

# ANNUAL REPORT

EMISSIONS  
REDUCTION  
ALBERTA



*Alberta* 

Cover Photo: Aqua Pure's fracking water recycling technology began its demonstration in Three Hills, AB in 2024-25.  
Inside Cover Photo: ERA committed \$3.7 million to Flash Forest in 2024-25 to evolve and advance its drone-based tree planting technology.

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## ACCOUNTABILITY STATEMENT

This review is documented as an annual accountability report and ensures that Emissions Reduction Alberta's (ERA) mandate is being fulfilled, its commitments in its three-year *Business Plan* are being executed, and it's delivering results in accordance with the Grant Agreement and Memorandum of Understanding in place with the Government of Alberta. All material economic, environmental, or fiscal implications, of which we are aware, have been considered in preparation of this report.

## DISCLAIMER

While ERA makes every effort to ensure claims related to emissions performance are accurate, it does not audit underlying information or verify all source data and is not responsible or liable for any environmental claims, environmental performance metrics, or any representations, statements, or claims regarding emissions or emissions reductions contained in this Annual Report, or any assumptions or methodologies underlying any such claims. All GHG reductions are estimates and are based on specific projects; significantly higher reductions are expected from market adoption.



# MESSAGE FROM THE CHAIR

# KELLY J. OGLE



As a trusted public funding agency respected for its rigorous and transparent approach, ERA creates new jobs and advances new technologies that are developed and deployed in Alberta and shared with Canada and the world. We foster collaboration and knowledge sharing. We support commercialization and competitiveness. And ultimately, we continue to make progress toward Alberta's and Canada's economic and environmental goals.

In our 16 years, we've never lost sight of what's going on around us. Staying competitive globally means adapting to economic, environmental, and technological shifts at home and abroad. Like Alberta's core industries, ERA is responsive to geopolitical activity around the world. That means making sure Alberta remains a viable place for investment.

Alberta can continue to do this by leveraging our abundant natural resources, our strong regulatory frameworks, and deep expertise in technology development. Promoting the province's growing innovation track record and entrepreneurial culture—especially its ability to get big things done—further positions the province as a prime destination for Canadian companies and international capital seeking stability, scalability, and long-term returns.

Case in point, this past year we celebrated Kuva Systems. Back in 2016, they had a proof of concept involving a laptop and propane tank set up on a back deck in Boston. Looking for support, a Google search led them to Alberta and a chance to apply for ERA funding. Less than a decade later, they've established operations in Alberta, commercialized their methane mitigation technology, and deployed it globally.

In 2025, Kuva was acquired by Sensirion Connected Solutions, a multi-national firm that is committed to continuing its Canadian operations and keeping its Kuva branding. This is ERA at its finest: attracting investment, derisking technology,

reducing emissions, cutting operational costs, and helping businesses grow globally while keeping their Alberta roots.

In closing, I'd like to share a quick comment about my colleagues. ERA's Board of Directors continues to deliver incredible leadership based on diverse talents and accomplishments in industry, academia, and government. They are crucial to guiding our uniquely structured organization. This year, we welcomed four new members with impressive backgrounds and expertise: Kevin Birn, Dale Swampy, Sarah Applebaum, and Dr. Monica Gattinger. We also honoured Céline Bak as she retired after three terms and nine years with ERA. We are grateful for Céline's near decade of support including her leadership as Chair of our Audit, Finance and Investment Committee.

These Board members complement the incredible efforts ERA's staff makes daily. On behalf of ERA's Board and staff, I am pleased to present our 2024-2025 Annual Report.

**KELLY J. OGLE**  
BOARD CHAIR, ERA



# MESSAGE FROM THE CEO

# JUSTIN RIEMER



Every day at ERA, we help keep Alberta’s industries competitive in a changing global economy by investing in the technologies to make that possible. Guided by transparency and integrity, we work closely with innovators, industry, and government to accelerate the development and adoption of solutions that cut costs, reduce emissions, and open new market opportunities.

Our funding programs provide the necessary derisking capital to support our entrepreneurs and innovators, small- and medium-sized businesses, industry giants, and municipalities. In 2024-25, we added \$148 million in approved funding to our portfolio, bringing our total committed investment over 16 years to \$953 million for 319 projects valued at \$10.4 billion. These projects are turning forestry waste into fuel, tackling methane emissions in oil and gas, recycling plastics, boosting Alberta’s industrial competitiveness, and so much more.

To keep momentum, we committed an additional \$138 million through the Industrial Transformation Challenge, Tailings Technology Challenge, Alberta Drilling Accelerator, and Clean Energy Transition Partnership (CETP). We also launched our \$50 million Strategic Energy Management for Industry (SEMI) program, a three-year initiative providing industrial and manufacturing facilities with knowledge, expertise, and training in energy management—not to mention funding for capital retrofits that will advance the uptake of commercialized technologies, some of which we helped derisk.

Just as important, we completed 25 projects this past year across Alberta. We helped advance next-generation carbon capture, field tested drone reforestation technology, and demonstrated the world’s first freight hydrogen-powered locomotives. I encourage you to explore our new interactive map and data portal on our website launched this past year. You’ll appreciate how easily you can access information on all of ERA’s projects, including where they are located, and the impact they’ve had or are expected to have.

As we adapt to new market conditions, ERA’s focus has expanded beyond greenhouse gas (GHG) emissions reduction to funding technologies with other environmental benefits: improved water management, soil remediation, and reduced air pollutants. This has generated a lot of new interest; in fact, our last Industrial Transformation funding call received a record number of applications for ERA.

While primarily known in Alberta as a funding agency, we are also convenors—facilitating conversations and sharing lessons to help innovators and industry leaders learn from others and collaborate. Nothing highlights this more than the 1,500 attendees from 47 countries who joined the world’s leading carbon capture, utilization, and storage conference (GHGT-17) in Calgary, which we co-hosted with IEAGHG. We also led the inaugural Bioenergy with Carbon Capture and Storage (BECCS) Leadership Summit in Banff, welcoming over 100 leaders from forestry, government, First Nations, carbon dioxide removal (CDR) buyers, and representatives from other sectors.

None of this work would be possible without the Government of Alberta’s Technology Innovation and Emissions Reduction (TIER) Regulation. This forward thinking approach allows ERA to provide financial support for innovators striving to drive system-wide change, ensuring that patient capital is available to derisk technology development and adoption.

I invite you to read our 2024-2025 Annual Report to learn more about ERA’s achievements and Alberta’s welcoming environment for innovators and industry.

**JUSTIN RIEMER**  
CEO, ERA



# ABOUT ERA

## MANDATE

Reduce emissions and support the competitiveness and growth of Alberta's economy by accelerating the development and adoption of innovative technology solutions.

## VISION

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

## CORE VALUES



## VALUE PROPOSITION

ERA provides funding to strengthen the competitiveness of industries in Alberta. These investments help innovators develop and demonstrate technologies that reduce emissions and enhance Alberta's environment and ecosystems.

These technologies will lower costs, improve competitiveness, and accelerate Alberta's transformation to a diversified economy with high environmental performance. ERA delivers results through a competitive, transparent, efficient, and outcomes-focused delivery model.

## STRATEGIC FUNDING

ERA receives a portion of the Government of Alberta's Technology Innovation Emissions Regulation (TIER) fund. TIER is at the core of emissions management in Alberta and serves as a framework that offers industrial facilities an opportunity to advance innovative approaches to reduce emissions and encourages investments that maintain competitiveness.

ERA also receives funding from Canada's federal government through Natural Resources Canada (NRCan), the Low Carbon Economy Leadership Fund (LCELF), and other federal programs to deliver targeted initiatives that support Alberta's priorities. This funding supports late-stage technology demonstration projects and energy efficiency programming.

## UNIQUE BUSINESS MODEL

While many jurisdictions have a mechanism to invest in clean technology, ERA's model is unique:

- It establishes a clear line of sight from the carbon price paid by industry under the TIER Regulation to investment in technologies needed to achieve the province's environmental and economic goals.
- Funding accelerates innovation by supporting technology adoption and commercialization through demonstration and first-of-kind deployment stages of development; incentives are also provided to support the deployment of commercially viable technologies.
- Non-dilutive\* grant funding enables ERA to accelerate the advancement of clean technology by sharing risk with industry and private funders through key development stages.
- A Delegated Administrative Organization (DAO) structure means ERA has no annual investment caps, can fund multi-year projects, carries funding over from year to year, and, if necessary, reinvests funds when projects do not progress.
- ERA requires a minimum 1:1 matching of its investments with private dollars. For projects funded to date, for every dollar invested by ERA, 5.8:1\*\* has been leveraged from public and private funders.

\*Non-dilutive funding is defined as funding that does not require giving up ownership or shares of the company or product.

\*\*To ensure accuracy of the leverage ratio, projects with high project costs are capped at \$1B as these are considered an outlier.

**“Alberta’s innovators are at the forefront of developing solutions to reduce emissions, generate jobs, and support the economy. Our investments through the TIER fund enable transformative change in the province’s industrial sectors and serve as a model for the world.”**

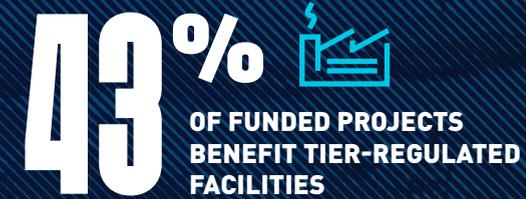
Rebecca Schulz, Minister of Environment and Protected Areas, Government of Alberta



Photo: Rebecca Schulz, Minister of Environment and Protected Areas, Government of Alberta

# PORTFOLIO IMPACT

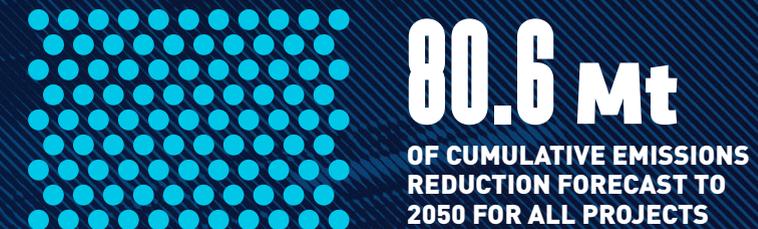
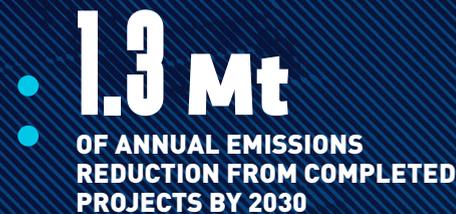
## TECHNOLOGY INNOVATION FUNDING



## ECONOMIC OUTCOMES



## ENVIRONMENTAL IMPACT



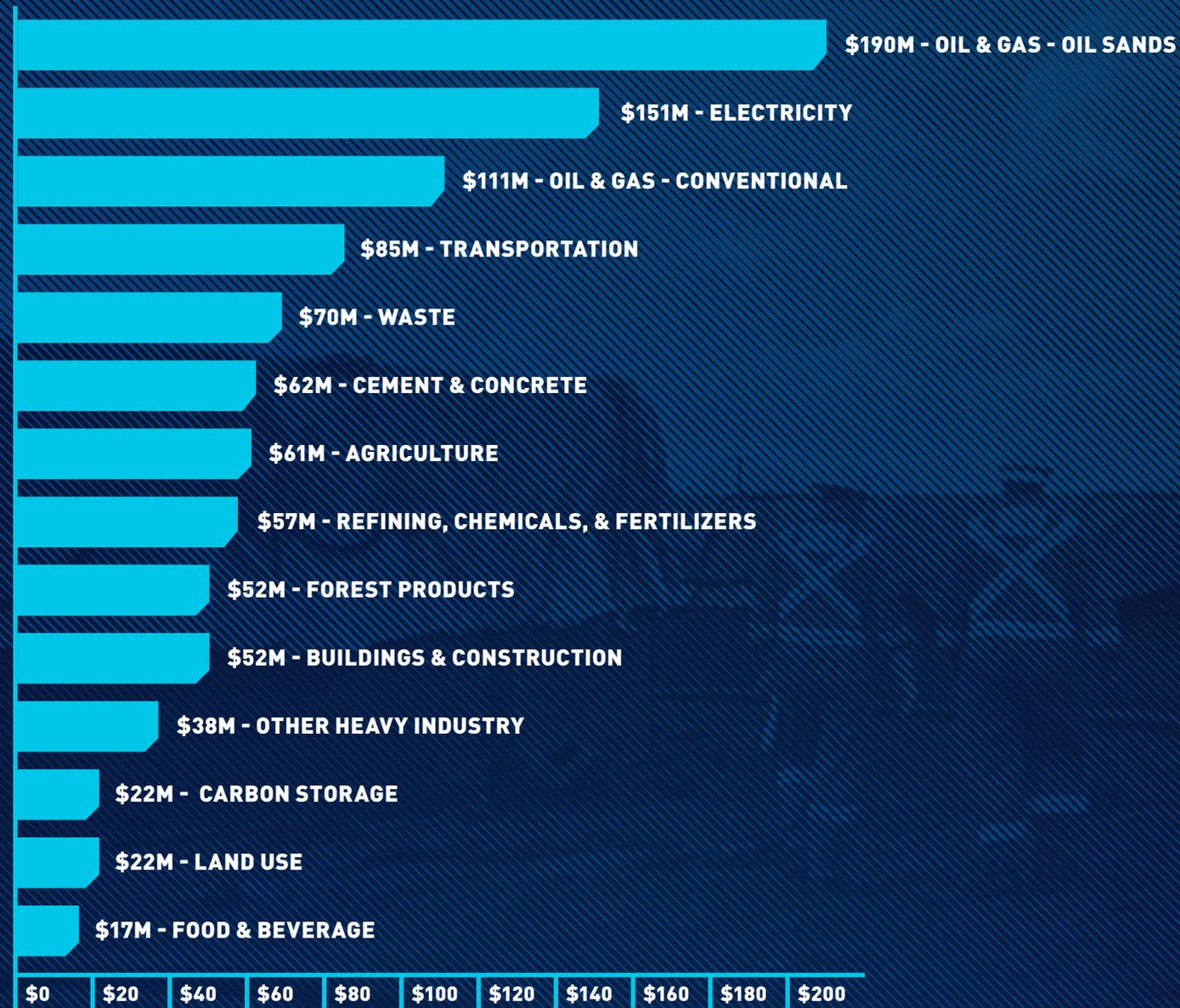
## EFFICIENCY INCENTIVE PROGRAMMING



Note: Data accurate as of September 22, 2025

\*\*\* To ensure accuracy of the leverage ratio, projects with high project costs are capped at \$1B as these are considered an outlier.

