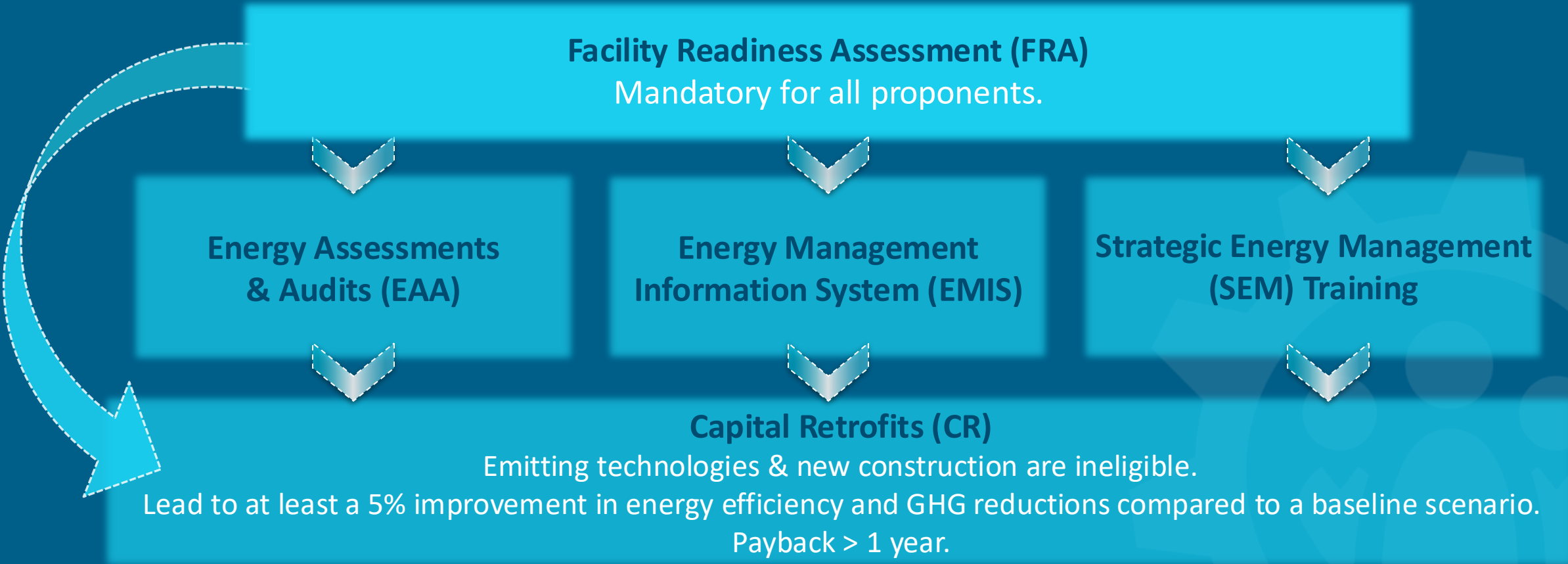
In-kind contributions can take place **before or during** the delivery of the Eligible Activity.

An in-kind contribution can include the time participants spend on tasks during the SEMI activity, including data collection, drafting documents, or developing the energy profile, baseline, and a breakdown of end-use energy consumption.

Past costs must avoid or replace a current cost:

- Past reports or study costs related to Eligible Activities will be allocated based on the relevance to offset the cost of current Eligible Activities.
- Past energy or other facility data gathering costs will be considered on a case-by-case basis according to the relevance of current or predicted operating circumstances.

