

Southeast Regional CO₂ Sequestration Technology Training Program (SECARB-Ed)



Fact Sheet March 2010

CCS Technology & Training

Carbon capture and storage (CCS) technologies have tremendous potential for reducing CO₂ emissions and mitigating global climate change. These technologies encourage economic growth and have manageable influence on energy use. Deploying these technologies on a commercial-scale will require expanding the workforce (including geologists, engineers, scientists, and technicians) trained in CCS specialties. Training of the existing CCS workforce and the development of new professionals can be accomplished through fundamental research and educational opportunities. These CCS technol-

ogy areas include: simulation and risk assessment; monitoring, verification, and accounting (MVA); development of geological related analytical tools and interpretation methods; methods to interpret geophysical models; well completion; public outreach; and integrity of potential reservoirs for long-term CO₂ storage.



The Project

NETL is partnering with the Southern States Energy Board (SSEB) and others, from both industry and academia, to develop the Southeast Regional CO₂ Sequestration Training Program (SECARB-Ed) for the southern United States. This will establish a CCS regional training program to facilitate national and global delivery of CCS technologies. The project will accomplish a series of tasks over a three-year period. Major project tasks include:

- Initiating and implementing a SECARB-Ed Sponsorship Development Program that allows SECARB-Ed to become self-sustaining after the initial three-year period by establishing an advisory board, compiling a list of products for revenue generation, and developing and implementing a marketing strategy.
- Establishing CCS technology curriculum by identifying topics for short courses, positioning SECARB-Ed to take advantage of opportunities to showcase its capabilities, and attaining technical societies' acceptance of the training materials.
- Engaging in outreach and networking opportunities by delivering training, providing speakers, and assisting training institutions in development and delivery of CCS training.
- Facilitating technology transfer through the utilization of electronic and printed media.
- Supporting research and outreach/education goals of SECARB.

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DOE/NETL & the ARRA

The U.S. Department of Energy's (DOE) National Energy Technology Laboratory (NETL) has selected seven projects to receive more than \$8.4 million in funding to help develop regional sequestration technology training centers in the United States. The majority of this funding is being provided by the American Recovery and Reinvestment Act (ARRA) of 2009. The seven projects will facilitate the transfer of knowledge and technologies required for site development, operations, and monitoring of commercial CCS projects. Training activities will focus on applied engineering and science of CCS for site

developers, geologists, scientists, engineers, and technicians to provide a technology transfer platform for CO₂ sequestration activities. The awarded projects will produce a workforce with skills and competencies in geology, geophysics, geomechanics, geochemistry, and reservoir engineering needed to successfully implement and deploy CCS technologies. In part the success of the program will be measured according to the number of Continuing Education Units (CEUs) and Professional Development Units PDUs awarded for the completion of training.

Goals/Objectives

The goal of this project is to advance the United States in its position as the leader in CCS technologies by addressing climate change and developing near-zero emission technologies that will significantly reduce CO₂ emissions from industrial plants.

The project objective is to transfer the knowledge required to enable commercial professionals to implement and deploy CCS projects in the United States. The training is designed for site developers, geologists, engineers, scientists, and technicians but will be available to others as well. Specific CCS project areas to be addressed are site development, operations, and the monitoring of commercial CCS projects. Knowledge and technology transfer will take place through the creation of CCS technology curriculum and a regional transfer platform.



Benefits

The overall benefit of this project is a trained workforce that can accelerate implementation and deployment of carbon storage by increasing the quantity and decreasing the cost of CCS. The Southeast Regional CO₂ Sequestration Training Program will be applicable to the entire U.S. but is geared primarily toward developing a qualified workforce in the southern states.