# DIVERSIFIED PORTFOLIO

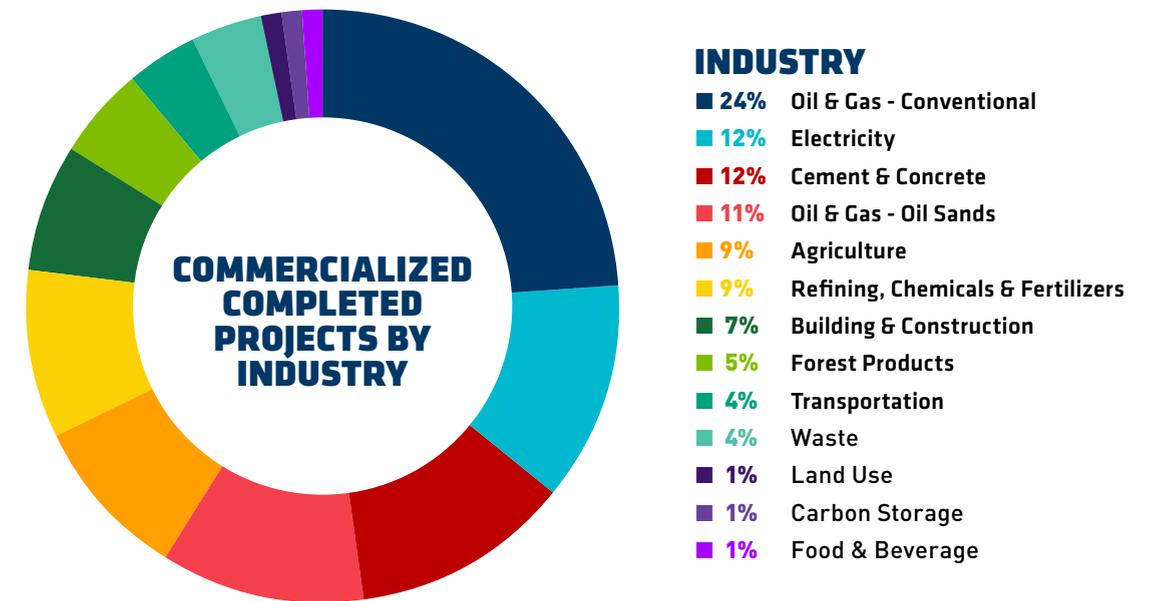


# ADVANCING TOWARDS COMMERCIALIZATION

**82%** OF COMPLETED PROJECTS INCREASED IN TECHNOLOGY READINESS LEVEL (TRL)



**56%** COMPLETED PROJECTS HAVE REACHED COMMERCIALIZATION



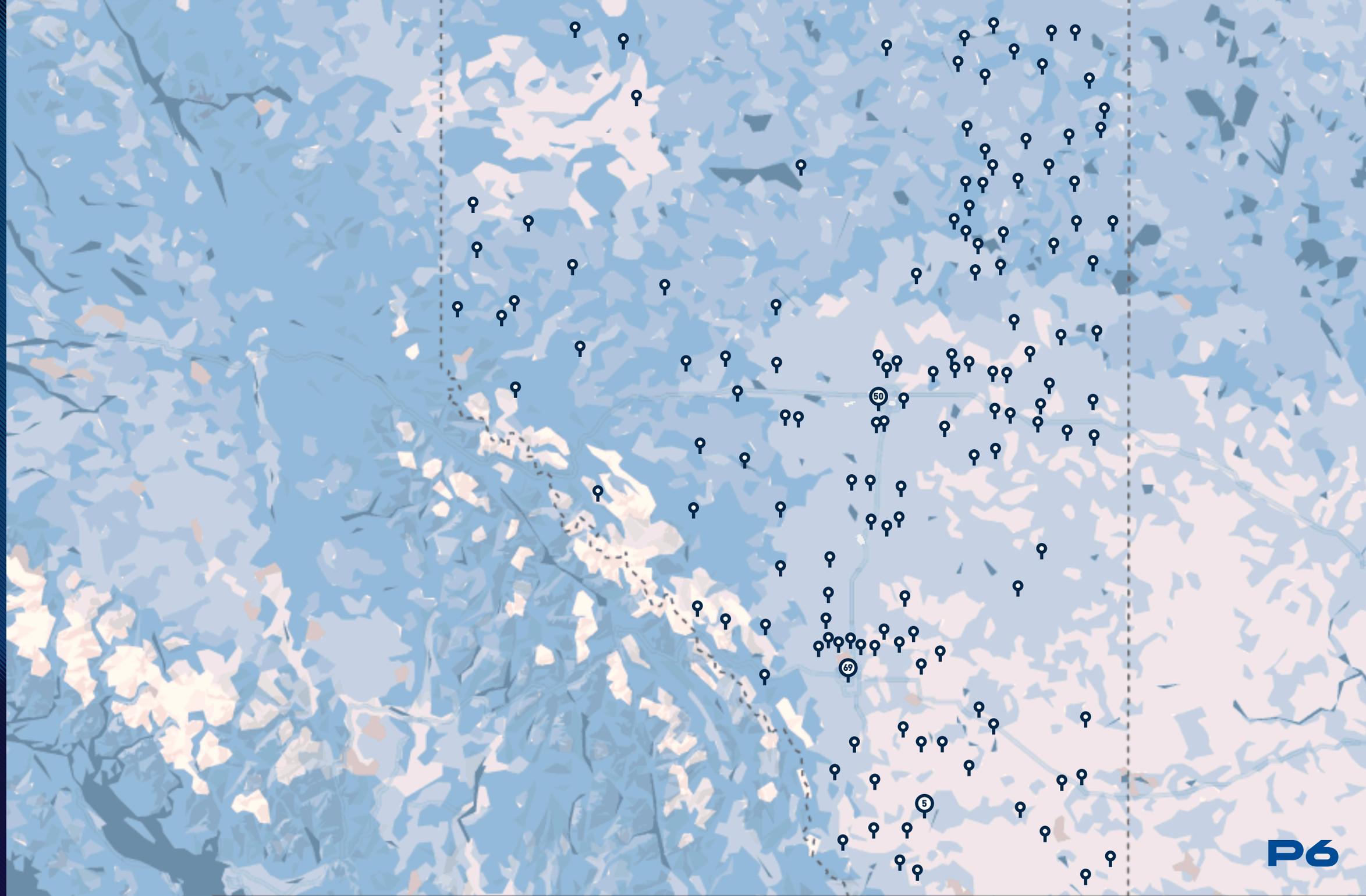
*Note: ERA considers a project commercialized if the technology is de-risked and commercially available, a commercial demonstration is successful, the technology reaches a TRL 9 or higher, it is successfully piloted and implemented, or the project is commercially installed.*

# MAP OF ERA-FUNDED PROJECTS

With the support of the Government of Alberta, Emissions Reductions Alberta has funded a total of 319 projects.

- 280 projects are located at specific sites across Alberta.
- 11 projects take place across multiple locations in Alberta and are not represented on the map.
- Some project locations represent proponent head offices, not project site locations.
- 28 demonstration projects are located outside Alberta; each has a demonstrable economic benefit to the province and a pathway to broader environmental impacts when commercialized in Alberta.

*Disclaimer: Project locations shown on this map are approximate and intended for illustrative purposes only. Pins do not represent exact geographic coordinates.*



# 2024-25 HIGHLIGHTS AT-A-GLANCE

 **\$148 MILLION** IN NEW APPROVED INVESTMENTS → **\$629 MILLION** IN TOTAL PROJECT VALUE

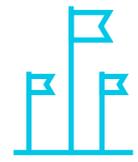
Launched the \$50 million **Strategic Energy Management for Industry (SEMI) program**



**\$138 MILLION** IN NEW FUNDING MADE AVAILABLE FOR THE **2025 > 2026** FISCAL YEAR

Co-hosted GHGT-17 with the IEA Greenhouse Gas R&D Programme (IEAGHG) with record attendance



 **45 NEW PROJECTS**  **25 COMPLETED PROJECTS**

Coordinated the inaugural **BECCS Leadership Summit**



## Appointed five new board members:



Sarah Applebaum



Kevin Birn



Stuart Cullum



Dr. Monica Gattinger



Dale Swampy

## Welcomed four new trusted partners:



# STRATEGIC PRIORITIES

ERA has three strategic priorities to deliver on its mandate and vision for Alberta. In 2024-25, in alignment with its *Business Plan*, ERA continued its focus on the following:

## 1. ACCELERATE TECHNOLOGY

Invest in derisking innovative technologies that improve the competitiveness of Alberta's industries while reducing emissions and enhancing the province's environment and ecosystems.

## 2. DRIVE COMMERCIALIZATION AND ADOPTION

Convene the right resources to accelerate the adoption of technology solutions that lead to economic growth and environmental sustainability.

## 3. MAXIMIZE IMPACT

Increase ERA's impact beyond technology support by sharing knowledge and striving for operational excellence.



Photo: Ceres Solutions completed the first demonstration of its sustainable mushroom production system in 2024-25.

# 1. ACCELERATE TECHNOLOGY

ERA identifies high-potential technologies where funding can accelerate commercialization and drive environmental sustainability and enhance the competitiveness of Alberta's industries. These investments are made through ERA's competitive funding calls and its Continuous Intake Program.

In 2024-2025, ERA announced \$148 million for over 45 projects worth a combined value of \$629 million. ERA also approved \$138 million in funding to be allocated in the next fiscal year through competitive funding opportunities. The following pages outline these investments.



Photo: ERA's Lab Services Incentive Program (LSIP) Pilot launched in 2024.



Photo: University of Calgary's PoMELO (Portable Methane Leak Observatory) project completed in 2024-25.

# NEW FUNDING MADE AVAILABLE IN 2024-25

## UP TO \$50 MILLION ANNOUNCED TO TACKLE OIL SANDS MINE WATER AND TAILINGS

In 2025, ERA committed up to \$50 million through its Tailings Technology Challenge to support the scale-up, pilot, demonstration, and deployment of technologies to help reduce and manage oil sands mine water and tailings.

The Tailings Technology Challenge aligns with the release of the Government of Alberta's *Oil Sands Mine Water Steering Committee recommendations* and reflects the province's commitment to engage with industry, Indigenous communities, and other governments to develop safe, evidence-based approaches to mine site closure and land reclamation.

Eligible projects include technologies for directly treating and remediating tailings and mine water, innovative methods to reduce waste generation, and solutions that recover value from oil sands mine water. Projects must demonstrate potential to mitigate long-term environmental liabilities, expedite reclamation, and reduce clean-up costs. Successful applicants will receive between \$1 million and \$15 million. Projects will be announced in 2026.

**“Innovation has always played an instrumental role in the oil sands and continues to be an area of focus. Oil sands companies are collaborating and investing to advance environmental technologies, including many focused on mine water and tailings management. We’re excited to see this initiative, seeking to explore technology development in an area that’s important to all Albertans.”**

*Kendall Dilling, President, Pathways Alliance*



**TAILINGS  
TECHNOLOGY  
CHALLENGE**

## \$65 MILLION COMMITTED TO ENHANCE ALBERTA'S GLOBAL COMPETITIVENESS

In Spring 2025, ERA launched its third annual Industrial Transformation Challenge, a \$65 million funding competition to improve the economic competitiveness and environmental sustainability of Alberta's industrial and natural resource sectors. Initially launched in 2022, the yearly funding call focuses on scale-up, pilot, demonstration, and first-of-kind commercial projects with solutions for Alberta's energy-intensive industries, including agriculture, forestry, manufacturing industries, electricity, oil and gas, and more.

New for this year, projects and technologies with environmental benefits beyond emissions reduction were invited to apply, including improved water management, soil remediation, reduced land use or disturbance, and the reduction of air pollutants. Projects will be announced in 2026.

