

Alberta Carbon Grid™

Capture. Transport. Store.

About Alberta Carbon Grid

A collaboration between Pembina Pipeline and TC Energy, the Alberta Carbon Grid (ACG) is a world-leading CO₂ transportation and storage solution being designed to help multiple customers, industries, and sectors across Alberta meet Canada's important emissions targets.

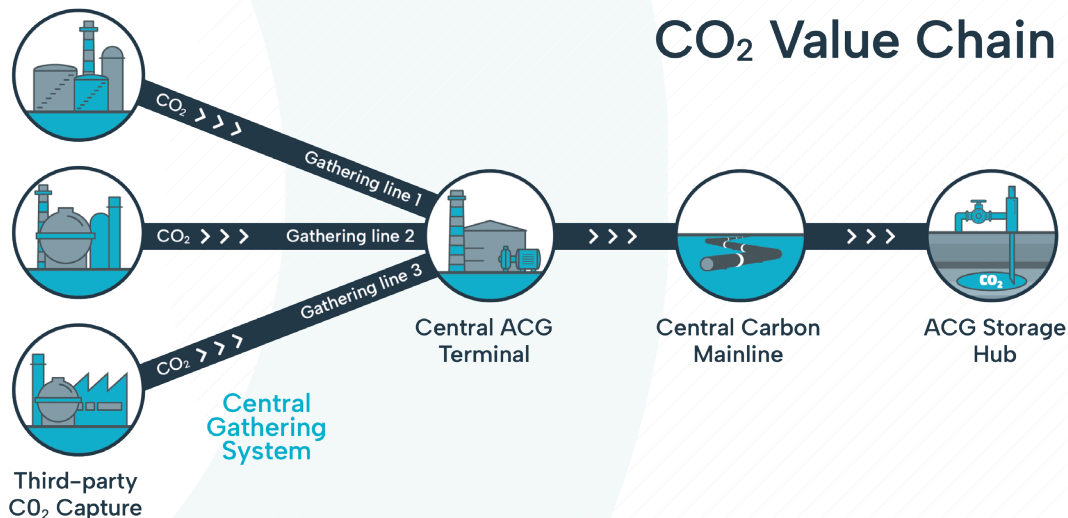
Our vision

ACG is exploring options to create several storage hubs throughout the province that would be designed to independently collect and store CO₂ from customers across multiple industries. Our long-term vision is to annually transport and store up to 20 million tonnes of CO₂ through several hubs across Alberta.

Carbon Capture, Utilization and Storage

Carbon Capture, Utilization and Storage (CCUS) is the process of capturing CO₂ from industrial emissions so that it isn't released into the atmosphere. ACG is being designed to collect CO₂ from multiple emitters and transport it through pipelines to a storage hub where it will be stored permanently in a large geological formation more than two kilometres below the surface.

CO₂ storage reservoirs are deep underground and geologically stable with strong containment characteristics to prevent CO₂ from escaping. During operations, ACG will have extensive monitoring, measurement and verification plans in place to ensure the CO₂ is stored as intended.



ACG Industrial Heartland project

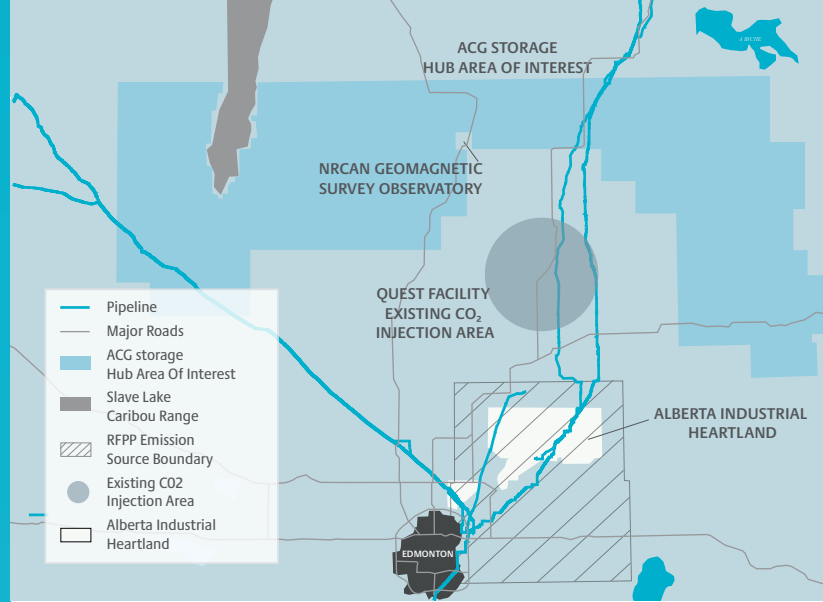
The ACG Industrial Heartland project is our first hub that will provide emitters in the area with a cost-effective, safe, and reliable solution to permanently store CO₂.

