



Petroleum Technology Alliance Canada (PTAC) and the Alberta Energy Research Institute (AERI) are pleased to announce the inception of the PTAC Carbon Capture Storage (CCS) Project. PTAC has initiated collaboration among 17 producers, transportation companies, and provincial governments which have provided funding for this project and will oversee its implementation through a Steering Committee.

Carbon capture and storage (CCS) could substantially reduce Canada’s greenhouse gas emissions. CCS is exactly as it sounds—carbon dioxide is first captured (coal-fired electricity plants, upgraders, refineries, etc.), then purified, and finally, transported to geological storage sites where it is injected underground. But CCS isn’t just a way to get CO₂ out of the air. It can also enhance oil production by recovering oil and gas from depleted reservoirs.

The project will provide design and cost estimate for a CO₂ collection system from different sources in the Fort Saskatchewan area of Alberta, and CO₂ transportation through a common pipeline system. The project scope will only include the required pipeline infrastructure to aggregate CO₂ to a common location. The study does not include pipelines to enhanced recovery fields at this time.

The Steering Committee believes that sufficient CO₂ exists or will exist in the Fort Saskatchewan area to support commercial scale enhanced recovery of conventional oil in Alberta. Large CO₂ supplies currently exist at refineries and upgraders and several new facilities proposed for the Fort Saskatchewan area.

Conducted by SNC-LAVALIN, the study will evaluate at least three representative CO₂ sources in order to understand what is required to aggregate different quality types of CO₂. Several companies have agreed to provide CO₂ quantity and quality information in support of this study. Process design may include CO₂ purification, dehydration and compression requirements. The project will review the merits of a common compression site to achieve system pressure required for pipeline transport to major oil pools.

Soheil Asgarpour, PTAC President said “This is a major step forward in producing clean energy from Alberta’s world class hydrocarbon resources. It will create a win-win situation for the producers, transporters, CO₂ emitters and above all, the people of Alberta.”

PTAC is a not-for-profit organization. Our vision is to help Canada become a global hydrocarbon energy technology leader through facilitation of innovation, collaborative research and technology development, demonstration and deployment for a responsible Canadian hydrocarbon energy industry. The complete listing of PTAC related projects is available on the PTAC website at www.ptac.org.

AERI promotes energy research, technology evaluation and technology transfer in areas including oil and gas, heavy oil and oil sands, coal, electricity, renewable and alternative energy. AERI promotes consortia and builds networks by integrating knowledge, skills and investment potential of industry players, federal and provincial governments, research providers and universities.

Project funders and sponsors include:

Air Liquide
Alberta Employment,
Immigration and Industry
Alberta Energy Research
Institute
ARC Resources Ltd.

ATCO
Devon Canada
Enbridge
Enerplus
Ferus
Inter Pipeline Fund

Kereco
Pembina
Penn West Energy Trust
Praxair
TransCanada Pipeline

For more information please contact:

Dr. Soheil Asgarpour
PTAC President
Telephone: (403) 218-7701
Email: sasgarpour@ptac.org
Website: www.ptac.org

