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## Decatur Fact Sheet: Carbon Dioxide Capture and Storage Project

**Company/Alliance:** Archer Daniels Midland, MGSC (Led by Illinois State Geological Survey), Schlumberger Carbor Services and Richland Community College

**Location:** Decatur, Illinois, USA

**Start Date:** Drilling (2008); Ground breaking (August 26 2011); Capture and Injection (2012)

**Size:** 1 MT/Yr

**CO<sub>2</sub> Source:** Ethanol plant: Archer Daniel's Midlands' (ADM) ethanol plant in Decatur IL., (capture using Alstom's ar process)

**Storage:** Sequestration in Mount Simon Sandstone

**Motivation/Economics:** Total cost \$4.4 million. DOE share \$3.9 million (89%). Motivation is to test the storage pote the Mount Simon Sandstone and the integrity of the overlying sealant rocks.

**Comments:** Construction activities began at Decatur on August 26, 2011.

The DOE announced on June 2010 that Decatur was one of 3 projects to receive up to \$612 million from the Americ Recovery and Reinvestment Act - matched by \$368 million in private funding - to demonstrate large-scale carbon ca and storage from industrial sources.

Decatur was initially selected in October 2009 for the DOE Phase 1 research and development grants. Following suc completion of the Phase 1 activities, it was identified as one of the most promising industrial CCS projects through a competitive process and will now enter into Phase 2 with additional funding to begin design, construction, and opera Phase 1: Drilling began in February 2009 and a successful injection with a rate of 1000 tons per day was achieved ir September 2009. For Phase 1, DOE awarded \$66.7 million of the \$84.3 million needed for the project. 3D seismic st of the injection zone were completed in March 2010 in preparation for Phase 2.

The Mount Simon Sandstone was selected as the optimum saline sink because of its widespread nature and immed overlying Eau Claire shale seal. The Mount Simon Sandstone underlies one of the largest concentrations of coal fire plants in the world. This makes the Mount Simon Sandstone one of the most significant carbon storage resources in United States.

Archer Daniels Midland ([June 2010](#)) was selected to receive an additional \$99 million in federal aid for a second cart sequestration project.

**Project Link:** [Midwest Geological Sequestration Consortium Project website](#)

**Other Sources and Press Releases:**

[Illinois CCS demonstration begins construction](#) (August 2011)

[DOE's ICCS Project Fact Sheet 2011 \[PDF\]](#)

[ADM receives \\$99 million in federal aid for second CCS project](#) (June 2010)

[DOE announces \\$1 billion in funds for CCS projects](#) (June 2010)

[ADM CCS project takes another step forward](#) (April 2010)

[Illinois CO<sub>2</sub> Injection Project Moves Another Step Forward](#) (March 2010)

[Drilling begins in Illinois CO<sub>2</sub> storage test](#) (February 2009)

[DOE Phase 3 project summary \[PDF\]](#)

[MGSC Phase I Project Tasks and Objectives](#)

[ADM Website](#)

[ADM, MGSC and ISGS Announce Carbon Sequestration Project](#) (January 2008)

[DOE awards \\$66.7 Million for Illinois CCS](#) (December 2007)

Date Modified November 23, 2011