The project will be developed in phases with the potential capability of transporting and storing up to 10 million tonnes of CO₂ annually when fully developed.

In March 2022, the Government of Alberta invited ACG to move forward into the next stage of the province's CCUS process to continue evaluating one of the largest Area of Interest (AOI) for safely storing CO₂ from industrial emissions.

Our AOI consists of over 900,000 hectares of land providing access to premier pore space north of Fort Saskatchewan, Alberta. This area is considered an ideal CO₂ storage location because of its deep porous geological formations and potential to handle decades of storage capacity. ACG has entered into an evaluation agreement with the Government of Alberta to further examine and confirm the subsurface qualities of our AOI.

ACG began our evaluation program in 2023 as we completed a field seismic program and drilled an evaluation well. We anticipate our evaluation program will conclude in 2024.



Connect with us

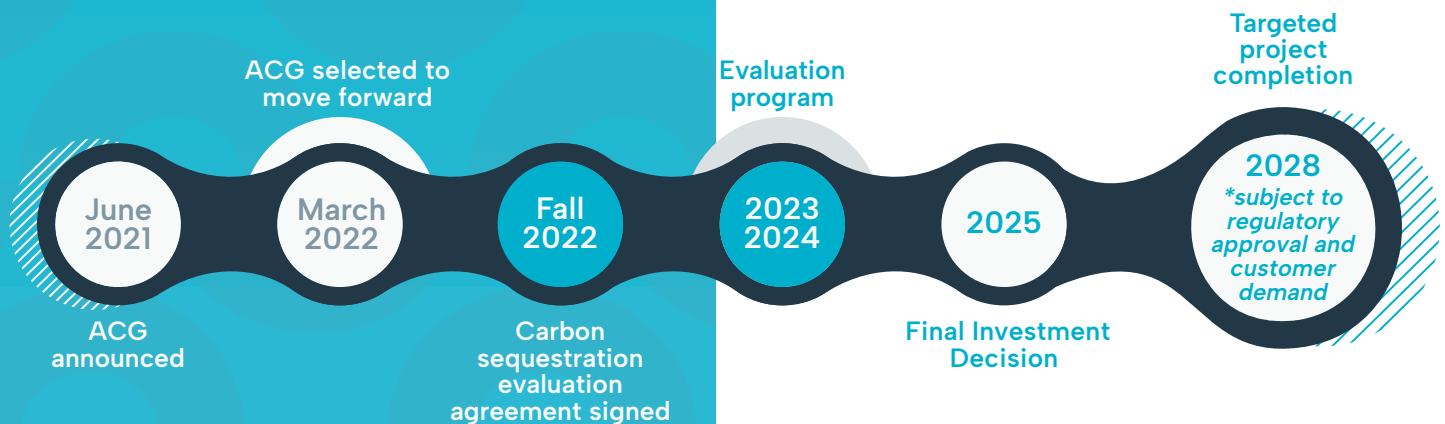
We look forward to continuing to collaborate with government, industry, customers, Indigenous communities and key stakeholders to advance this important project.

For more information visit

AlbertaCarbonGrid.ca

or reach us at

info@albertacarbongrid.ca



Timeline

We are still in the planning stages for the ACG Industrial Heartland project and timelines are subject to required approvals.

