



## CO<sub>2</sub> Transport and Storage Infrastructure

**Project Leader:**  
**Enbridge Inc.**

**Project Title:**  
**Alberta Saline Aquifer  
Project (ASAP)**

**CO<sub>2</sub> Source:**  
**Coal-fired electricity  
power plant and other  
industrial sources**

**CO<sub>2</sub> Storage Type:**  
**Enhanced Oil Recovery  
(EOR) and sequestration  
in saline aquifer**

**Location:**  
**Wabamun area, located  
west of Edmonton, Alberta**

### Project Description

The Alberta Saline Aquifer Project (ASAP) is an industry initiative led by Enbridge to identify deep saline aquifers in Alberta that could be used in a carbon sequestration pilot project. ASAP's purpose is to: locate CO<sub>2</sub> storage sites along anticipated pipeline routes to enhanced oil recovery (EOR) projects; collect CO<sub>2</sub> from existing and future emissions locations; and develop the capability to simultaneously provide CO<sub>2</sub> to EOR projects and store excess CO<sub>2</sub> in saline aquifers. Enbridge will work collaboratively with EPCOR to provide transport and storage of the CO<sub>2</sub> captured (1 Mt or more per year) in its CCS projects.

### Expected Outcomes

The initiative is designed to be rolled out in three phases. In Phase I, completed in April 2009, ASAP members identified saline aquifer locations that would be suitable for CO<sub>2</sub> sequestration. During Phase II, ASAP members will obtain all the necessary regulatory approvals and develop a pilot project to actually inject CO<sub>2</sub> into the identified aquifers. The pilot project will give Enbridge and other ASAP members the opportunity to test the technologies they will be using and to demonstrate that these technologies are safe and reliable. Depending on the results of Phase II, Phase III will involve expanding the pilot project to a large-scale, long-term commercial operation.

### Company Profile

Enbridge Inc. is a leader in energy transportation and distribution in North America and internationally. Enbridge operates, in Canada and the U.S., the world's longest crude oil and liquids pipeline system. These pipeline systems have operated for over 55 years and now comprise approximately 13,500 km of pipeline, delivering more than 2 million barrels per day of crude oil and liquids. Enbridge is also involved in liquids marketing and



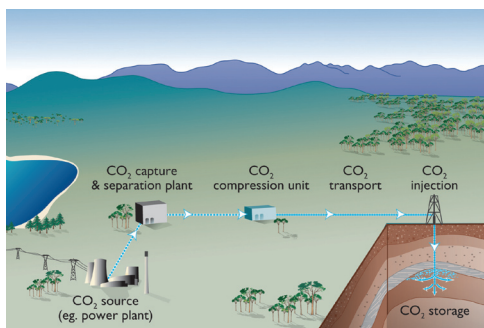
international energy projects. As a distributor of energy, Enbridge owns and operates Canada's largest natural gas distribution company, Enbridge Gas Distribution, which provides gas to industrial, commercial and residential customers in Ontario, Quebec and New York State. Enbridge distributes gas to 1.9 million customers and is developing a gas distribution network in New Brunswick. The company employs approximately 6,000 people, primarily in Canada, the U.S. and South America.

## Project Web Sites

[www.enbridge.com/ASAP/](http://www.enbridge.com/ASAP/)  
[www.albertaasap.com/](http://www.albertaasap.com/)

*Aussi disponible en français sous le titre :*  
Infrastructure de transport et de stockage de CO<sub>2</sub>

© Her Majesty the Queen in Right of Canada, 2009  
Cat No. M134-8/8-2009E (Print)  
ISBN 978-1-100-13259-4  
Cat No. M134-8/8-2009E-PDF (On-line)  
ISBN 978-1-100-13260-0



Source: CO<sub>2</sub>CRC



Source: EnCana Corporation



Source: EnCana Corporation