Examples of eligible technologies include new ways of producing fuels, breakthrough industrial process improvements, water and land management technologies, major industrial facility efficiency upgrades, agricultural and forestry innovation, improved processes for bitumen extraction, oil and gas processing and refining, and industrial fuel switching and electrification, along with much more. This competition has received a high level of interest and a record number of applications.

**“Funding provided by the Government of Alberta and ERA in such programs as the Industrial Transformation Challenge, is critical to supporting Alberta industry on its path towards innovation and sustainability.”**

*Franz X. Spachtholz, President and CEO, Baymag Inc.*



**INDUSTRIAL  
TRANSFORMATION  
CHALLENGE**



Photo: ERA committed \$10 million for Alberta Newprint Company to conduct best-in-class energy efficiency upgrades.

## ERA CONTRIBUTES TO A \$2.4 MILLION DECENTRALISED ENERGY INITIATIVE

In 2024, ERA announced \$100,000 in support for Decentralised Energy Canada’s and the City of Medicine Hat’s Energy Innovation Challenge, a three-year program designed to invest approximately \$2.4 million in small businesses to help them overcome commercialization obstacles and advance their decentralised energy solutions to the market.

In December 2024, Arcus Power and Edgecom Energy were announced as the first two winners of the Energy Innovation Challenge.

- **Arcus Power** is an Alberta-based Smart-Grid power market solutions provider that offers SaaS based software products to generators and utilities, industrial customers, and financial users. Their project will pilot a distributed energy storage planning functionality that will be integrated with Arcus Power’s existing SaaS platform.
- **Edgecom Energy** offers a comprehensive Energy Management Solution suite that integrates AI and the Internet of Things (IoT). Edgecom will install sensors at eight City of Medicine Hat facilities to monitor energy usage and report data into their building management system.

## INVESTING \$3 MILLION IN INTERNATIONAL CLEAN TECHNOLOGY FUNDING OPPORTUNITY

ERA committed up to \$3 million to the Clean Energy Transition Partnership’s (CETP) Joint Call 2024. ERA funding will focus on advancing technology solutions for renewable fuels and hydrogen, as well as carbon capture, utilization and storage (CCUS), with strong potential for commercialization in Alberta.

CETP pools funds from several countries for joint research, technological development, and innovation programming to accelerate a broad variety of technologies and system solutions. Joint Call 2024 is the second co-funded call under CETP. The initiative enables 50 national and regional funding partners from 30 countries to align on priorities and co-fund annual calls until 2027. ERA joined CETP in January 2022.



## ALBERTA COMMITS \$20 MILLION TO ERA TO HELP ALBERTA’S DRILLING EXPERTS DEVELOP NEW TECHNOLOGIES

To support advanced drilling technologies, Alberta’s government committed \$20 million to launch phase one of the Alberta Drilling Accelerator program. Delivered through ERA, this funding will help advance new and emerging technologies, reduce emissions, and increase responsible energy production around the world.

This new funding program will help speed up the development of geothermal, helium, critical minerals, carbon capture, utilization and storage, and other technologies and commodities that rely on Alberta’s world-class drilling expertise, further establishing Alberta’s global leadership in providing affordable, reliable, responsibly produced energy. The ERA-funded program will launch in Fall 2025.



Photo: ERA committed \$600,000 to Aqua Pure Technologies in 2024-25 to improve water recycling in the oil and gas industry.

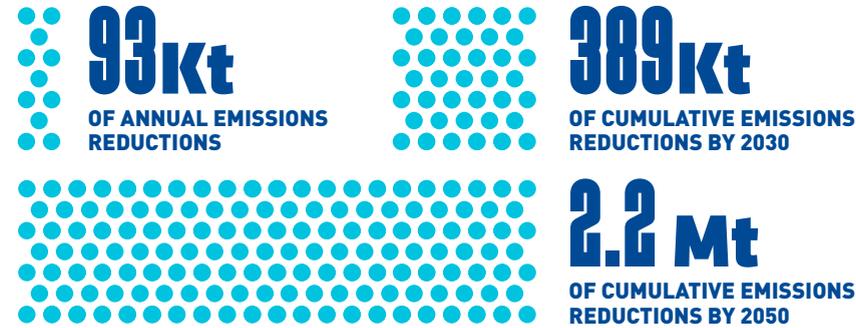
# NEW APPROVED INVESTMENTS IN 2024-25

## INVESTING NEARLY \$46 MILLION IN 12 PROJECTS TO REDUCE EMISSIONS AND INCREASE THE COMPETITIVENESS OF ALBERTA'S INDUSTRIES

In Winter 2024, ERA invested \$46 million in 11 projects worth \$185 million in public and private investment through ERA's second annual Industrial Transformation Challenge. Funding ranges from \$700 thousand to \$10 million for projects that have the potential to dramatically lower costs, reduce emissions, create jobs, and improve the economic competitiveness of Alberta's industrial and natural resource sectors: oil and gas, concrete and cement, pulp and paper, forestry, biotechnology, and municipal wastewater treatment. All projects will be piloted, demonstrated, or deployed in Alberta.

**"Alberta is built on rich natural resources and a spirit of resilience, proud of its fertile farmland and forests. With the generous support of ERA, Flash Forest is harnessing Alberta's spirit of innovation to revolutionize the forestry sector. We're going to use Alberta as a launch pad for technology that will be mirrored worldwide."**

*Cameron Jones, COO, Flash Forest Inc.*



**INDUSTRIAL TRANSFORMATION CHALLENGE**



Photo: Heather Stephens, ERA's Chief Operating Officer, alongside Minister Schulz, announces Industrial Transformation Challenge projects.

**AIRMARKET**

ERA FUNDING: \$2,300,000  
PROJECT COST: \$5,600,000

Alberta (various)

Enable AI-equipped drones via infrastructure for long-range operations to support wildfire monitoring, emergency response, and other use-cases.

**ALBERTA NEWSPRINT COMPANY**

ERA FUNDING: \$10,000,000  
PROJECT COST: \$25,600,000

Whitecourt, AB

Conduct best-in-class energy efficiency upgrades to deliver cost savings and emissions reductions while producing new, higher-grade products and improving the mill's competitiveness.

**CITY OF CALGARY**

ERA FUNDING: \$7,450,000  
PROJECT COST: \$14,900,000

Calgary, AB

Install a first-in-Alberta, second-in-Canada wastewater heat recovery system to capture and utilize thermal energy at the Fish Creek Wastewater Treatment Plant.

**CSV MIDSTREAM SOLUTIONS CORP.**

ERA FUNDING: \$1,670,000  
PROJECT COST: \$9,500,000

Greenview County, AB

Implement an industrial heat pump, the first at a natural gas processing facility in Alberta, to capture waste heat and upgrade it for use onsite to increase efficiency.

**DIW BUILDINGS & LAND CORP.**

ERA FUNDING: \$8,400,000  
PROJECT COST: \$85,300,000

Blackfalds, AB

Advance a first-in-Alberta approach to increase the province's milk processing capacity by developing a concentrated milk product that can be transported with less energy.

**FLASH FOREST INC.**

ERA FUNDING: \$3,700,000  
PROJECT COST: \$7,400,000

Alberta (various)

Evolve and advance drone-based tree planting technology by implementing AI-based site selection software, and integrating additional tree species to maximize carbon sequestration.

**FUTURE FIELDS CELLULAR AGRICULTURE AND RESEARCH LTD.**

ERA FUNDING: \$4,090,000  
PROJECT COST: \$17,100,000

Edmonton, AB

Develop a technology to produce proteins for pharmaceuticals and other applications without the need for costly, energy-intensive, and inefficient bioreactors.

**LAFARGE CANADA INC.**

ERA FUNDING: \$4,000,000  
PROJECT COST: \$8,000,000

Exshaw, AB

Use calcined clay as a supplementary material in cement products, displacing a portion of emissions-intensive clinker production and lowering the overall emission intensity of Portland cement while maintaining the strength of the final material.

**NANOWATER TECH INC.**

ERA FUNDING: \$1,000,000  
PROJECT COST: \$2,700,000

Fort McMurray, AB

Pilot a made-in-Alberta customized nanofilter technology to improve the treatment of produced water in steam-assisted gravity drainage (SAGD) operations to reduce costs, energy use, and emissions.

**TS-NANO CANADA INC.**

ERA FUNDING: \$700,000  
PROJECT COST: \$1,500,000

Lloydminster, AB

Validate a new nano-modified polymer to increase the longevity and effectiveness of sealing oil and gas wells and reduce the need to service and re-seal, improving operational efficiency and reducing potential for methane leaks.

**VL ENERGY INC.**

ERA FUNDING: \$2,240,000  
PROJECT COST: \$7,400,000

Alberta (various)

Install and demonstrate an advanced monitoring system that uses machine learning to monitor, predict, and reduce emissions in combustion equipment, such as combined heat and power systems.



**INDUSTRIAL  
TRANSFORMATION  
CHALLENGE**

# COMMITTING \$49 MILLION TO SHAPE THE CIRCULAR ECONOMY AND CREATE LOW EMISSIONS PRODUCTS

ERA committed \$49 million to advance a broad range of technologies and solutions to help accelerate the circular economy, create economic opportunity, and improve the environment. In total, 18 projects valued at \$199 million in public and private investment are receiving funding through ERA's Advanced Materials Challenge. Funding will increase the competitiveness of Alberta's manufacturing and resource sectors, grow new provincial industries with export potential, and reduce the emission footprint of material supply chains.

**"ERA's support in developing higher performing recycled materials reflects the Government of Alberta's confidence in homegrown innovation. NOVA Chemicals has a proud legacy of advancing technologies that reshape plastics for a better future, and we are pleased to receive this funding as we demonstrate how Alberta ingenuity can deliver sustainable solutions with global impact."**

*Rocky Vermani, SVP, Innovation, Sustainability, & Strategy, NOVA Chemicals*

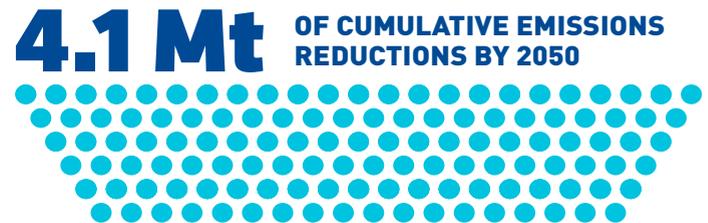


Photo: Justin Riemer, ERA's CEO, alongside Minister Schulz, announcing Adv...

### AQUA-CELL ENERGY INC.

ERA FUNDING: \$850,000  
PROJECT VALUE: \$1,900,000

Alberta (various)

Pilot a saltwater flow battery using a novel electrodialysis membrane and proprietary electrolyte. The project includes constructing and installing a prototype system, validating performance, and piloting applications for grid reliability and remote applications.

### CARBOMAT INC.

ERA FUNDING: \$1,050,000  
PROJECT COST: \$2,100,000

Calgary, AB

Scale up production of battery anode materials derived from asphaltenes, a byproduct of bitumen upgrading.

### ATLAS POWER TECHNOLOGIES INC.

ERA FUNDING: \$1,450,000  
PROJECT COST: \$6,500,000

Nisku, AB

Establish a pilot facility to produce high-grade activated carbon from petroleum coke for supercapacitor electrodes for electricity grid-enhancing applications.

### CARBONOVA CORPORATION

ERA FUNDING: \$4,380,000  
PROJECT COST: \$12,500,000

Calgary, AB

Develop a process to produce carbon nanofibers from various carbon-rich feedstocks, culminating with the design, construction, and operation of commercial units at three different scales.

### BACKROADS RECLAMATION

ERA FUNDING: \$1,980,000  
PROJECT COST: \$4,000,000

Adrossan, AB

Establish Alberta's first integrated facility to recover and convert construction, demolition, and renovation wood waste into high-value building materials.

### CIELO CARBON SOLUTIONS

ERA FUNDING: \$2,100,000  
PROJECT COST: \$4,200,000

Edson, AB

Develop an advanced solid sorbent absorption carbon capture technology and pilot it at Tourmaline's Banshee gas site to validate performance and demonstrate integration.

### BIOOILSOLV

ERA FUNDING: \$4,600,000  
PROJECT COST: \$12,400,000

Alberta (various)

Develop a biomass-derived solvent for in-situ oil sands extraction using solvent-assisted SAGD, with testing conducted in collaboration with Imperial Oil and other industry partners.

### CURTIS CONSTRUCTION

ERA FUNDING: \$2,500,000  
PROJECT COST: \$10,900,000

Sherwood Park, AB

Pilot Alberta's first agricultural recycling infrastructure for polypropylene plastics using a water-based cleaning system and a mechanical recycling process.



Photo: ERA committed \$1.98 million to Backroads Reclamation in 2024-25.



Photo: ERA committed \$4.38 million to Carbonova Corporation in 2024-25.



ADVANCED MATERIALS CHALLENGE

### HUGHES ENERGY, LLC

ERA FUNDING: \$5,000,000  
PROJECT COST: \$11,990,000

Edmonton, AB

Convert municipal solid waste into fiber for bioproducts by advancing a pilot production facility and product validation with the University of Calgary.

### MILNER POWER II INC.

ERA FUNDING: \$5,000,000  
PROJECT VALUE: \$36,500,000

Grande Cache, AB

Recover and process almost 3 million tonnes of stored fly ash into high-grade supplementary cement-like material.

### NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY

ERA FUNDING: \$450,000  
PROJECT COST: \$900,000

Edmonton, AB

Build a commercial unit to produce recycled asphalt and shingle pavers from construction waste.

### NOVA CHEMICALS CORPORATION

ERA FUNDING: \$4,670,000  
PROJECT COST: \$9,300,000

Calgary, AB

Develop advanced compounding techniques to improve the quality and adoption potential of recycled polyethylene to enable commercial use in various product lines without compromising performance or specifications, significantly contributing to plastics circularity.

### PLASCRED CIRCULAR INNOVATIONS

ERA FUNDING: \$5,000,000  
PROJECT COST: \$25,400,000

Fort Saskatchewan, AB

Advance a commercial-scale pyrolysis plant to convert plastic waste into circular naphtha for diluting crude oil by completing a FEED study, facility construction, and validation of the technology.

### PRO-PIPE SERVICE AND SALES LTD.

ERA FUNDING: \$1,000,000  
PROJECT COST: \$4,200,000

Nisku, AB

Produce insulated drill pipe technology that utilizes advanced materials to minimize heat loss while surviving challenging pressures and temperatures associated with ultra-deep geothermal drilling.

### RANGOLI SURFACES INC. (POLYCO INC. TRADE NAME)

ERA FUNDING: \$5,000,000  
PROJECT COST: \$45,300,000

Balzac, AB

Commercialize a flooring product produced from Alberta polypropylene to replace imported vinyl flooring materials by establishing a manufacturing facility, validating product performance, optimizing production, and initiating market entry by 2026.

### SEE02 ENERGY INC.

ERA FUNDING: \$250,000  
PROJECT COST: \$500,000

Calgary, AB

Develop a reversible solid oxide fuel cell capable of generating electricity from fuel or producing fuel from electricity, including material selection, production, manufacturing integration, and pilot testing.

### SHERRITT INTERNATIONAL CORPORATION

ERA FUNDING: \$2,420,000  
PROJECT COST: \$7,200,000

Fort Saskatchewan, AB

Finalize the development of a process to refine Mixed Hydroxide Precipitate into battery-grade nickel and cobalt sulphates, including testing, process development, and pilot demonstration to progress the design of a full-scale commercial plant.

### TERRAVERDAE BIOWORKS

ERA FUNDING: \$1,250,000  
PROJECT COST: \$2,800,000

Edmonton, AB

Scale production of biodegradable biopolymers to displace nonrecyclable options currently used in dyes, films, and more.



**ADVANCED MATERIALS CHALLENGE**



Photo: ERA committed \$4.67 million to Nova Chemicals Corporation for a circular plastics project.

## CONTINUOUS INTAKE PROGRAM SUPPORTS HIGH-POTENTIAL AND STRATEGICALLY IMPORTANT PROJECTS

While most of ERA's funding is distributed through competitive funding calls, projects are also considered through the Continuous Intake Program. At the core to the Continuous Intake Program is the referral-based Partnership Intake Program that allows ERA to evaluate proposed projects referred by Trusted Partners, organizations with rigorous, fair, and transparent processes comparable to ERA's.

The Continuous Intake Program also allows for the re-intake of previously advanced projects that were paused or canceled, providing flexibility to reconsider funding for high-potential opportunities once barriers are resolved. It also enables follow-on funding for previously supported technologies, ensuring continued progress and momentum in their development.

In 2024-25, ERA announced \$66 million to 15 projects worth \$303 million through its Continuous Intake Program.



### AMBYINT INC.

ERA FUNDING: \$4,080,000  
PROJECT COST: \$15,100,000

Calgary, AB

Upgrade an AI-driven platform with advanced machine learning and reinforcement learning algorithms to cut methane venting by up to 90 per cent.

### CACHE POWER CORP.

ERA FUNDING: \$5,000,000  
PROJECT COST: \$15,800,000

La Corey, AB

Conduct a series of studies and pre-construction activities to advance the Marguerite Lake Compressed Air Energy Storage Demonstration Project.

### AQUA PURE TECHNOLOGIES

ERA FUNDING: \$600,000  
PROJECT COST: \$1,500,000

Three Hills, AB

Demonstrate the innovative PROH2O® ultra-filtration technology to improve water recycling in the oil and gas industry.

### CANADIAN NATURAL RESOURCES LIMITED

ERA FUNDING: \$1,080,000  
PROJECT COST: \$3,200,000

Kirby North SAGD operations, AB

Test a chemical additive that will make heavy oil and bitumen flow better in SAGD operations.



Photo: ERA committed \$4 million for Ambyint Inc. to upgrade its AI-powered platform for the oil and gas industry.



Photo: ERA committed \$1.17 million to Canadian Natural Resources Limited in 2024-25 to test a chemical additive to make heavy oil and bitumen flow better in SAGD operations.

## CARBON MANAGEMENT CANADA INC.

ERA FUNDING: \$3,780,000  
PROJECT COST: \$9,400,000

Newell County, AB

Develop a semi-continuous systems for monitoring, measurement and verification of carbon dioxide geological storage.

## DEEP SKY LABS

ERA FUNDING: \$5,000,000  
PROJECT COST: \$39,200,000

Innisfail, AB

Design, build, and operate the world's first direct air capture innovation and commercialization centre supporting four leading technology providers. Captured carbon will be transported by truck to an approved storage facility.

## EXIMIUS ENVIRONMENTAL SOLUTIONS

ERA FUNDING: \$740,000  
PROJECT COST: \$1,500,000

Calgary, AB

Advance the VelRay X™ system that filters out tiny particles from the water used during oil extraction processes to make it more suitable to reuse, reducing the need for freshwater.

## FARE VOSTRO ENERGY SOLUTIONS INC.

ERA FUNDING: \$7,000,000  
PROJECT COST: \$16,200,000

Calgary, AB

Demonstrate the functionality and value of a Grid Interactive Microgrid System (GIMS) to monitor and control energy-consuming loads in a warehouse facility.

## FUTERA POWER CORP.

ERA FUNDING \$5,000,000  
PROJECT COST IS \$15,000,000

Sundre, AB

Efficiently extract geothermal energy from both new and repurposed wells, offering a scalable, low-impact solution to expand clean energy across Alberta and beyond.

## HYDROGEN CANADA CORP.

ERA FUNDING: \$3,000,000  
PROJECT COST: \$60,000,000

Strathcona County, AB

Undertake front-end engineering design (FEED) work comprised of a series of studies to advance Hydrogen Canada's world scale blue hydrogen/ammonia production facility towards final investment decision.

## LITHIUMBANK RESOURCES CORP.

ERA FUNDING: \$3,900,000  
PROJECT COST: \$10,600,000

Valleyview, AB

Advance lithium resource development via reservoir modelling and brine characterization, and conduct a feasibility study to assesses a modular approach to lithium production.

## MARINER PARTNERS INC.

ERA FUNDING: \$1,130,000  
PROJECT COST: \$4,200,000

Alberta (various)

Demonstrate predictive control software to reduce electricity consumption, water use, and emissions associated with chilled water plants used for space cooling in large buildings and process cooling in manufacturing facilities.



## CONTINUOUS INTAKE PROGRAM



Photo: ERA committed \$5 million to Deep Sky Labs in 2024-25.  
Photo: ERA committed \$3.78 million for Carbon Management Canada to develop its carbon storage technology.

## PEACE REGIONAL WASTE MANAGEMENT COMPANY

ERA FUNDING: \$5,000,000  
PROJECT COST: \$23,000,000

### Peace River, AB

Expand a waste-to-energy gasification technology from pilot to full capital project in able address the rapid over-filling of several municipal landfills in the Peace Region while producing carbon-negative energy.

## TOWN OF CARDSTON

ERA FUNDING: \$5,000,000  
PROJECT COST: \$18,200,000

### Cardston, AB

Upgrade a municipal wastewater treatment system to an advanced Membrane Aerobic Biofilm Reactor (MABR) technology to demonstrate the viability and benefits for small municipalities.

# CONTINUOUS INTAKE PROGRAM

## SENSORUP INC.

ERA FUNDING: \$3,000,000  
PROJECT COST: \$12,400,000

### Calgary, AB

Develop the world's first open-standard software platform that uses AI to reconcile methane emissions data from multiple detection methods.



Photo: ERA committed \$1.1 million to Mariner Partners Inc. in 2024-25.

## FOUR NEW TRUSTED PARTNERSHIPS SIGNED

Partnerships are central to ERA's success and critical to delivering on its commitment to drive commercialization. Supporting the Partnership Intake Program, ERA's Trusted Partners allow ERA to leverage funds and due diligence, share risk, and reduce administrative burden for applicants. ERA works with strategic trusted partnerships in Alberta, with the federal government, and across the country where appropriate.

In 2024-25, ERA welcomed four organizations as our newest Trusted Partners:

- **Genome Alberta** is a publicly funded not-for-profit that invests in large-scale genomics research and technology development. With a strong focus on innovation, the organization supports genomics-enabled solutions across key sectors including health, agriculture, energy, forestry, and more.
- **Petroleum Technology Alliance of Canada (PTAC)** is a not-for-profit association dedicated to managing and facilitating innovation, cooperative research, technology advancement, demonstration, and implementation for a responsible Canadian hydrocarbon energy industry.
- **NorthX Climate Tech (formerly BC Centre for Innovation and Clean Energy)** invests in hard tech solutions that reduce emissions, transform industries, and support long-term economic prosperity. By connecting innovators, investors, and sectors, NorthX Climate Tech helps scale technologies that deliver decarbonization and economic growth.
- **Results Driven Agriculture Research (RDAR)** targets strategic investments in producer-led, results-driven agriculture research to power the competitiveness, profitability, productivity and sustainability of agriculture in Alberta. RDAR manages over 400 projects that increase farm cash receipts, promote value-added investments, and generate employment opportunities across the industry.



ERA is a key delivery partner of the Government of Alberta's TIER fund.



Natural Resources Canada

Ressources naturelles Canada



**SSRIA**  
SMART SUSTAINABLE RESILIENT  
INFRASTRUCTURE ASSOCIATION



**PTAC**  
PETROLEUM TECHNOLOGY ALLIANCE CANADA



# 2. DRIVE COMMERCIALIZATION AND ADOPTION

ERA works closely with Alberta's innovation network to help speed up the adoption of new technologies—locally, nationally, and globally—and strengthen internal expertise in energy management in organizations.

Beyond providing funding and technical expertise, ERA plays a unique role in bringing together large industry, entrepreneurs, small- and medium-sized enterprises, post secondary institutions, and resources from the larger innovation community to support the successful launch and scale-up of innovative technologies.

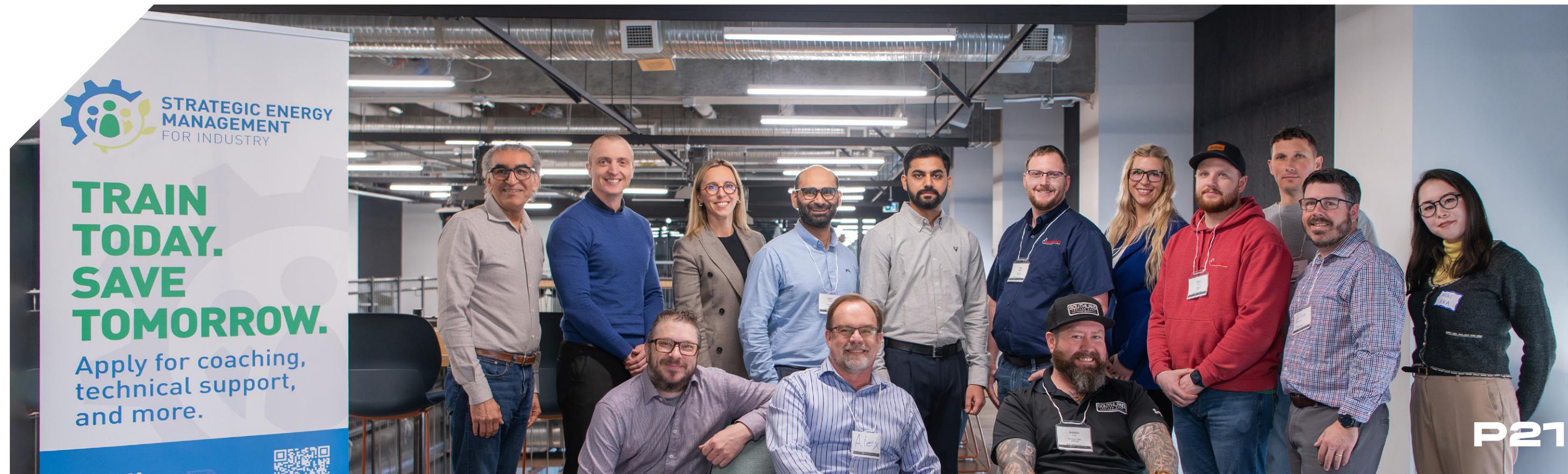


Photo: Participants take part in a Strategic Energy Management training as part of the SEMI program.

