Figures accurate as of September 15, 2026
Emissions Reduction Alberta (ERA) reports on its activities on a quarterly basis. Figures are updated following each ERA Board meeting. For detailed information on projects and funding opportunities visit ERAlberta.ca.

FROM GUESSWORK TO PROOF: HOW A CALGARY STARTUP IS MAKING METHANE DATA MAKE SENSE

Somewhere in the world, a well pad is leaking methane no one has spotted. Multiply that by hundreds of thousands of wells, pipelines and facilities, and the scale of the problem Jessica Shumlich and Thomas Fox set out to solve becomes clear.

Methane is invisible, odourless and far more potent than carbon dioxide. It is also becoming a critical factor in how energy is bought and sold. Buyers, regulators and investors increasingly expect credible evidence of emissions performance. Yet many oil and gas operators lack the time, tools or expertise to turn vast amounts of data into reliable inventories and useful insights.

Shumlich and Fox co-founded Highwood Emissions Management in Calgary in 2020 to close that gap.

"The world needs clean, safe, reliable and abundant energy," says Fox, Highwood's CEO. "Consumption of low-methane oil and gas is growing, and buyers around the world increasingly require empirical proof of emissions performance."

Highwood's Emissions Intelligence Platform (EIP) turns complex operational and measurement data into automated, verifiable and consistent methane inventories. It helps operators understand emissions in context, benchmark performance and meet evolving buyer and reporting requirements, supporting better operational, strategic and investment decisions.

Developed with Highwood's industry steering committee, the Methane Analytics Collaborative, EIP uses structured workflows aligned with internationally recognized standards. Automation reduces the burden of processing and preparing data. For some users, reporting that once took months now takes hours, reducing cost and effort by 90 per cent.

Emissions Reduction Alberta invested $2.2 million through its Natural Gas Challenge to help Highwood build and field-test EIP using real operator data. The support funded early technical work and platform validation, helping move EIP toward commercial use.

"ERA's support and partnership have been foundational to EIP's development," Fox says.

The Alberta-grown platform is now deployed at more than 100,000 facilities across six continents. Highwood continues to develop analytical and AI-enabled tools that simplify methane workflows, helping operators spend less time wrestling with data and more time improving emissions performance.

OVER 17,000 PIGLETS KEEP WARM WITH ENERGY UPGRADES AT PARKLAND COLONY

For Peter Waldner from Parkland Hutterite Colony, energy efficiency is not just about reducing power use and energy costs, it's about improving animal welfare and strengthening the future of the farm.

"Energy management is about improving the quality of life for our animals," he said.

Peter works in IT and electrical operations at the colony's commercial farming operation south of Nanton, Alberta. The farm raises pigs, beef, dairy and chicken to be sold across the province. When the animals live comfortably, they create a better meat product, ensuring the farm remains profitable and sustainable for the future. That's why Peter signed up for ERA's Strategic Energy Management for Industry (SEMI) program.

"It makes sense to be energy efficient, for the benefit of livestock and the longevity of the farm," said Peter.

The colony has four barns, each containing multiple buildings. They house hogs and piglets, cows for dairy, chickens for egg laying, and maintain grassland for beef. As a 500-sow operation, they raise about 17,500 piglets over the course of the year. Parkland uses heat lamps to keep the young pigs warm and comfortable.

Thanks to a Facility Readiness Assessment from SEMI, Parkland identified the heat lamps in the hog barn as a high-energy piece of equipment. With a $53,000 grant from SEMI's Capital Retrofits activity, they upgraded the lamps to reduce their consumption. Now, the temperature is regulated for the thousands of piglets in the barn, automatically adjusting and turning off based on the outside temperature.

"Farming is an expensive hobby, so funding programs like these are very helpful. I try to keep on top of federal and provincial government programs, and see what funding is available. You're never too old to learn a new concept or energy-efficient way of doing things," said Peter.

The new heat lamps are expected to save 44,447 kWh on energy per year. It translates to $6,667 in cost savings for Parkland Colony—and a better home for the piglets.

Parkland's project is one example of how ERA's Strategic Energy Management for Industry program is helping Alberta facilities improve energy efficiency, strengthen competitiveness and reduce greenhouse gas emissions. Funded by the Government of Alberta and Natural Resources Canada, the $70 million program provides industrial and manufacturing facilities with funding, expertise and training in energy management.



HIGHWOOD GIVES OPERATORS A CLEARER VIEW OF THEIR METHANE EMISSIONS.



KEEPING PIGLETS WARM WITH ENERGY-EFFICIENT HEAT LAMPS.

INVESTMENT IN TECHNOLOGY INNOVATION

364 Projects*

- **EMERGING ENERGY** (75 Projects)
- **CIRCULAR ECONOMY** (45 Projects)
- **IMPROVED EFFICIENCY** (102 Projects)
- **INDUSTRIAL DECARBONIZATION** (61 Projects)
- **CARBON MANAGEMENT** (78 Projects)



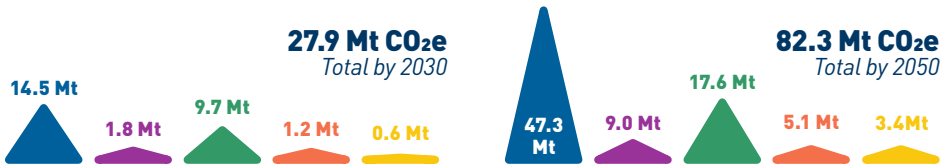


5.1:1 LEVERAGED FUNDING FROM PUBLIC AND PRIVATE INVESTORS

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

**In 2012, ERA provided $7 million in funding for three adaptation projects worth $7 million in consultation with Alberta Environment and Parks.*

CUMULATIVE PROJECT EMISSION REDUCTIONS



Note: GHG claims are subject to the disclaimer provided below. We have estimated emission reductions for all projects with approved funding commitments and executed funding agreements and assumed the projects will continue successfully and as planned. Should circumstances change for these projects, emission reduction estimates may change materially.

