The Alberta Carbon Trunk Line

Capture
- Long term supply agreements are in place with CO₂ producers, Agrium and North West Redwater Partnership
- Agrium operates a fertilizer manufacturing facility
- North West Redwater Partnership is building a new refinery incorporating a gasifier that will refine bitumen to clean fuels
- The pipeline will be accessible by all CO₂ producers in Alberta’s Industrial Heartland and Central Alberta

Pipeline
- The ACTL is a 240 km 16" pipeline that connects CO₂ producers to enhanced oil recovery/storage sites
- Ultimate capacity of the pipeline is 40,000 tonnes per day or 14.6 million tonnes per year of dense phase CO₂ at a minimum of 95% purity

EOR & Storage
- The anchor projects for the ACTL are the Clive Nisku and Leduc reservoirs owned and operated by Enhance Energy.
- These mature reservoirs lie at a depth of 6,000 ft below ground.
- The ACTL will enable the production of 1 Billion barrels of light oil and storage for 2 Billion tonnes of CO₂.
- Additional CO₂ will be safely stored after EOR operations have been completed in depleted reservoirs which have stored oil and gas for millions of years.

ACTL Capacity: 14.6 million tonnes of CO₂ per year
In 1954 the Alberta Government, under Premier Ernest Manning, was under pressure to allow the export of natural gas from Alberta via federally incorporated pipelines. To ensure Albertans would have control of the resources in their province he enacted legislation that created the Alberta Gas Trunk Line (AGTL). Prior to the creation of this essential infrastructure, many discoveries of natural gas were left stranded and gas associated with oil was often flared because there was no way to move it to markets. The AGTL would prove to be a boon to the province’s natural gas industry and was a critical factor in establishing the natural gas and petrochemical industries in Alberta.

The Alberta Carbon Trunk Line (ACTL) will serve Albertans and Canadians with the same effectiveness as the AGTL. This backbone pipeline will be a solution provider to all CO₂ producers in Central Alberta, will revitalize the EOR industry and reduce the carbon footprint of oilsands production. This necessary infrastructure will ensure we can develop our energy resources in an environmentally responsible way and will benefit the next generations of Albertans as the AGTL has done since 1954.

ACTL  The Alberta Carbon Trunk Line  |  Project Overview

Safety
- The management of Enhance Energy (operator of the ACTL) has extensive experience in CO₂ operations from the Weyburn CO₂ project in Saskatchewan.
- The pipeline has been designed to meet all safety regulations.

Environmental Benefits
- 14.6 million tonnes of CO₂ emission reductions per year – the equivalent of taking 2.6 million cars off the road
- Access to and enabling the storage of 2 billion tonnes of CO₂
- A solution to CO₂ emissions from all producers in Alberta’s Industrial Heartland and Central Alberta, including upgraders and refineries, petrochemical facilities, power plants, natural gas processing and biofuels facilities
- Reduction of the carbon footprint of Alberta oilsands production

Economic Benefits
- Incremental oil production of 1 million barrels of light oil translating into up to $15 billion in royalties and taxes
- Creation of in excess of 584,000 person-years of employment, directly and indirectly, during construction and operation
- Revitalization of the oil industry in Central Alberta