# NEW \$50 MILLION PROGRAM SUPPORTS ENERGY MANAGEMENT IN ALBERTA'S INDUSTRIAL AND MANUFACTURING FACILITIES

In October 2024, ERA announced a \$50 million commitment from the Government of Alberta and Natural Resources Canada to a new Strategic Energy Management for Industry (SEMI) program. SEMI helps participants increase profitability by reducing energy costs, growing organizational skills and capacity building, and helping cover the cost of capital retrofits.

Participating organizations receive an analysis of their energy use and recommendations for services to improve their energy management. This includes support for strategic energy management programming, implementing energy management information systems, and capital retrofits.

Eligible industrial sectors include agriculture, forestry, mining, quarrying, oil and gas extraction, utilities, construction, manufacturing, transportation, waste management, and more. Facilities must be owned or leased in Alberta and have operated for at least one year. SEMI ends on March 31, 2027.

This \$50 million program helps the province's industrial and manufacturing sectors increase competitiveness, improve energy efficiency, and reduce greenhouse gas emissions.



## AT THE TIME OF THIS REPORT:



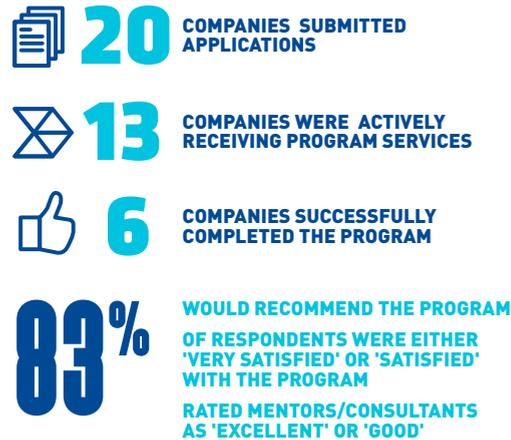
Photo: Parminder Sandhu, Managing Director of Eneriva, speaks at a Strategic Energy Management training session.

Photo: Harbour Environmental, signed up for ERA's SEMI program in 2024-25.

## SUPPORTING ENTREPRENEURS TO COMPLETE PROJECTS, COMMERCIALIZE TECHNOLOGIES, AND GROW THEIR COMPANIES

ERA provides mentorship support to its funded small- and medium-sized enterprises (SMEs) through the new *Innovator Support Services* program. This free offering enables access to expert mentors and service providers who provide advice and assistance with challenges such as financial management, human resource strategies, market fit and go-to-market strategies, business model scalability, product development, intellectual property, regulatory compliance, and exporting. Eligible companies can access up to 60 hours of mentorship and support from selected service providers—at no cost to the SME.

At the time of this report:



**“The Innovator Support Services program has been very helpful as we proceed with our raise and growing our company. We can confidently show where we are headed, and ensure we have a plan to put the right people in place.”**

*Carolyn Lemoine, VP Marketing and Communications, Director of Sustainability, Sultech Global Innovation Corp.*

## PILOT PROGRAM TO IMPROVE ACCESS TO LABS FOR EARLY-STAGE TECHNOLOGY DEVELOPERS

In December 2024, the new Lab Services Incentive Program Pilot (LSIP) was launched with \$1 million in funding. LSIP aims to improve collaboration and access to lab services for early-stage clean technology developers in Alberta. It's designed to provide easier access, greater efficiency, and enhanced affordability when it comes to engaging with post-secondary research institutions in Alberta.

Incentives are provided to support services offered by participating post-secondary research institutions to Alberta-based, for-profit enterprises with no more than 499 employees. Eligible activities include testing, validating, characterizing, or otherwise advancing elements of an innovative technology solution. The three participating post secondary institutions are the University of Alberta, the University of Calgary, and the University of Lethbridge.

Under the program, a project can receive 60 per cent of the nominal project cost, up to a maximum of \$60,000. The program has a continuous intake structure until December 31, 2025, or whenever funds are depleted.

At the time of this report:



**“Alberta has the world’s best energy research institutions. As start-ups and venture capital chase new ways to get tech to market, the Lab Services Incentive Program Pilot supercharges Alberta’s position as a global energy innovation leader. It fosters entrepreneurship with researchers, empowers new technology, and attracts venture investment into to Alberta.”**

*Kevin Krausert, CEO and Co-founder, Avatar Innovations*

## ERA CLEAN FUEL REGULATIONS COMPLIANCE FUND CONFIRMED

ERA’s Clean Fuel Regulations Compliance Fund was registered as a compliance fund under Canada’s Clean Fuel Regulations. This is a compliance option under the regulations for primary fuel suppliers who may choose to contribute up to 10% of their annual carbon intensity reduction requirements to an emissions reduction program. These funds will be managed by ERA and invested in projects that deliver outcomes aligned with the regulation. Programming will be announced in Fall 2025.



Photo: Researcher at University of Calgary's Institutional Infrastructure for Innovation (I<sup>3</sup>), formerly known as I<sup>2</sup>I, CERC Lab.

# 3. MAXIMIZE IMPACT

ERA ensures TIER funds are used efficiently by sharing knowledge and insights from funded projects to help drive wider adoption and scale-up of successful technologies. Lessons learned are built into future funding opportunities to keep improving outcomes.

Working alongside the Government of Alberta, ERA is helping position the province as a leader in innovation, a responsible environmental steward, and a top destination for clean technology investment.



Photo: Lacombe's Blindman Brewing completed its carbon capture project in 2024-25.

## SHARING KNOWLEDGE AND KEY FINDINGS FROM COMPLETED PROJECTS

ERA delivers on its mandate by tracking progress, reporting outcomes, and sharing what has been learned from its investments. Every funded project is required to submit a final report that highlights key results and unique insights that could help drive further innovation. To support transparency and knowledge sharing, these reports are publicly available on ERA's website. In 2024-25, 25 projects were completed within the fiscal year.

### ACCELEWARE LTD.

ERA FUNDING: \$5,000,000  
PROJECT COST: \$28,200,000

Calgary, AB

Began construction of a commercial-scale pilot of the Radio Frequency Enhance Oil Recovery (RF XL) technology, completing an initial demonstration of the core heating technology.

### AGRICULTURE AND AGRI-FOOD CANADA

ERA FUNDING: \$490,000  
PROJECT COST: \$5,800,000

Edmonton, AB

Genotyped over 10,000 cattle, developed prediction tools for genetic selection and breeding, and demonstrated the platform for the beef industry to select and breed cattle with improved profitability and a reduced environmental footprint.

### AGRIUM CANADA PARTNERSHIP

ERA FUNDING: \$2,870,000  
PROJECT COST: \$5,700,000

Redwater, AB

Determined that post-combustion flue gas capture is the most technically feasible decarbonization alternative for the remaining unabated emissions at the Redwater, Alberta ammonia production facility, but further technology development is needed to improve the economics of this option.

### BLINDMAN BREWING

ERA FUNDING: \$90,000  
PROJECT COST: \$200,000

Lacombe, AB

Installed and commissioned capture technology to collect and compress CO<sub>2</sub> produced during fermentation and re-use it in the brewing process.

### CANADIAN PACIFIC KANSAS CITY LTD.

ERA FUNDING: \$15,000,000  
PROJECT COST: \$41,500,000

Calgary, AB

Demonstrated the world's first freight hydrogen-powered locomotives using made-in-Alberta technology, installed electrolytic hydrogen production and fueling facilities, and established a commercial partnership to commercialize the technology. This project's success led to approval of a follow-on ERA investment and there are now several locomotives in use and under development.

### CAPITAL POWER CORP.

ERA FUNDING: \$5,000,000  
PROJECT COST: \$15,800,000

Genesee, AB

Evaluated retrofitting the Genesee site natural gas combined cycle Units 1 and 2 with a full-scale, post-combustion, amine-based carbon dioxide capture system and determined that while amine-based CCS is technically viable, the project is not currently economically feasible.

### CARBONCURE TECHNOLOGIES

ERA FUNDING: \$2,240,000  
PROJECT COST: \$4,500,000

Edmonton, AB

Explored the commercial viability of CarbonCure's suite of carbon utilization technologies for the concrete sector and expanded into markets outside Alberta.

### CENOVUS ENERGY INC.

ERA FUNDING: \$880,000  
PROJECT COST: \$1,800,000

Conklin, AB

Explored innovative equipment and technologies to improve restoration efficiency of seismic lines created by the geophysical exploration for oil and gas, which produced a stand-out technology—the amphibious Bracke—that enhanced operational efficiency while maintaining ecological efficacy.

### CERES SOLUTIONS LTD.

ERA FUNDING: \$470,000  
PROJECT COST: \$1,400,000

Olds, AB

First commercial demonstration of Ceres' sustainable mushroom production system, utilizing agricultural by-product as a growing medium in a containerized system.



Photo: CPKC demonstrated the world's first hydrogen-powered locomotive in 2024-25.

## ELEMENTAL ENERGY RENEWABLES INC.

ERA FUNDING: \$10,000,000  
PROJECT COST: \$45,300,000

### Medicine Hat, AB

With co-owner and investor Cold Lake First Nation, completed the development, construction, and commissioning of the first utility scale vanadium flow battery direct current (DC)-connected to a solar generation facility in Alberta, that will produce emission-free electricity to Alberta's grid for the next 35-years.



Photo: Elemental Energy completed its first-of-kind project in 2024-25 with co-owner and investor, Cold Lake First Nation.

## ENERSION INC.

ERA FUNDING: \$1,800,000  
PROJECT COST: \$4,000,000

### Nobleford, AB

Demonstrated a 50-tonne adsorption cooling system that uses waste heat from a combined heat and power (CHP) unit efficiently for cooling and heating.

## FLASH FOREST INC.

ERA FUNDING: \$1,480,000  
PROJECT COST: \$3,700,000

### Fort McMurray, AB

Developed and field-tested drone reforestation technology, advancing hardware, aerial mapping software, automation, and biological seed pod technologies, aiming to reforest boreal areas rapidly. This project's success led to approval of a follow-on ERA investment.

## FORTIS ALBERTA INC.

ERA FUNDING \$1,280,000  
PROJECT COST: \$6,100,000

### Waterton, AB

Demonstrated a first-of-its-kind in Alberta solution, combining a 324-kilowatt solar PV and 1.5-megawatt Battery Energy Storage System (BESS) power microgrid system, able to provide backup power to the town of Waterton during electrical system outages.



Photo: Fortis Alberta demonstrated its first-of-kind microgrid system.

## FPINNOVATIONS

ERA FUNDING: \$350,000  
PROJECT COST: \$2,000,000

### Sturgeon County, AB

Developed a lignin-based asphalt formulation to be used in the paving industry. Six commercial demonstrations proved its feasibility under Canadian conditions, reaching commercial readiness.

## KINITICS AUTOMATION LTD.

ERA FUNDING: \$550,000  
PROJECT COST: \$2,700,000

### Alberta (various)

Tested a novel electric actuator at numerous gas production sites across Alberta, validating the technology as a cost effective, technically viable, and commercially available alternative to eliminate methane venting from pneumatic control devices.

## KUVA CANADA INC.

ERA FUNDING: \$1,580,000  
PROJECT COST: \$3,200,000

### Brooks, AB

Installed and demonstrated a methane monitoring infrared camera at eight oil and gas sites for year-round operation and deployments at 80 sites for shorter periods, successfully providing continuous leak detection and quantification for tank emissions and facility monitoring. Kuva's technology is fully commercialized and being used by more than 20 oil and gas operators across North America. Last year they were acquired by Sensirion, a Swiss-based sensor manufacturer.

## MILLAR WESTERN FOREST PRODUCTS LTD.

ERA FUNDING: \$730,000  
PROJECT COST: \$1,500,000

### Whitecourt, AB

Assessed the value and feasibility of using a Pulp Expert System (PES) driven by AI at the refining stage of the pulping process, which demonstrated substantial potential for improving operational efficiency and environmental performance.

## MODERN WELLBORE SOLUTIONS

ERA FUNDING: \$3,500,000  
PROJECT COST: \$15,500,000

### Grande Prairie, AB

Demonstrated full-scale deployment of a Multilateral Junction Tool Assembly that reduces emissions by enabling lateral junctions rather than requiring separate wells, allowing oil and gas operators to access unconventional reservoirs via multi-branched wells at a lower cost.

## SWAN HILLS GEOTHERMAL POWER CORP.

ERA FUNDING: \$10,000,000  
PROJECT COST: \$33,800,000

### Swan Hills, AB

Completed construction and commissioned a first-of-a-kind geothermal and natural gas hybrid power facility in Alberta that can produce up to 21 megawatts of grid connected electricity.

## OPTIMAL AGRICULTURAL EQUIPMENT LTD.

ERA FUNDING: \$640,000  
PROJECT COST: \$1,400,000

### Lacombe, AB

Manufactured and tested a dual-purpose grain cart and seed tender unit for the grain farming industry for both spring seeding and fall harvest operations.

## SYLVIS ENVIRONMENTAL SERVICES INC.

ERA FUNDING: \$2,120,000  
PROJECT COST: \$15,800,000

### Forestburg, AB

Demonstrated proof-of-concept of the BIOSALIX mine reclamation system by utilizing municipal biosolids and growing short-rotation coppice willows which act as a carbon sink and source of renewable fuel.

