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SECARB-USA

Research Partners

























Industry Partners



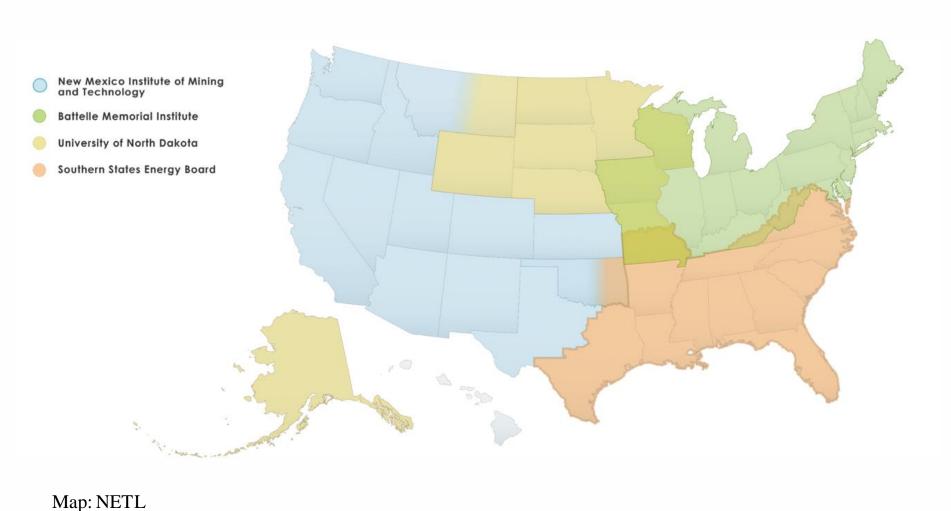








Regions Associated with DE-FOA-002000 Recipients



SECARB-USA Region

Alabama

Arkansas

Florida

Georgia

Louisiana

Mississippi

North Carolina

South Carolina

Tennessee

Virginia

and portions of:

Kentucky

Missouri

Oklahoma

Texas

West Virginia

Program Goal, Objective, and Research Areas

The **SECARB-USA** project supports the U.S. Department of Energy (DOE) Office of Fossil Energy's (FE) mission to help the United States meet its need for secure, affordable, and environmentally sound fossil energy supplies by **utilizing the** advancements made by the current Regional Carbon Sequestration Partnership (RCSP) Initiative to continue to <u>identify and address knowledge gaps</u>.

Identify and address regional onshore storage and transport challenges facing commercial deployment of carbon dioxide (CO₂) capture, utilization, and storage (CCUS) technologies.

Primary Research Areas:

- 1) address key technical challenges;
- 2) facilitate data collection, sharing and analysis;
- 3) assess transportation and distribution infrastructure; and
- 4) promote regional technology transfer and dissemination of knowledge.

SECARB-USA

SECARB-USA at a glance...

Basics

- 5-year project, start date 10/1/2019
 - Conditional award
- 2 phases (P) and 2 budget periods (BP)
 - PI/BP1 (3 years): 10/1/19-9/30/22
 - PII/BP2 (2 years): 10/1/22-9/30/24
- Federal \$5,000,000 (\$5 million/RI appropriated and currently under negotiation with NETL for scope enhancement)
- Non-Federal \$1,335,136 (21%)
- 8 Subrecipients
- 1 National Laboratory
- 5 Industry Network Organizations advisory capacity
- Existing Public-Private Partnership

Primary Tasks

- T1: Project Management & Planning
- T2: Technical Challenges
- T3: Data Collection, Sharing, and Analyses
- T4: Regional Infrastructure
- T5: Regional Technology Transfer

Project-Specific Meetings

- Annual Partners Meetings
- Annual Stakeholders' Briefing
- Project Review Meetings and Kickoff and Final Briefings

Completed Deliverables and Milestones

- Participate in Project Kickoff Meeting
- Project Management Plan
- Data Management Plan
- Published Fact Sheet
- Published Webpage



Southeast Regional CO, Utilization & Storage Acceleration Partnership SECARB-USA DOE/NETL Coordinator Principal Investigator The Southern States Energy Board (SSEB) is leading a coalition of technical experts to identify and address regional onshore storage and transport challenges facing commercial deployment of carbon dioxide (CO₂) capture, utilization and storage Field Test Partners The goal of the "Southeast Regional CO, Utilization and Storage Acceleration Primary Sponsors Partnership" (SECARB-USA) project is to help the United States meet its need for secure, affordable, and environmentally sound fossil energy supplies by utilizing the advancements made by the Regional Carbon Sequestration Partnership (RCSP) Initiative to continue to identify and address knowledge gaps. Industrial Partners SSEB and a select network of experienced CCUS project developers and operators will coordinate their capabilities to accelerate CCUS deployment and achieve four primary research objectives: 1) address key technical challenges; 2) facilitate Bureau of Economic Geology data collection, sharing and analysis; 3) assess transportation and distribution at the University of Texas at infrastructure; and 4) promote regional technology transfer and dissemination of knowledge. (Gerald R Hill PhD) The SECARB-USA regional initiative encompasses the States of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and portions of Kentucky, Missouri, Oklahoma, Texas, and West Virginia. The Southern States Energy Board is the award recipient. The Partners will collaborate with DOE and the National Laboratories to accelerate CCUS technology development, to support the National Risk Assessment and Energy Research at the Partnership (NRAP) initiative and other modeling and simulation efforts that arise, and to participate in a new machine learning initiative. Results and knowledge gained will be archived in the Energy Data eXchange (EDX) database and made ndustry Network available to the public for the benefit of industry and other CCUS stakeholders. CARBON STORAGE MAP SOUTHERN STATES ENERGY BOARD BATTELLE MEMORIAL INSTITUTE UNIVERSITY OF NORTH DAKOTA NEW MEXICO INSTITUTE OF SOURCE: NETL (2019)

Upcoming 2020 Deliverables and Milestones*

- Inventory Initial List of Non-Technical Challenges for CCUS*
- Needs Assessment Framework
- Preliminary Regional Assessment of Potential Storage Complexes, Including Capacities and Costs, Based on Application of NRAP and SCO2T
- Sub-basin Prospective Areas
- Data Quality Methodology

2021 Deliverables and Milestones*

- Complete Needs Assessment Framework for Storage Complexes*
- Host First Partners Meeting on Risk Needs for 2025 Commercial Deployment*