Program Design



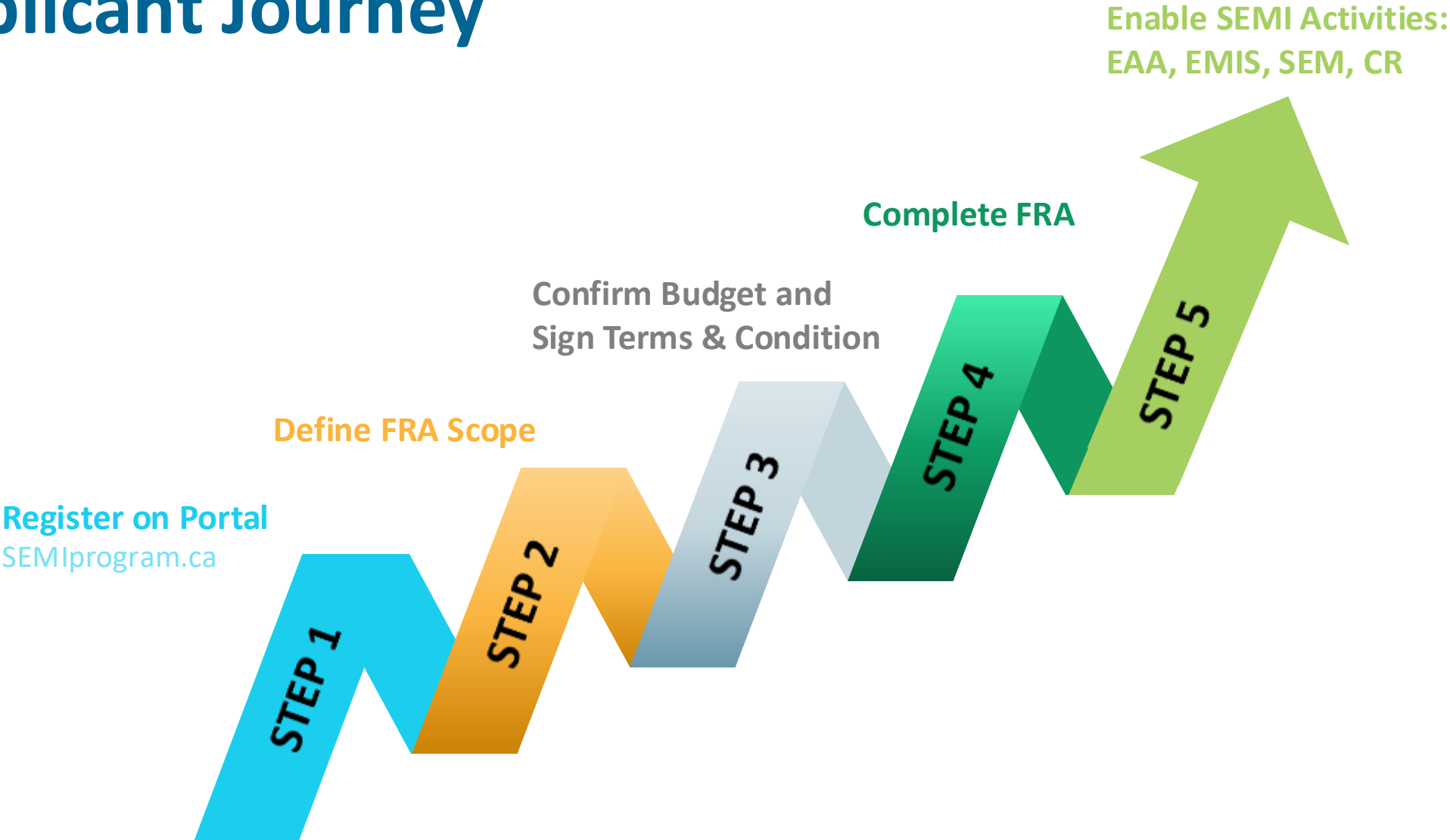
Capital Retrofit: Non-Emitting Technologies

Energy efficiency-focused capital investments must be non-emitting (e.g., use energy sources such as electricity, renewable energy / biomass, hydrogen, etc. resulting in zero GHG emissions at end use).