ENERGY EFFICIENCY PROGRAMS

ENERGY SAVINGS FOR BUSINESS

STRATEGIC ENERGY MANAGEMENT FOR INDUSTRY

METHANE REDUCTION DEPLOYMENT PROGRAM

PROJECTS **2583**
COMMITTED **$111 MILLION**
JOBS CREATED **2742**
AB GDP CONTRIBUTION **$348 MILLION**
ESTIMATED EMISSIONS REDUCED **4.66 Mt**

**Figures accurate as of May 31, 2026*

ALL PROJECTS

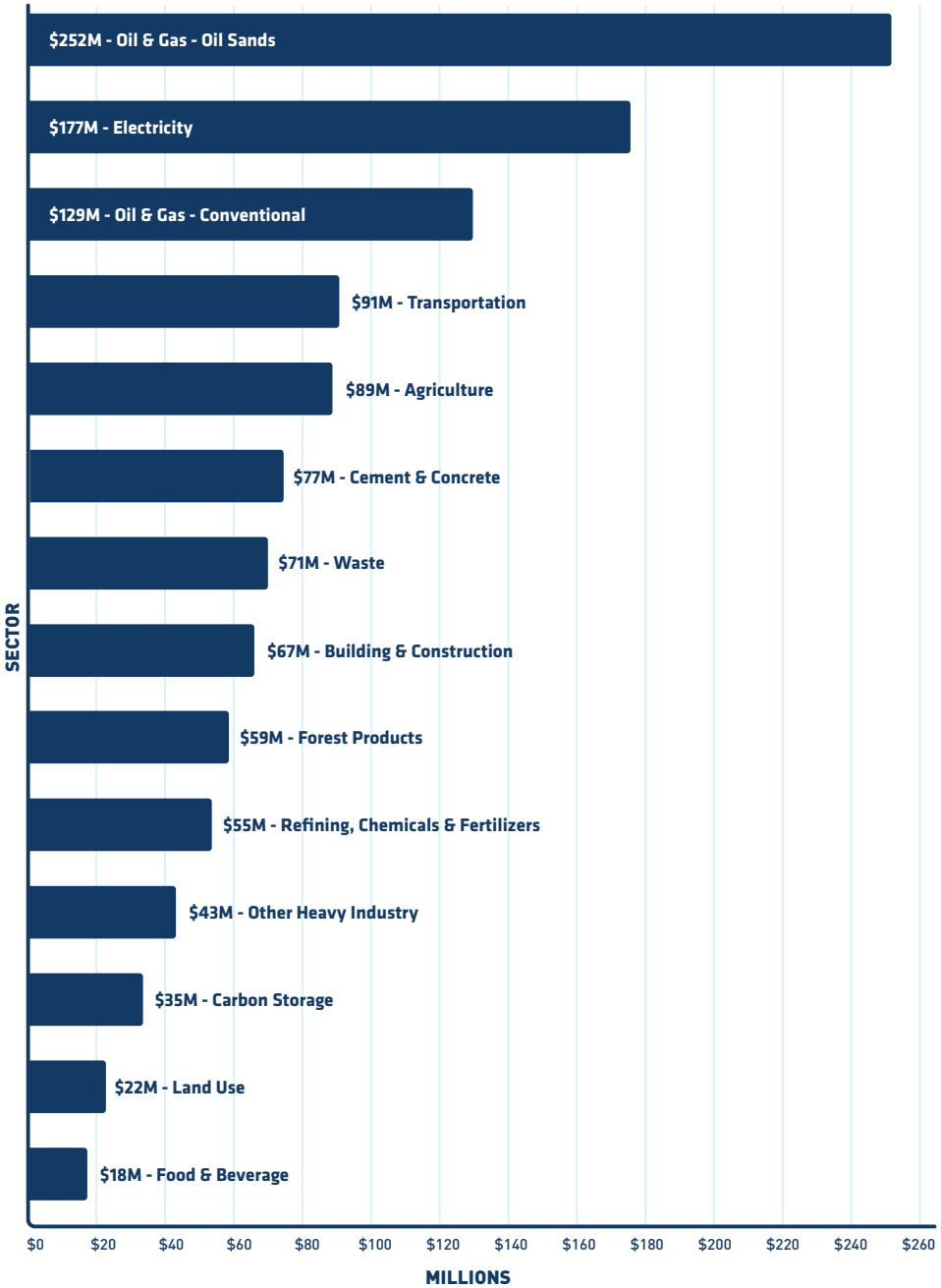
53,435 SUPPORTED **JOBS IN ALBERTA** BY 2029 — **$8.49 BILLION** GDP IMPACT **TO ALBERTA** BY 2029

+

72,026 **JOBS IN CANADA** BY 2029 — **$11.38 BILLION** GDP IMPACT BY 2020

***A person-year is equal to one-year of employment for one individual. Please note: economic impact is reported on a calendar year basis, not fiscal year.*

FUNDING BY SECTOR



EMISSIONS REDUCTION ALBERTA

Investing in technologies that improve our environment and economy.

Disclaimer: ERA presents consolidated portfolio information and forecasted information that relies on proponent assumptions and scenario analysis. Project and operating data used to prepare assumptions that are used in the methodology to calculate GHG emissions are determined by the project recipient and reviewed for reasonableness by ERA. 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 Stewardship Report, or any assumptions or methodologies underlying any such claims.

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