

Speaker introductions

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Housekeeping

- Microphones are muted
- If you called by telephone, select "telephone" and enter your audio PIN
- Type questions into the "Questions" section of the control panel
- We answer as many questions as possible after the presentation
- If you have technical difficulty during the webinar (interface or audio) contact Kevin at kduncan@eralberta.ca
- Webinar is being recorded and will be posted on our website



Agenda

- About Emissions Reduction Alberta (ERA)
- Industrial Transformation Challenge Overview
 - Scope and eligibility
 - Submission and evaluation process
 - Timelines
- Advice for preparing a successful submission
- Q&A



About 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 carbon economy.

STRATEGIC PRIORITIES

1 ACCELERATE TECHNOLOGY

2 DRIVE COMMERICALIZATION

3 MAXIMIZE IMPACT

SUPPORTED BY:







COMMITTED OVER

\$821 HILLION

231 TECHNOLOGY ACCELERATION PROJECTS

\$6.5 BILLION



SUPPORTED BY:

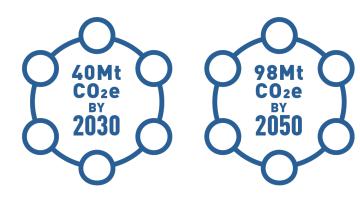


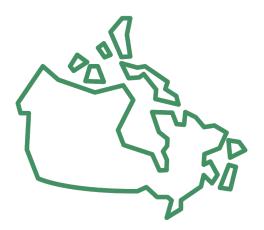
Investment impact



GDP IMPACT AND 33,400 PERSON-YEAR-JOBS IN ALBERTA BY 2025

ANTICIPATED TO DELIVER



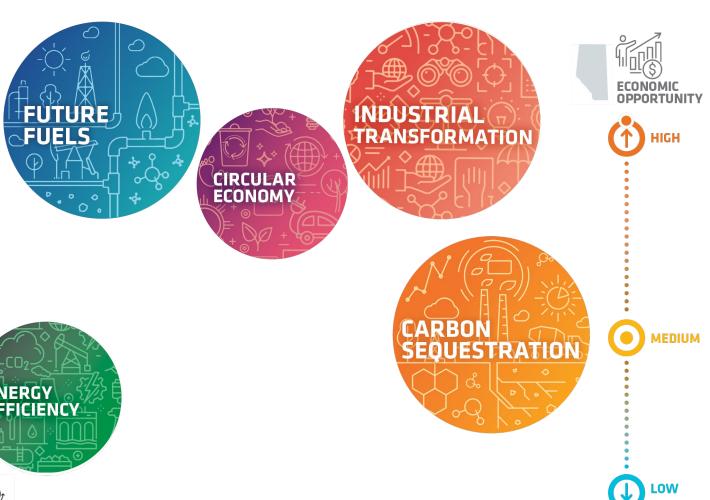


\$6.6 BILLION

45,800

PERSON-YEAR-JOBS IN CANADA BY 2025





MEDIUM



NEAR

Technology

Roadmap



LONG _



CARBON CAPTURE KICKSTART



CIRCULAR ECONOMY CHALLENGE



SHOVEL-READY CHALLENGE



Trusted Partners









Natural Resources Ressources naturelles Canada Canada



























Call objectives

- ERA's Industrial Transformation TRM focus area
- Dual outcomes: GHG reductions, economic benefits
- Disruptive innovation for Alberta's industrial sector
- Support pathway to net zero
- Beyond first-mile solutions



Project structure, term, and initiation

- ERA funds "Projects" with clear objectives, milestones, timelines, deliverables and a budget
- Maximum length is three years, plus one year of operational time where applicable
- Projects must commence within 120 days of approval* (potential for delayed start date of up to 12 months)
- Technologies must be demonstrated or deployed in Alberta



Funding overview

- Up to \$50 million available
- Maximum \$10 million per project*
- Minimum of \$250,000
- Funding must be matched at least 1:1
- Leverage with funding partners where possible

See *Eligible Expense and Cost Instructions* for details regarding eligibility of costs



Eligible applicants













Technology examples

- Electric boilers, industrial heat pumps, and other means of electrifying industrial heat
- Onsite industrial clean heat production
- Thermal energy storage
- Hydrogen end uses in industry
- Process electrification
- Novel hydrocarbon extraction
- New processes, chemistries, etc. for cement, fertilizer, plastics, pulp and paper, oil and gas upgrading/refining, and other industries



Technology examples

- Transformative agricultural technologies and practices including electrification, advanced fertilizers, and mitigation of agricultural methane emissions
- Novel alternative proteins
- Step-changes in fugitive methane management
- Solutions for high global warming potential gasses including climate-friendly refrigerants and fluorinated-gas reduction/substitution
- New industries and products, such as:
 - Hydrocarbons beyond combustion
 - Energy materials (lithium, vanadium, zircon, etc.)
 - Advanced manufacturing



Technology stage of development

Field Test / Pilot:

- Technology or innovation is ready to be field-tested in an operational environment.
- Scale-up of prototypes to representative pilot scale and subsequent in-field testing of pilot units.

Commercial Demonstration:

- Technology or innovation is approaching the final commercial product and representative systems have been built.
- Demonstration of near- or fully-commercial scale systems in an operational environment.

First-of-Kind Commercial Implementation:

- Technology is ready for first-of-kind commercial deployment.
- Design, construction, and operation of the technology in its final commercial form, with the intent to operate the technology for its full commercial life.



EXPRESSION OF INTEREST (EOI) STAGE



















Public Call for EOIs

E0I Submission

Expert Team Evaluation

Shortlist Decision

Decision Letter to Applicants

FULL PROJECT PROPOSAL (FPP) STAGE



FPP Submission



Oral Presentation



Expert Team Evaluation



Board Decision



Decision Letter to Applicants

















Progress

Reporting





Results

PROJECT EXECUTION STAGE













Sharing of

Submission and evaluation process



Timelines

Action	By whom	Timing
Expression of Interest Submission Deadline	Applicants	January 19, 2023
Expression of Interest Shortlist Notification	ERA	Early March 2023
Full Project Proposal Submission Deadline	Applicants	Late April 2023
Full Project Proposal Oral Presentation	Applicants	May 2023
Funding Decision Notification	ERA	June 2023



Outcomes reporting and knowledge sharing















Continuous process improvement

- Earlier start date for eligible cost sharing
- Shorter call timelines
- GHG quantification at FPP stage
- Simplified FPP budget template
- Further improvements to come



Preparing a successful submission

- Start now: http://eralberta.ca/apply-for-funding/
- Register on ERIMS: https://erims.outcome-plus.com/
- Read the guidelines documents
 - Call for Expressions of Interest
 - Eligible Expense and Cost Instructions
- Review the evaluation criteria:
 - Technology opportunity
 - GHG and cost benefits
 - Adoption potential
 - Project implementation plan



Preparing a successful submission

- Use clear language and address each point in template
- Provide complete responses
- Don't wait until the last day to submit
- Increase your visibility through our trusted partners
- Content reminders:
 - Our mandate centers around GHG reductions
 - Identify your project site
 - Broader benefits



Questions?



Wrap up and next steps

- Unanswered questions?
 - 1. Review the guidelines and supporting materials online, eralberta.ca
 - 2. Email remaining questions to applications@eralberta.ca
- Begin your submission today



Thank you!