## STEEPER ENERGY CANADA LTD.

ERA FUNDING: \$5,000,000  
PROJECT COST: \$13,500,000

### Calgary, AB

Demonstrated Hydrofaction® technology for converting waste biomass from forests into biocrude and evaluated the commercialization potential of the technology in Alberta, enabling Steeper Energy to pursue development of the world's first commercial-scale facility.

## UNIVERSITY OF CALGARY

ERA FUNDING: \$1,420,000  
PROJECT COST: \$2,900,000

### Calgary, AB

Partnered with Canadian Natural, the project included a full-scale, field pilot test of a vehicle-based technology designed for equipment-level emissions screening to support effective regulatory leak detection and repair (LDAR) at thousands of oil and gas facilities across Alberta.

## SVANTE INC.

ERA FUNDING: \$3,070,000  
PROJECT COST: \$37,800,000

### Joffre, AB

Demonstrated VeloxoTherm™ next-generation solid-sorbent CO<sub>2</sub> capture with a 30-tonne-per-day pilot at a Husky oil and gas facility in western Canada, enabling Svante to further scale up its technology globally.

## WESTGEN TECHNOLOGIES INC.

ERA FUNDING: \$1,330,000  
PROJECT COST: \$4,700,000

### Calgary, AB

Demonstrated the Engineered Power on Demand (EPOD), a solar-hybrid power generation system to prevent gas venting from pneumatic devices, reduce methane emissions on remote oil and gas well sites, and advance the EPOD and "EPOD mini" to commercial availability.



Photo: Modern Wellbore developed the world's first Multilateral Junction Tool Assembly and process.

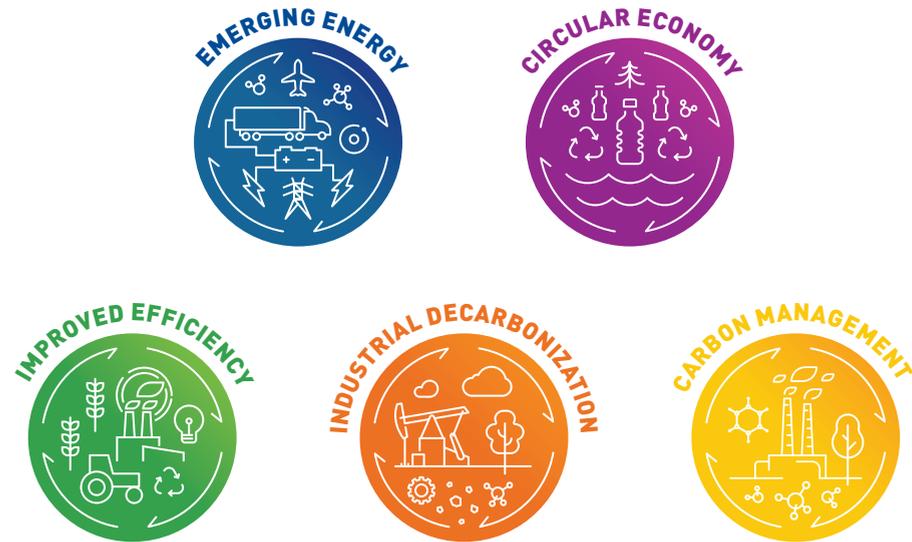


Photo: University of Calgary's PoMELo (Portable Methane Leak Observatory) project, a vehicle-mounted detection system designed to identify methane leaks directly at their source, completed in 2024-25.

## REFRESHING THE TECHNOLOGY ROADMAP

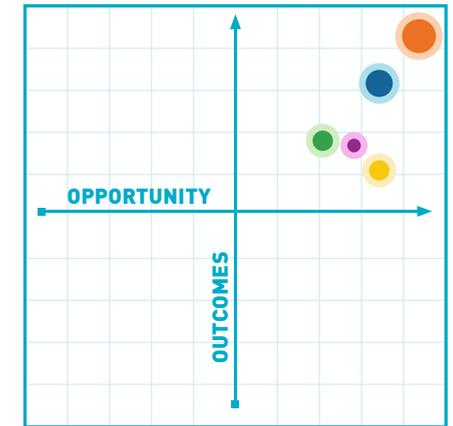
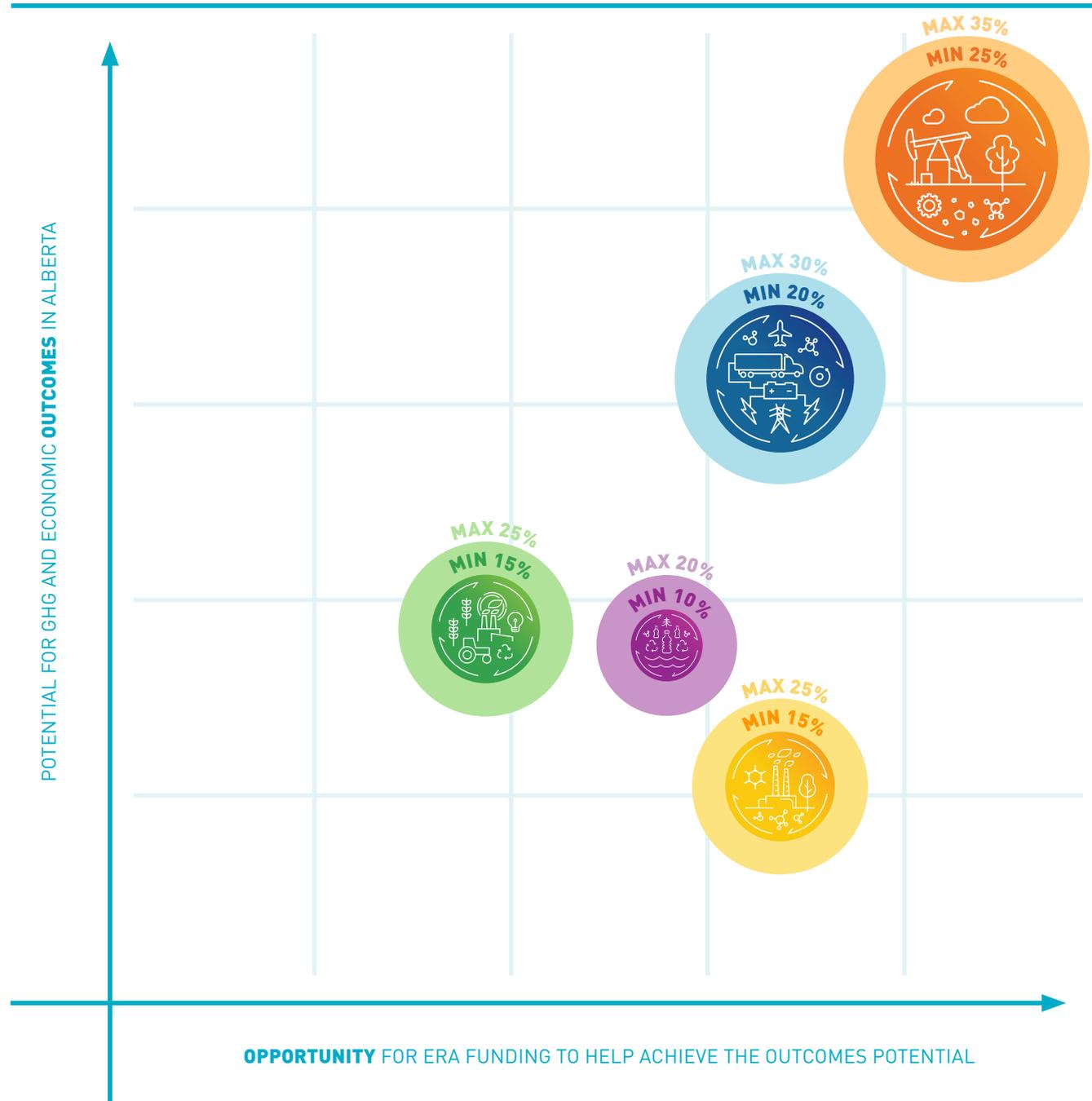
ERA engaged with government, industry, academia, and innovators to update the Technology Roadmap (TRM). The Fifth Edition of this important document articulates the pathways that will enable Alberta to have a competitive economy that delivers sustainable environmental outcomes. It outlines the strategic direction for ERA's investments and ensures a balanced focus on short-, medium-, and long-term technologies.

After significant stakeholder consultations, ERA established new objectives for the TRM while maintaining a focus on five cross-cutting technology areas:



Importantly, the five areas are:

- Positioned to avoid a “single pathway” approach, based on the premise that solutions from all five areas will be necessary and valuable.
- Expected to have the greatest potential impact on Alberta’s emissions and economy, as well as the most relevance to ERA’s mandate.
- Designed to help reach provincial, national, and global environmental and energy development goals.



- INDUSTRIAL DECARBONIZATION
- EMERGING ENERGY
- IMPROVED EFFICIENCY
- CIRCULAR ECONOMY
- CARBON MANAGEMENT
- MAX SHARE OF GO FORWARD INVESTMENT
- MIN SHARE OF GO FORWARD INVESTMENT

# RESEARCH SPOTLIGHTS ALBERTA'S INNOVATION ECOSYSTEM, BOLSTERS INDUSTRY OBJECTIVES

ERA prepares or participates in research and analysis that supports its mandate. These activities range from studies that identify the economic impact of ERA's investments to reports that speak to the potential for emissions reductions in specific sectors.

In 2024-25, ERA contributed to the publication of two white papers:

- **Study of Water Impacts of CCUS Developments in Alberta**  
With funding and support from ERA, Alberta Innovates, Lafarge Canada, and other industry partners, WaterSMART Solutions LTD., a Hazen Company, prepared a report studying the potential water impacts of carbon capture, utilization, and storage (CCUS) in Alberta. The report is intended to inform policies, regulations, and investments that will best enable the CCUS sector's growth.
- **Lessons Learned from 11 Industrial CCS Feed Studies**  
In 2022, ERA funded 11 Front-End Engineering Design (FEED) studies spanning 27 facilities across the oil and gas, power, cement, forestry, fuels, and chemical sectors through the Carbon Capture Kickstart funding call. ERA and the International CCS Knowledge Centre summarized key learnings from the program in this report to guide projects towards Final Investment Decisions and operational readiness by 2030.

Emissions Reduction Alberta's Carbon Capture Kickstart Program

OCTOBER 2024



## LESSONS LEARNED FROM 11 INDUSTRIAL CCS FEED STUDIES



Alberta Innovates  
Emissions Reduction Alberta

## Report: Study of Water Impacts of CCUS Development in Alberta

Submitted by:  
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Issued on:  
April 8, 2025

A Hazen Company  
**waterSMART**  
Water Management Solutions

Photo: Milk River, Rain Saulnier 2020

# CCUS EXPERTS FROM AROUND THE WORLD ATTEND GHGT-17

ERA partnered with the IEA Greenhouse Gas R&D Programme (IEAGHG) for the 17th Greenhouse Gas Control Technologies (GHGT-17) conference in Calgary. Attracting more than 1,500 scientists, researchers, innovators, and industry leaders from 47 countries, GHGT-17 was the most well-attended in the series' history. The event showcased Alberta as a leader in energy transition and a hub for collaboration among industry leaders, researchers, and policymakers.

ERA curated a new Business Stream that focused on strategies to help innovators advance their technology from idea to innovation. These 10 discussions complemented the traditional, multi-faceted technical stream, consisting of 355 sessions.



Photo: Justin Riemer, ERA's CEO, speaks at GHGT-17.



Photo: GHGT-17 featured 355 sessions.



Photo: GHGT-17 was the highest attended event in the series' history.

# INAUGURAL SUMMIT POSITIONS ALBERTA AS A GLOBAL LEADER IN BECCS

ERA and Alberta Innovates co-hosted the inaugural BECCS Leadership Summit in Banff. BECCS, which stands for Bioenergy with Carbon Capture and Storage, is a process that combines bioenergy production with carbon capture and storage technologies. More than 100 leaders from forestry, government, First Nations, carbon dioxide removal (CDR) credit buyers, and more, convened to discuss how to address barriers and accelerate adoption of BECCS in Canada.

Over two days, Summit attendees heard from subject matter experts and contributed their own expertise on a plethora of topics, from carbon capture to forestry, project development, and sustainability. The plenary session hosted conversations about how to get major projects off the ground, and how we can apply our learnings in forestry and carbon capture, utilization, and storage (CCUS) to BECCS projects.

Attendees heard from early adopters who are laying the groundwork for BECCS in Canada, featuring projects like Varme's Waste to Energy with Carbon Capture, Carbon Alpha's NorthStar BECCS, TorchLight Bioresources and Vault's Rocky Mountain Carbon, and Hydrogen Naturally's Bright Green Hydrogen.



Photo: More than 100 leaders took part in the BECCS Leadership Summit.



Photo: The inaugural BECCS Leadership Summit took place from October 16-18, 2024 in Banff, Alberta.



Photo: The BECCS Leadership Summit features 7 panel sessions and 6 workshop sessions.

# WEBSITE ENHANCEMENTS VISUALIZE INVESTMENT PORTFOLIO AND PROJECT INFORMATION ACCESS

ERA revamped its website to include an interactive project map, which allows anyone to easily pinpoint ERA-funded projects anywhere in Alberta and around the world. This user-friendly and visually appealing new feature includes a series of dashboards and charts to provide a visual overview of ERA's portfolio and helps to convey the almost \$1 billion worth of investments in more than 300 projects across multiple sectors.

