

Mobilizing Alberta's Clean Energy Economy

This project focuses on two areas: advancing Alberta's top low-emissions economic opportunities and [Alberta's Electricity Future](#) (AEF) solutions. Generate Canada through its subsidiary Energy Futures Lab, will advance this work through three key activities:

1. **Identify & Validate Opportunities & Barriers:** apply engagement findings to assess cleantech regional opportunities & barriers
2. **Convene Ecosystem to Unlock Opportunities:** align cleantech growth strategies and support clean electricity stakeholder coordination to broaden perspectives and approaches to solutions.
3. **Solution Development & Implementation:** support solution development and implementation for electricity system



RECIPIENT:
Generate Canada



PARTNERS:
RBC Foundation,
Various Industry,
Government, and
Community
Organizations



TOTAL BUDGET:
\$1,600,000



AI FUNDING:
\$500,000



PROJECT DATES:
MAR 2025 –
MAR 2028



PROJECT TRL:
N/A – Ecosystem
Development
Program



APPLICATION

This project aims to advance emerging industries, drive coordinated clean electricity system action, and increase the 'will to act' by aligning diverse groups around emerging low-emissions economic opportunities, informing policy and regulatory changes, and creating attractive investment environments.



ALBERTA INNOVATES CLEAN ENERGY

CLEAN TECHNOLOGY

RENEWABLE AND ALTERNATIVE ENERGY – CLEAN POWER AND HEAT

PROJECT GOALS

AEF:

- Accelerating decarbonization and modernization of Alberta's electricity system
- Developing and implementing new solutions based on emerging policy windows
- Holistic solutions are being implemented based on diverse system perspectives and needs
- Electricity system champions are influencing decisions aligned with [AEF Vision](#)

Regional Cleantech Opportunities:

- 1-3 priority cleantech sectors identified within two regions in Alberta
- Collaborative projects in the two regions are attracting investments
- Regional stakeholders and rights holders have shared confidence in cleantech development processes

BENEFITS TO ALBERTA

The project activities will strengthen greater alignment of economic priorities and effective working relationships between ecosystem actors, as well as increased connectivity across sectors and regions. This project is an enabler of various impacts, including:

- Clean energy and emerging sector growth
- Potential investment attraction
- Supporting economic reconciliation
- Low carbon and decentralized electricity generation
- Reducing GHG emissions
- Developing new revenue streams for rural and Indigenous communities
- Maintaining Alberta's leadership position in the energy system by leveraging regional strengths
- Progress towards developing robust clean technology industries



1 Student Trained



5 Project Jobs



**Enable
Future Jobs**



**Enabling Project
GHGs Reduced**



**Enabling Future
GHGs Reductions**

CURRENT STATUS

JUN 2025

AEF has completed Round 1 of solutions focused on advancing demand response recommendations, distribution energy resources (DERs) policy framework and local market considerations. The work on these solutions helped advance a distribution policy recommendation package submitted to GoA in May. Overview of regional cleantech opportunities [posted](#) with the report to follow. Regional engagement strategy and planning are underway.