CCUS Commercialization
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“Through innovations in energy and environmental policies, programs and technologies, the Southern States Energy Board enhances economic development and the quality of life in the South.” ~ SSEB Mission Statement

• Interstate Compact Organization, created by state law and consented to by Congress (PL 87-563, PL 92-440)
• 16 U.S. States and Two Territories
• Each jurisdiction represented by the governor, a legislator from the House and Senate, and a governor’s alternate
• Federal Representative appointed by U.S. President
• Secretary, who serves as Executive Director
Overall Project Goals & Objectives

“Provide a regional effort that fosters and sustains an innovative environment for the development of coal policies and technologies.”

• Foster and facilitate communication, education and outreach between DOE, governors and legislative leaders within the SSEB region, state agencies, utilities, regulatory bodies, the private sector and non-profit organizations.
• Support global outreach to promote the adoption of U.S. technologies internationally and provide greater opportunities for U.S. companies in a globally challenging environment.
• Brief state policy-makers and regulators on the historical and current technical aspects of clean energy demonstration programs to gain support and regulatory approval for future commercial deployment and on establishing a public-private consortium of experts to promote the rapid and transformative deployment of CCUS technologies.
• Founded in 2018
• Driven by industry members of the Energy Advisory Board at UH
• Science and Technology AND Public Policy, Legal, Business
• CCME addresses CCUS, Methane, Transformative Process Technologies – all targeting EMISSIONS – NOT Fuels
• CCME symposiums on CCUS, 45Q, H\textsubscript{2} transition, Decarbonized grid, Circular plastics economy. Ongoing schedule for 2021.
SSEB Awarded $3.5MM Project to Accelerate Clean Coal and Carbon Management Technologies

“We applaud SSEB’s association with the University of Houston to focus on commercial deployment of CCUS projects…. The time has come for CCUS to be deployed by private industry.”

– The Honorable Steven Winberg, ASFE U.S. DOE

Create a public-private consortium of experts to promote the rapid and transformative deployment of CCUS technologies.

Focus beyond the research and development phase of technology development and center on the commercial deployment needs of industry.
• Establish a Leadership Committee and Public-Private CCUS Commercial Deployment Consortium (12/31/20)
• Develop a CCUS Commercial Deployment Consortium Roadmap (FY2021)
• Provide CCUS Facility Design Support to Industry (9/30/21)
  – Seek opportunities to provide CCUS facility design support to industry
• Maintain robust Stakeholder Engagement and Workforce
  Develop strategic and tactical roadmap (10/1/20 – 9/30/25)
  – Directly support commercial CCUS deployment
  – Convene, Host and Engage the marketplace through events
• Solicit and assemble ongoing feedback from participants on obstacles to CCUS deployment (10/1/20 – 9/30/25)
Immediate Short Term Goal:
Convene identified participants and the experience of industry, academia, and government to accelerate CCUS deployment in the Southern region, and across the US. Leadership Team identified. (12/2020)

First Year Goal:
Identify and Address key challenges to commercial risk in the broad marketplace in terms of technologies, transportation and distribution infrastructure, legal and policy and to promote regional knowledge transfer and inform marketplace and government stakeholders.
• Analysis and tactical Roadmap (9/30/21)
Step 1: Recruit Leadership Team

- Recruit Leadership Team to Guide Development of Roadmap
- Coordinate effort with Regional Initiatives – ensures complementary effort to regional R&D activities
- **Deliverable Due 12/31/20: Planning Committee Roster & Verification of Commitment to Participate**
Step 2: Develop & Initiate Roadmap

- CCUS Commercial Deployment Consortium Roadmap Development
  - Deliverable Due 9/30/21: CCUS Commercial Deployment Consortium Roadmap
- Phased initiation of Roadmap over 3 phases and 4 years (FY22-25)

Roadmap’s Contents (preliminary)
- Near- and long-term management and staffing of the Consortium and the roles and responsibilities of all personnel and participants;
- Funding/membership mechanisms for establishing a self-sustaining Consortium;
- Involvement of the Regional Initiatives to ensure the project is complementary to, and builds upon, existing research and development efforts;
- Services and expertise to be provided through the Consortium’s structure, including an assessment of challenges and obstacles to deployment of CCUS technologies;
- Workforce development needs to support the rapid acceleration of CCUS technologies commercialization; and
- Plan to obtain commitments to join a Consortium from a broad spectrum of public-private partners, especially representatives from industry, universities, and the CCUS community.
Ongoing Activities

• CCUS Facility Design Support to Industry (full performance period)
  – Seek opportunities to provide CCUS facility design support to industry
  – Collaborate with Regional Initiatives and other DOE and NETL-funded carbon management projects

• Stakeholder Engagement and Workforce Development (full performance period)
  – Directly support CCUS deployment
  – Host and support events
  – Solicit and assemble feedback from participants on obstacles to CCUS deployment (can feed findings into the Regional Initiatives)
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