Along with the new project map, ERA launched an Open Data Portal, which simplifies access to technology project investment information. ERA's portfolio dashboards allow searches by sector, technology area, innovation stage, and organization type. Datasets include project start and end dates and expected job creation.

These exciting new features enhance ERA's transparency and accessibility and make it easy for the public to view and understand the impacts of our funding and increase their awareness of ERA's role in the innovation system.

The screenshot displays the Emissions Reduction Alberta website interface. At the top, the logo and navigation menu (IMPACT, PROJECTS, FUNDING, ABOUT) are visible. The main content area is divided into a left sidebar and a right map area. The sidebar lists four projects, each with a color-coded category and detailed information. The map area shows a map of Alberta with project locations marked by pins and numbered circles.

**EMISSIONS REDUCTION ALBERTA**

IMPACT PROJECTS FUNDING ABOUT

PROJECTS [Download data set](#)

- NEW INDUSTRY**  
**High-Grade Activated Carbon Electrode Material Production Facility for Supercapacitors**  
 Atlas Power Technologies Inc.  
 Project type: **Demonstration** Status: **Contribution Agreement**  
 Project value: **\$6,490,000** Type of organization: **SME**  
 Funding amount: **\$1,450,000**
- ELECTRICITY**  
**Demonstration of Novel Membranes and Electrolyte for Salt Water Flow Batteries**  
 Aqua-Cell Energy Inc.  
 Project type: **Demonstration** Type of organization: **SME**  
 Project value: **\$1,860,000** Project Emissions Reductions by 2030: **117 tCO<sub>2</sub>e**  
 Funding amount: **\$846,500** Status: **Contribution Agreement**
- HEAVY INDUSTRY - OTHERS**  
**PHA Biopolymer Commercialization**  
 TerraVerdae BioWorks  
 Project type: **Demonstration** Status: **Contribution Agreement**  
 Project value: **\$2,500,000** Type of organization: **SME**  
 Funding amount: **\$1,250,000**
- HEAVY INDUSTRY - OTHERS**  
**MHP Refinery Project**  
 Sherritt International Corporation  
 Project type: **Development** Status: **Contribution Agreement**  
 Project value: **\$7,190,000** Type of organization: **Large**  
 Funding amount: **\$2,420,000**

Map showing project locations across Alberta, including major cities like Edmonton, Calgary, and Lethbridge, and various reserves.

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# AWARDS AND ACCOLADES

## ERA NAMED FORESIGHT CANADA'S FUNDER OF THE YEAR

ERA was named Foresight Canada's Funder of the Year at the 2025 Alberta Cleantech Awards. The event celebrates the top innovators, funders, adopters, and supporters accelerating the adoption of clean technologies and strengthening Alberta's economic resilience.

## BOARD MEMBERS AWARDED KING CHARLES III CORONATION MEDALS

Three ERA Board members—Kelly J. Ogle, Stuart Cullum, and Céline Bak—were named King Charles III Coronation Medal winners. The honour celebrates Ogle's significant contributions in energy and spearheading innovative projects that develop new technologies as the Board Chair of ERA. Cullum was recognized for his contributions to communities in Alberta and across Canada in the field of adult education. Bak was acknowledged for her impact on climate action and the advancement of sustainable finance in Canada.



Photo: ERA Board member Kelly J. Ogle named a King Charles III Coronation Medal winner.



Photo: ERA was named Foresight Canada's Funder of the Year at the 2025 Alberta Cleantech Awards.



Photo: ERA Board member Stuart Cullum was named a King Charles III Coronation Medal winner.



Photo: ERA Board member Céline Bak was named a King Charles III Coronation Medal winner.

### PROFESSIONAL ACCOLADES FOR HEATHER STEPHENS

ERA's Chief Operating Officer, Heather Stephens, was awarded the highest honour granted to a CPA: the Fellow of the Chartered Professional Accountants (FCPA). Stephens was recognized for outstanding achievements in her professional and volunteer work over her 26-year career.



Photo: ERA's COO, Heather Stephens.

### GRACE MEIKLE RECEIVES YOUNG WOMEN IN ENERGY AWARD

ERA's Grace Meikle, Director for Technology Impact, was recognized as one of Alberta's emerging female leaders at the Young Women in Energy (YWE) Awards. She was recognized for driving innovation and advocacy in Alberta's clean energy transition.



Photo: ERA's Director of Technology Impact, Grace Meikle.

### ERA DOCUMENTARY WINS AWARD

The 15 Years of Emissions Reduction Alberta documentary showcased a decade and a half of impact and was recognized as the best video production at the 46th Annual ACE Awards in Edmonton.



Photo: Madison Savitov, Director of Corporate and External Affairs at Carbon Upcycling, on set during filming of ERA's documentary.

## RAISING ALBERTA'S PROFILE AT STRATEGIC EVENTS

At a series of strategic conferences, workshops, roundtables, and other events, ERA worked to raise Alberta's profile as a global leader in technology investment through keynote speeches, panel participation, trade show booths, and more.



## SHOWCASING ERA'S IMPACT THROUGH PODCASTS, VIDEOS, AND WRITTEN STORIES

Through podcasts, videos, and written narratives, ERA showcases its funded projects and tells the stories of the people behind them. Last year, ERA highlighted a variety of projects, from Ceres Solutions repurposing agricultural waste to create high-value products to Edmonton's Heidelberg Cement Plant advancing a carbon capture and storage project.

 [Listen to the Carbon Copy Podcast](#)

 [Watch our videos and subscribe to our YouTube channel](#)

 [Read our Impact stories](#)

## FIVE NEW BOARD MEMBERS APPOINTED

In 2024-25, ERA welcomed:

- **Sarah Applebaum**, Partner at Panagea Ventures, where she leads investments in tech startups that drive solutions for planetary health, climate, and sustainability. Applebaum is an active mentor for entrepreneurs and effective advocate for the startup community.
- **Kevin Birn**, Global Head of the Centre of Emission Excellence within S&P Global Commodity Insights. Birn advises governments, companies, and industry on emissions accounting and sustainable energy practices.
- **Stuart Cullum**, President at Red Deer Polytechnic (RDP), is an executive leader with experience in private industry as well as the finance, post-secondary, and not-for-profit sectors. Cullum is leading RDP through its transformation into a provincially focused polytechnic, concentrated in manufacturing, energy innovation, social innovation and healthcare and health technology.
- **Dr. Monica Gattinger**, Founding Chair of Positive Energy, Director of the Institute for Science, Society and Policy, and Full Professor at the School of Political Studies, University of Ottawa. Through her research, speaking engagements, and media presence, Dr. Gattinger takes action to strengthen public and investor confidence in energy policy and regulation.
- **Dale Swampy**, Founder and President of the National Coalition of Chiefs and Special Advisor with the Business Council of Alberta. Swampy champions the rights of First Nations communities to participate in resource development as a pathway to reduce poverty and support sustainable practices.

# GOVERNANCE

ERA remains accountable to the Government of Alberta. As a Delegated Administrative Organization, ERA operates under an independent Board of Directors and is required to report annually on progress, operations, and outcomes delivered.

This structure allows ERA to:

- Respond quickly to the needs of Alberta’s innovation system.
- Provide independent oversight when selecting the most impactful projects for funding.
- Carry unallocated funds from one budget year to the next.
- Support the feasibility of multi-year projects.
- Reinvest funds when projects do not progress.

A commitment to best-in-class governance, operational excellence, internal controls, and continuous improvement ensures ERA functions efficiently and independently.

## EXECUTIVE



**Justin Riemer**  
Chief Executive Officer



**Heather Stephens**  
Chief Operating Officer



**Christophe Owttrim**  
Executive Director,  
Technology & Innovation

## 2024-25 BOARD OF DIRECTORS



**Kelly J. Ogle – Chair**  
Managing Director,  
Canadian Global Affairs Institute



**Sarah Applebaum**  
Partner,  
Pangaea Ventures  
*(appointed June 2025)*



**Céline Bak**  
President,  
Analytica Advisors



**Kevin Birn**  
Head of Carbon  
Research and Center of  
Emissions Excellence,  
S&P Global Commodity Insights



**Mark Blackwell**  
General Partner,  
Builders VC



**Kate Chisholm**  
Former SVP, Chief Strategy  
and Sustainability Officer,  
Capital Power



**Stephanie Clarke**  
Deputy Minister,  
Environment and  
Protected Areas



**Stuart Cullum**  
President,  
Red Deer Polytechnic



**Dr. Monica Gattinger**  
Director,  
Institute for Science,  
Society and Policy,  
University of Ottawa  
*(appointed June 2025)*



**Clive Mather**  
Former President,  
Shell Canada Ltd.



**David Moss**  
Director of Business  
Development – Animal Health,  
TELUS Agriculture



**Dale Swampy**  
Founder,  
National Coalition of Chiefs

# FINANCIALS

## INDEPENDENT AUDITOR'S REPORT ON THE SUMMARY FINANCIAL STATEMENTS

To the Board of Directors of Emissions Reduction Alberta

### ***Opinion***

The summary financial statements, which comprise the summary statement of financial position as at May 31, 2025, and the summary statement of operations for the year then ended, and related notes, are derived from the audited financial statements of Climate Change and Emissions Management (CCEMC) Corporation (operating as Emissions Reduction Alberta) (the "Entity") for the year ended May 31, 2025.

In our opinion, the accompanying summary financial statements are a fair summary of the audited financial statements, in accordance with the criteria disclosed in Note 2 to the summary financial statements.

### ***Summary Financial Statements***

The summary financial statements do not contain all the disclosures required by Canadian accounting standards for non- for-profit organizations. Reading the summary financial statements and our report thereon, therefore, is not a substitute for reading the Entity's audited financial statements and our report thereon.

### ***The Audited Financial Statements and Our Report Thereon***

We expressed an unmodified audit opinion on the audited financial statements in our report dated September 22, 2025.

### ***Management's Responsibility for the Summary Financial Statements***

Management is responsible for the preparation of the summary financial statements in accordance with the criteria disclosed in Note 2 to the summary financial statements.

Summary Financial Statements of

## **EMISSIONS REDUCTION ALBERTA**

(Emissions Reduction Alberta is a registered trade name  
of Climate Change and Emissions Management  
(CCEMC) Corporation)

Year ended May 31, 2025



### ***Auditor's Responsibility***

Our responsibility is to express an opinion on whether the summary financial statements are a fair summary of the audited financial statements based on our procedures, which were conducted in accordance with Canadian Auditing Standard (CAS) 810, "Engagements to Report on Summary Financial Statements".

A handwritten signature in black ink that reads "KPMG LLP". The signature is written in a cursive, slightly slanted style. Below the signature is a single horizontal line that tapers at both ends, serving as a signature line.

Chartered Professional Accountants

Edmonton, Canada

September 22, 2025

# EMISSIONS REDUCTION ALBERTA

Summary Statement of Financial Position

As at May 31, 2025, with comparative information for 2024

	2025	2024
<b>Assets</b>		
Current assets:		
Cash	\$ 309,545,946	\$ 157,646,344
Accounts receivable	37,756	104,678
Grants receivable (note 3)	53,868,037	50,000,000
Interest receivable	1,689,855	9,183,384
Prepaid expenses	291,508	205,996
Prepaid project expenses	4,599,588	-
Short-term investments	40,000,000	330,000,000
	<u>410,032,690</u>	<u>547,140,402</u>
Non-current assets		
Long-term investments	190,000,000	-
Property and equipment	187,500	90,798
Grants receivable (note 3)	429,782	-
Interest receivable	3,538,748	-
	<u>\$ 604,188,720</u>	<u>\$ 547,231,200</u>

## Liabilities

Current liabilities:

Accounts payable and accrued liabilities (note 4)	\$ 9,211,296	\$ 6,558,532
Deferred revenue	-	18,500
Deferred lease liabilities	2,882	-
	<u>9,214,178</u>	<u>6,577,032</u>

Non-current liabilities

Deferred lease liabilities	226,808	-
	<u>9,440,986</u>	<u>6,577,032</u>

## Net assets

General fund - unrestricted	258,341	(201,883)
Restricted fund	594,489,393	540,856,051
	<u>594,747,734</u>	<u>540,654,168</u>

Commitments and guarantees (note 4)

	<u>\$ 604,188,720</u>	<u>\$ 547,231,200</u>
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See accompanying notes to financial statements.

On behalf of the Board of Directors:



Director



Director

# EMISSIONS REDUCTION ALBERTA

## Summary Statement of Operations

For the year ended May 31, 2025, with comparative information for 2024

			2025	2024
	General Fund	Restricted Fund	Total	Total
<b>Revenue</b>				
Grant revenue (note 3)	\$ -	\$ 111,004,628	\$ 111,004,628	\$ 51,880,976
Interest income	-	25,577,713	25,577,713	29,693,191
Other Income	460,870	120,088	580,958	
	460,870	136,702,429	137,163,299	81,574,167
Project expenses (note 4)	-	71,717,285	71,717,285	84,345,763
Excess (deficiency) of revenue over project expenses	460,870	64,985,144	65,446,014	(2,771,596)
<b>Operating expenses</b>				
Program management	-	9,156,994	9,156,994	7,738,877
Consulting contracted services	-	657,873	657,873	922,779
Corporate costs	-	1,331,284	1,331,284	1,032,687
Amortization	-	60,204	60,204	32,335
Conference expenses	646	-	646	112,322
Board remuneration and expenses	-	145,448	145,448	96,001
Total operating expenses	646	11,351,802	11,352,448	9,935,001
Excess (deficiency) of revenue over expenses for the year	\$ 460,224	\$ 53,633,342	\$ 54,093,566	\$ (12,706,597)

See accompanying notes to financial statements.

