

Speaker introductions



Christophe Owttrim
Executive Director,
Technology and Innovation



Isabella Tarasco Manager, Technology Investment



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 Neil at nwedin@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:







TECHNOLOGY INNOVATION

\$935 MILLION TOTAL INVESTMENT



2777 PROJECTS

42.5

MILLION TONNES
OF CUMULATIVE
EMISSIONS
REDUCTION
BY 2030

117.6

MILLION TONNES
OF CUMULATIVE
EMISSIONS
REDUCTION
BY 2050

\$8.8 BILLION TOTAL PROJECT VALUE

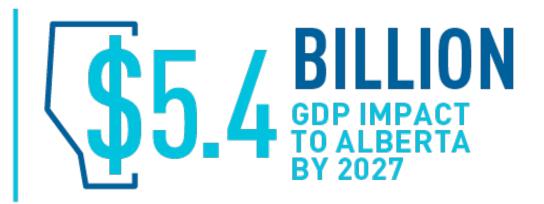


LEVERAGED FUNDING FROM PUBLIC AND PRIVATE INVESTORS

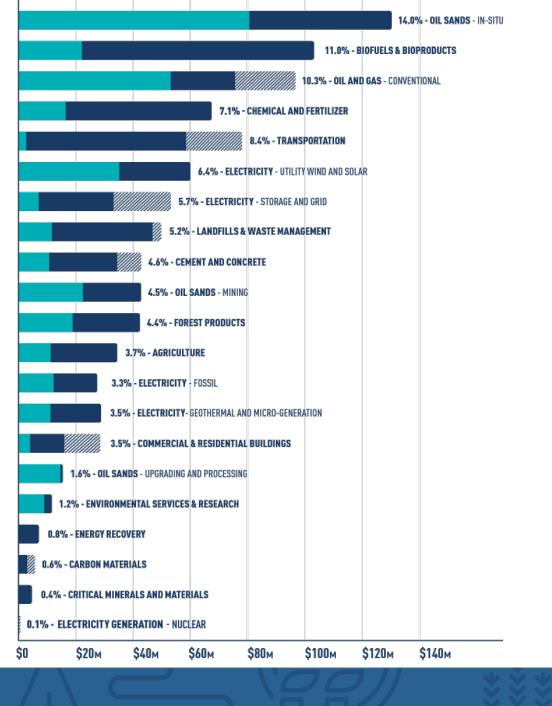


ALL PROJECTS

35,300 PERSON-YEAR 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

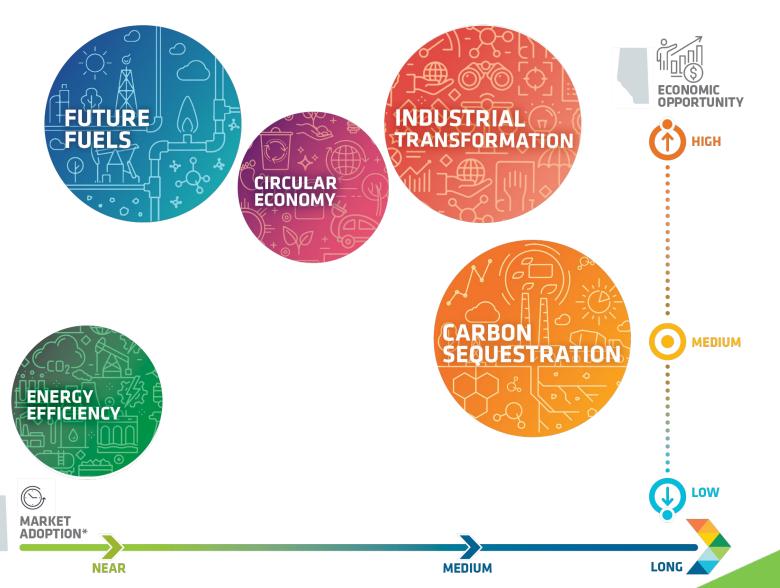
Projects have an executed contribution agreement. Funds have been committed.

CONTRACTING

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



Technology Roadmap







INDUSTRIAL TRANSFORMATION CHALLENGE



ACCELERATING HYDROGEN CHALLENGE



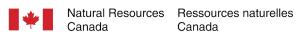
EMERGING INNOVATORS CHALLENGE



TRUSTED PARTNERS







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 \$500,000
- 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

- Onsite industrial clean heat production
- Electric boilers, industrial heat pumps, and other means of electrifying industrial heat
- Onsite thermal energy storage
- New processes, chemistries, etc. for cement, fertilizer, plastics, pulp and paper, oil and gas upgrading/refining, and other industries
- Novel oil and gas extraction
- Clean feedstocks for manufacturing and chemicals



Technology examples

- Transformative agricultural technologies and practices including technology like sensors or robotics, advanced fertilizers, and novel harvesting techniques and fertilizers
- Novel approaches for reduction/elimination of methane emissions
- Major industrial facility upgrades
- New industries and products, such as:
 - Hydrocarbons beyond combustion
 - Energy materials (supply chains for batteries, electrolyzers, supercapacitors, etc.)
 - Critical minerals (lithium, vanadium, etc.)



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

Submission and evaluation process

PROJECT EXECUTION STAGE























Work Plan **Finalization**

Contribution Agreement

Project Monitoring

Progress Reporting

Sharing of Results



Timelines

Action	By whom	Timing
Expression of Interest Submission Deadline	Applicants	June 21, 2024
Expression of Interest Shortlist Notification	ERA	Mid-August 2024
Full Project Proposal Submission Deadline	Applicants	October 2024
Full Project Proposal Oral Presentation	Applicants	Late November 2024
Funding Decision Notification	ERA	December 2024



Outcomes reporting and knowledge sharing

















OCTOBER 20-24, 2024

Calgary TELUS Convention Centre, AB, Canada



HOSTED BY:







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!

