Alberta Carbon Capture, Utilization and Storage (CCUS) Atlas

Defining Opportunities

Canadian Discovery Ltd.

Escalating federal carbon tax plans and an investment community focus on environmental, social and governance policies (ESG) are motivating industrial emitters to investigate **Carbon Sequestration and Storage** as part of their future business models. For CCUS to become a solution for the new economic realities, companies must first assess if an opportunity exists to economically sequester carbon near their emissions sources.

The **Alberta Carbon Sequestration and Storage Atlas** will leverage over 35 years of industry-leading technical expertise in subsurface knowledge and Atlas development. CDL is a world leader in basin evaluation, including assessing reservoir properties, pressure, fluid flow, fluid chemistry and geomechanics. The abundance of saline aquifers and oil and gas pools in Alberta provides ample opportunities to store CO_2 on a commercial scale. The Alberta Atlas will focus on evaluating the storage potential of depleted pools and EOR opportunities.

Study Objectives

» Evaluate storage capacity of saline aquifers, and oil and gas pools in Alberta

» Risk analysis and determine ultimate CO_2 storage capacity and estimate injection rate capacity

» Proximity analysis to neighbouring emitters greater than 100 Kt/a

Deliverables

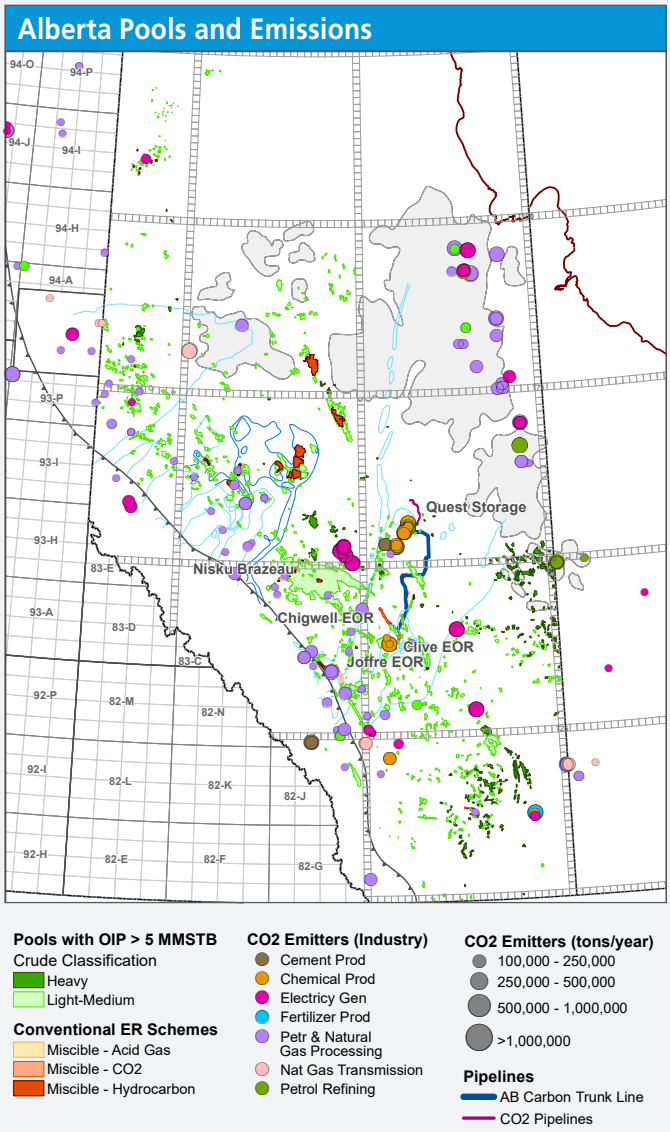
» An aquifer-by-aquifer and/or pool-by-pool resource description

» Aquifers- reservoir parameters, fluid parameters and volumetrics, CO_2 storage potential

» Pools-resource-in-place, cumulative production, current recovery factor, potential incremental recovery under a CO_2 flood scenario; fluid characteristics by pool (gravity, viscosity, asphaltene content, miscibility, water cut); CO_2 storage potential

» High level estimation of potential CO_2 injection rates, storage capacity and solvent ratio

Alberta Pools and Emissions



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