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## Southeast Regional Carbon Sequestration Partnership (SECARB)

*A Southern States Energy Board  
Carbon Management Program*

### **PRESS RELEASE**

*April 8, 2010*



### **SECARB Team Announces Significant Advances in Carbon Capture, Transportation and Storage Projects**

**April 8, 2010 (Washington, D.C.)** - Today, the Southeast Regional Carbon Sequestration Partnership (SECARB) team announced significant advances in the commercialization of integrated carbon dioxide (CO<sub>2</sub>) capture, transportation, and storage technologies. The announcement occurred during the United States Energy Association (USEA) briefing on "Evaluating CO<sub>2</sub> Storage Options in the Southeast Region" as part of its Carbon Capture and Sequestration (CCS) Briefing Series in Washington, DC. USEA sponsors a briefing series designed to educate and inform attendees on relevant and significant industry trends and developments.

With more than 50 individuals in attendance, the Honorable Linda Breathitt, Southern States Energy Board's Federal Representative, Dr. Gerald R. Hill, SECARB's Technical Coordinator at the Southern States Energy Board, and Dr. Susan D. Hovorka, Senior Research Scientist at the Bureau of Economic Geology (BEG) at The University of Texas at Austin, noted recent accomplishments of the SECARB Phase III program. Two distinctly different SECARB Phase III projects provide critical data and expertise to the future commercialization of integrated CCS system development; the Early Test and the Anthropogenic Test.

On behalf of the SECARB team, Dr. Hovorka leads a two-phase monitoring, verification, and accounting (MVA) project at the Cranfield Oilfield, located in Southwest Mississippi. Denbury Resources, Inc. currently operates the field and is a partner in the study. Phase II MVA activities at this site began in July 2008. The study area was expanded for Phase III "Early Test" operations, and CO<sub>2</sub> injection on a larger scale began in April 2009 and will continue through the Summer of 2011.

"BEG has monitored CO<sub>2</sub> injection at a sustained rate of one million tonnes per year since December 2009. Later this month, the cumulative injection of CO<sub>2</sub> into the Tuscaloosa Formation is projected to exceed two million tonnes," Dr. Hovorka reported.

The source of the CO<sub>2</sub> is naturally occurring and trapped in the subsurface formation known as the Jackson Dome. The CO<sub>2</sub> is transported by pipeline to the injection site. In November, the SECARB Early Test was recognized by the U.S. Department of

Energy (DOE) for furthering CCS technology and meeting G-8 goals for deployment of 20 similar projects by 2010 (DOE Techline). The Early Test is the fifth project worldwide to reach the CO2 injection volume of one million tonnes and the first in the U.S.

The second Phase III project is the Anthropogenic Test. Dr. Hill indicated that this project demonstrates an integrated CCS system by capturing the CO2 from Alabama Power's James M. Barry Electric Generating Plant in Bucks, Alabama, and transporting it approximately 10 miles via pipeline to Denbury Resources Inc.'s Citronelle Oilfield. The CO2 then will be injected into a dedicated well and stored in the Paluxy Formation, a saline formation approximately two miles underground. With data and experience gained at the Early Test, extensive MVA protocols will be implemented at the Anthropogenic Test site before, during, and after the injection to ensure public safety and to accurately account for the CO2. Southern Company, Electric Power Research Institute, and Advanced Resources International are leading this effort.

Dr. Hill stated "the SECARB Program, one of seven Regional Carbon Sequestration Partnerships (RCSP) across the nation, is the only Phase III large-scale geologic storage project to utilize CO2 captured at a coal-fired power plant. I am proud to report that fabrication of the capture unit is underway and it is scheduled to go on line around April 1, 2011."

In a statement by Ms. Breathitt, she declared "the significance of the SECARB Program's success is tremendous." She added, "the target formations for these projects are representative of Gulf Coast geology that could be used to store CO2 produced in the SECARB region during the next 100 years or more." Ms. Breathitt was appointed as the Southern States Energy Board's Federal Representative by U.S. President Barack Obama in August 2009.

## About Us

The Southern States Energy Board is an interstate compact comprised of governors and state legislators from sixteen southern states, Puerto Rico and the U.S. Virgin Islands. SSEB's mission is to enhance economic development and the quality of life in the South through innovations in energy and environmental policies, programs, and technologies.

SECARB, managed by the Southern States Energy Board, is a regional network of more than 100 stakeholders with a common goal of determining the best approaches for capturing and permanently storing gases that can contribute to global climate change. SECARB is funded by the U.S. Department of Energy/National Energy Technology Laboratory with cost-sharing by SECARB partners.

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