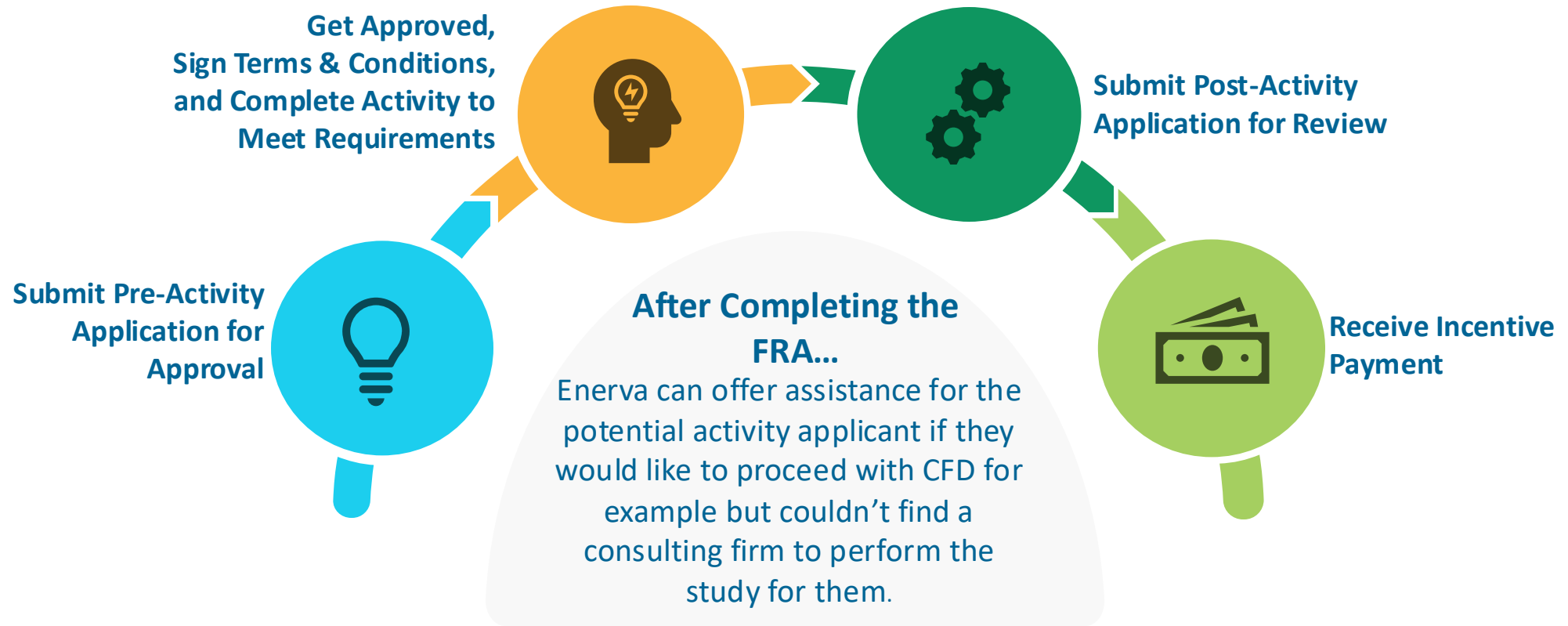
Examples:

- Steam trap replacements, as steam traps are part of the steam system and do not rely solely on fossil fuels for operation.
- Installation of heat recovery systems since they focus on enhancing energy efficiency without being limited to fossil fuel-powered equipment.
- Process-wide energy efficiency improvements, such as optimizing heat exchanger networks to improve overall system efficiency.

Applicant Journey



Application Process for EAA, EMIS & CR



STRATEGIC ENERGY
MANAGEMENT
FOR INDUSTRY

EMISSIONS
REDUCTION
ALBERTA



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Online Portal

Strategic Energy Management

eralberta.ca/semi/

EMISSIONS REDUCTION ALBERTA 15

IMPACTPROJECTSFUNDINGABOUT

This \$50 million program, with funding provided by the Government of Alberta and Natural Resources Canada (NRCan), will help the province's industrial and manufacturing sectors increase competitiveness, improve energy efficiency, and reduce greenhouse gas emissions until March 2027.

\$50 MILLION PROGRAM TO SUPPORT ENERGY MANAGEMENT IN ALBERTA'S I...

Watch laterShare

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY

Watch on YouTube

Ready to get started with SEMI?

Register on the SEMI portal.

REGISTER/LOGIN

Register for the SEMI Webinar

Don't miss FRA's informative session on SEMI.

REGISTER

Receive program updates

Sign up for the SEMI Newsletter.

SIGN UP

Resources

[SEMI Brochure](#)

[FRA Application Guide](#)

[FRA Terms and Conditions](#)

FREQUENTLY ASKED QUESTIONS

- 1) What is a NAICS code and how do I find it?
- 2) What expenditures are not eligible?
- 3) Can I participate in just one eligible activity? Or do I need to participate in all?
- 4) Is there a parent company cap on the number of facilities that can participate?



Questions?

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

NEXT STEPS

Unanswered questions?

- Review the guidelines and supporting materials online at www.eralberta.ca/semi
- Register on the SEMI Portal semiprogram.ca today
- Email remaining questions to semi@eralberta.ca

This webinar will be posted on the ERA YouTube page.



THANK YOU

Visit eralberta.ca for more information



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