# EMISSIONS REDUCTION ALBERTA

Notes to Summary Financial Statements

For the year ended May 31, 2025, with comparative information for 2024

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## 1. Authority:

Climate Change and Emissions Management (CCEMC) Corporation (“CCEMC”) is an Alberta-based, independent, not-for-profit organization incorporated under the Canada Corporations Act on February 17, 2009, and continued under the Canada Not-for-profit Corporations Act on October 14, 2016; its operations commenced on June 1, 2009. On October 21, 2016, CCEMC registered the trade name of Emissions Reduction Alberta (“ERA”) and uses this as its operating name. ERA’s mandate is to reduce emissions and support competitiveness and growth of Alberta’s economy by accelerating the development and adoption of innovative technology solutions. The Technology Innovation and Emissions Reductions Fund (the “TIER Fund”) is established under the Emissions Management and Climate Resilience Act, SA 2003, c. E-7.8 (the “Act”) by the Government of Alberta to support investment in innovation and clean technologies that will reduce Alberta’s emissions of specified gases and support its ability to adapt to climate change. The TIER Fund provides the primary source of revenue for ERA’s Government of Alberta grant. ERA may also receive funding from the Government of Canada, including funding from Natural Resources Canada and Environment and Climate Change Canada. Separate funding agreements are executed with these entities.

The Government of Alberta and ERA entered into a Grant Agreement dated and effective March 8, 2017, together with an Amending Agreement dated October 11, 2024, for the period up to and including March 31, 2026, with respect to funding under the Act. This is supplemented by a Memorandum of Understanding dated and effective April 6, 2023, together with an amending agreement dated December 12, 2024 which outlines roles and responsibilities of both parties to the Grant Agreement.

As a not-for-profit organization, ERA is exempt from tax in accordance with Section 149(1)(l) of the Income Tax Act (Canada).

Subsequent to year end, on June 5, 2025, ERA’s “Emissions Reduction Alberta Clean Fuel Regulations Compliance Fund” (CFR Fund) was approved as a registered Emission Reduction Funding Program (ERFP) under Clean Fuel Regulations (CFR) with Environment and Climate Change Canada. The CFR is designed to incentivize innovation and adoption of clean technologies and expand the use of low carbon intensity fuels throughout the economy. A primary supplier may choose to contribute to a registered ERFP in order to satisfy up to 10% of its annual carbon intensity reduction requirement. A ERFP must use all contributions by primary suppliers to fund projects that support the deployment or commercialization of technologies or processes that will reduce carbon dioxide equivalent (CO<sub>2</sub>e) emissions.

## 2. Basis of presentation:

The summary financial statements do not contain all the disclosures required by Canadian accounting standards for not-for-profit organizations. The statement of changes in net assets, the statement of cash flows, and certain note disclosures have been omitted. Reading the summary financial statements, therefore, is not a substitute for reading the audited financial statements of ERA.

ERA is committed to full accountability and transparency in all we do. Our audited financial statements for the year ended May 31, 2025, including all disclosures required by Canadian accounting standards for not-for-profit organizations, can be found on ERA’s website at [www.eralberta.ca](http://www.eralberta.ca).

# EMISSIONS REDUCTION ALBERTA

Notes to Summary Financial Statements

For the year ended May 31, 2025, with comparative information for 2024

### 3. Grant revenue:

Funds are granted from the Government of Alberta to ERA on an annual basis through a Grant Agreement. The current Grant Agreement was executed on March 8, 2017, amended on October 11, 2024, and is effective until March 31, 2026. The Amendment states that interest amounts earned in a given fiscal year are to be reported to the Government of Alberta and future grant amounts may be adjusted for interest earned in the prior period.

On August 26, 2024, ERA received a letter confirming a TIER Fund allocation of \$50 million for fiscal year 2024-25. This letter also confirmed that the grant allocation would be reduced by \$29.7 million for interest earned in the prior year resulting in a disbursement of \$20.3 million. These funds are to be used to execute ERA's business plan, as well as for the purposes stated in the Grant Agreement and the MOU. On August 27, 2024 ERA received a letter confirming an additional \$14 million to build on the success of the Alberta Innovates work to support investments aligned with the Advanced Materials focus area of ERA's 2024-27 Business Plan. On March 12, 2025, an additional \$22.4 million of funding was confirmed to support investments in the deployment of a Methane Incentive Program to support investments in the deployment of methane emissions reduction technologies. On April 29, 2025, a further allocation of \$50 million for a Tailings Challenge was confirmed that will advance oil sands mine water treatment technologies; this amount is included as a grant receivable as at May 31, 2025 and was received June 19, 2025. All other funding amounts noted above were received during the fiscal year.

On June 24, 2024, ERA signed an agreement with Natural Resources Canada (NRCan) related to a \$40 million grant for the Greening Industrial Facilities and Manufacturing Program (GIFMP). GIFMP provides financial assistance to support the implementation of energy efficiency and energy management solutions in industrial facilities. This program will be augmented by \$10 million already provided by the Government of Alberta to ERA from the TIER Fund. The Strategic Energy Management for Industry (SEMI) program was launched in the fall of 2024 and will run to March 31, 2027. ERA recognized \$4.3 million of GIFMP grant revenue based on the percentage of completion method as of May 31, 2025 which was included as a grant receivable; \$3.9 million was received July 2, 2025.

	Revenue Recognized	Grant Receivable	Grant Receivable (LT)
Government of Alberta	\$ 106,706,809	\$ 50,000,000	\$ -
Natural Resource Canada	4,297,819	3,868,037	429,782
	\$ 111,004,628	\$ 53,868,037	\$ 429,782

# EMISSIONS REDUCTION ALBERTA

Notes to Summary Financial Statements

For the year ended May 31, 2025, with comparative information for 2024

## 4. Commitments and guarantees:

During the year, ERA approved funding for 56 projects, 4 projects that were in contribution agreement phase last fiscal year are now executed, 5 projects were cancelled, 9 projects were terminated, and 4 projects were not initiated. 6 projects that were approved in fiscal year 2025 remain at the approved status at 2025 year end. Terms used for projects include: Never initiated - cancelled projects without an executed Contribution Agreement; Cancellation - cancelled projects with an executed Contribution Agreement, however no payments are made; Terminated - cancelled projects with an executed Contribution Agreement and payments made for at least one completed milestone; On Hold - Active project with an executed Contribution agreement but temporarily paused due to internal or external factors without formal termination.

As at May 31, 2025, ERA has 297 (2024 - 261) executed contribution agreements and has commenced or completed funding for 246 (2024 - 223) of these approved projects. Funding for 51 of the 297 projects executed has not commenced. Total committed funds for executed projects is the difference between the total funding approved for executed contribution agreements and project expenses incurred to date or contribution agreements cancelled or terminated. A summary of these amounts is outlined as follows:

	2025	2024
Total committed funds for executed projects - beginning of year	\$ 339,925,969	\$ 331,013,300
Total funds for executed projects approved or adjusted during the year	158,325,951	125,876,696
Project expenses incurred during the year	(62,890,256)	(63,212,043)
Contribution agreements cancelled or terminated during the year	(82,737,012)	(53,751,984)
Total committed funds for executed projects - end of year	352,624,652	339,925,969
Total funds for projects approved but not yet executed	22,369,150	41,829,275
<b>Total commitments</b>	<b>\$ 374,993,802</b>	<b>\$ 381,755,244</b>

Funds allocated to the executed contribution agreements are subject to ERA's review and approval prior to disbursement to ensure full compliance with the terms of the contribution agreement. The actual financial commitment could therefore differ materially from \$374,993,802 but will not exceed that amount. Project expenses incurred during the year decreased due to the timing of milestone deliverable completion on active projects. Sufficient funds are held in cash and short-term investments as at May 31, 2025, to service these commitments, approved projects, and other initiated commitments. Total project expenses noted above of \$62,890,256 (2024 - \$63,212,043) includes \$nil included in accrued liabilities (2024 - \$3,062,090) and \$6,864,800 included in accounts payable (2024 - \$2,114,843) at year-end. There are six projects totaling \$22,369,150 (2024 - \$41,829,275) that have been approved for funding by ERA's Board of Directors but for which contribution agreements have not yet been executed as of May 31, 2025.

Subsequent to year-end on June 17, 2025, ERA approved an additional twenty-one projects, eighteen of the projects were approved through the Advanced Materials Challenge, two through the Continuous Intake Program and one through Clean Energy Transition Partnership. Total dollar value approved was \$58,218,310 (2024 - \$73,859,848). These have not been reflected in the above table and are in addition to the total commitments of \$374,993,802.

# EMISSIONS REDUCTION ALBERTA

Notes to Summary Financial Statements

For the year ended May 31, 2025, with comparative information for 2024

## 4. Commitments and guarantees (continued):

Four of the previously executed projects have been terminated or cancelled, two approved projects will not proceed, and three projects had adjustments to the total commitment, totaling \$17,166,114. Six executed projects have been shifted to On Hold status, totaling \$25,729,167. Two approved projects, totaling \$8,083,500, now have an executed contribution agreement. As at September 22, 2025, ERA has 2 projects remaining, totaling \$8,700,000, which have been approved for funding by ERA's Board of Directors but for which contribution agreements have not been executed.

In addition to the commitments noted above, ERA has approved incentive funding under its Energy Incentive Programs: Energy Savings for Business (ESB) and Strategic Energy Management for Industry (SEMI).

The ESB program was launched in November 2020 and is now closed to intake. Projects will complete up to September 2025 and the remaining incentive amounts will be paid upon successful completion of the projects. Program close out activities are currently underway. A summary of the ESB funding is outlined below:

	2025	2024
Total incentive funding pre-approved	\$ 300,000	\$ 4,790,802
Total incentive funding post-approved	200,000	7,115,675
<b>Total Commitments - end of year</b>	<b>\$ 500,000</b>	<b>\$ 11,906,477</b>

Total project expenses of \$71,717,285 include \$6,579,583 (2024 - \$21,133,719) of payments related to the ESB program; of this amount \$nil is included in accounts payable and accrued liabilities (2024 - \$790,194) at year-end.

Subsequent to year-end, post-approved funding has increased by \$75,000 for the ESB program and pre-approved projects has increased by \$1,345,000. The increase is due to a small number of existing participants receiving an exception to expand the scope of their projects. No additional exceptions will be approved.

The SEMI program was launched in the fall of 2024 and will run to March 31, 2027. All participants in SEMI must first complete a Facility Readiness Assessment (FRA) to help identify and recommend further eligible SEMI activities. Once the FRA is completed, proponents will be provided with a SEMI roadmap that includes recommendations for additional eligible activities. ERA utilizes service provider Enerva Energy Solutions Inc. to manage the program and distribute incentives.

	2025	2024
Facility Readiness Assessment	\$ 942,612	\$ -
Strategic Energy Management Training	3,266,508	-
<b>Total Commitments - end of year</b>	<b>\$ 4,209,120</b>	<b>\$ -</b>

# EMISSIONS REDUCTION ALBERTA

Notes to Summary Financial Statements

For the year ended May 31, 2025, with comparative information for 2024

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## 4. Commitments and guarantees (continued):

Of the total commitment amounts the portion that exists as prepaid project funding is \$679,390 for FRA and \$2,273,810 for SEM.

Subsequent to year-end, FRA commitments have increased by \$217,050 and SEM commitments decreased by \$534,889, while commitments for Capital Retrofits have increased to \$5,289,411 as applicants continue to progress through the program.

Total project expenses of \$71,717,285 include \$2,247,452 (2024 - \$nil) of payments related to the SEMI program; of this amount \$3,126 is included in accounts payable and accrued liabilities (2024 - \$nil) at year-end. Payment for incentives of \$2,953,199 are included in prepaids that have been paid to Enerva where the activity by the participant is still underway. Incentives will be recognized as expenses as the participants proceed through the program.

ERA indemnifies its directors against claims reasonably incurred and resulting from the performance of their services to ERA. No amounts are reflected in the financial statements related to these indemnifications.

## 5. Subsequent Event:

On June 5, 2025, ERA's "Emissions Reduction Alberta Clean Fuel Regulations Compliance Fund" (CFR Fund) was approved as a registered Emission Reduction Funding Program under Clean Fuel Regulations (CFR) with Environment and Climate Change Canada. ERA is currently the only approved CFR fund administrator in Alberta. The compliance year for obligated parties under the CFR aligns with the calendar year. As of August 21, 2025, ERA has received \$188.22 million from primary suppliers for the 2024 compliance year. All contributions are held in segregated, restricted accounts.

All contributions made to the program will be used to fund projects that support the deployment or commercialization of technologies or processes that will reduce CO<sub>2</sub>e emissions by either December 31, 2030, in the case of a contribution made on or before December 31, 2025, or the fifth anniversary of the day on which the contribution is made for contributions in future compliance years.

