

SCCS California Activity Update

CalCCS

Nov 19, 2024

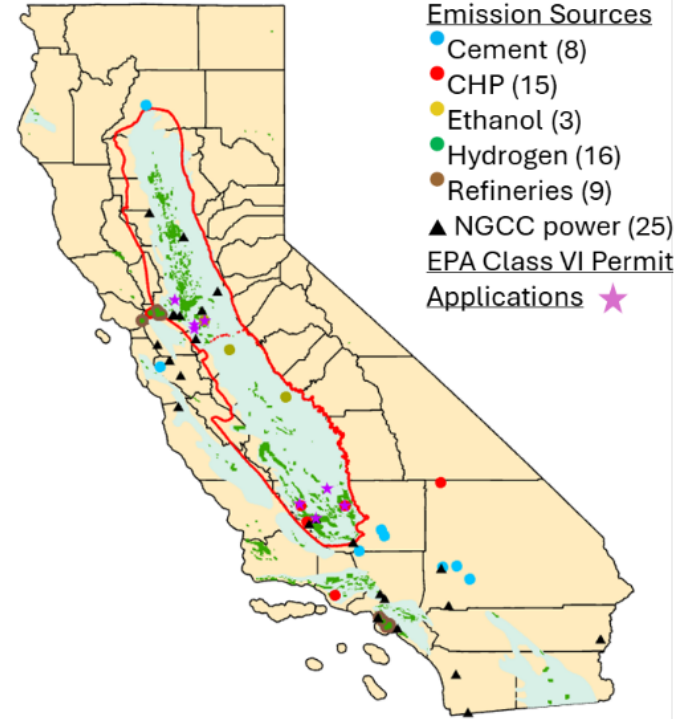


Stanford | Doerr | Stanford Center
School of Sustainability | for Carbon Storage

CalCCS

California Central Valley Carbon Capture Storage and Community Engagement Partnership

DOE FOA 3014 (Regional Initiative : \$6.3 MM, 3 years)



Objectives

The goal of the CalCCS Project is to **accelerate deployment** of Carbon Capture and Storage (CCS) in the **Central Valley Basin (CVB)** in a **just, equitable, and environmentally responsible manner**. A multidisciplinary team has been assembled with expertise in education, community engagement, carbon storage resource assessment, project management, monitoring, reporting and verification for CCS projects, carbon dioxide (CO₂) pressure management and optimization, legal, regulatory, CO₂ transportation and safety. **This team will provide technical assistance to project developers and Central Valley communities.**

CalCCS Project Partners

Stanford (PI Tony Kavscek, Planning Mgr Sarah Saltzer)

California Geological Survey

LBNL

Carbon Solutions

EPRI

U Utah

NMT

Cal State Fresno

Cal State Sacramento

Valley Onward

Los Medanos College



Stanford
University



CARBON
SOLUTIONS



BERKELEY LAB



SACRAMENTO STATE



Tasks

- Community Benefits Plan Implementation
- Training the Next Generation
- Carbon Storage Resource Assessments
- Identify Cross Cutting Technical Opportunities
- Technical Assistance to stakeholders (project developers, community, etc)

Community Benefits Plan



26% of the total project budget

Planned work includes:

- Community engagement with technical information
- Critically evaluate and communicate assessments of net community benefits associated with CCS projects
- Work with CCS projects to clearly communicate community impacts of project development

Training the Next Generation



Planned training includes:

- Online learning hub
- Stanford non-degree short courses
- Summer internships
- Skills training for the trades
- Mini-plant and Fluid flow facilities for hands on learning

Technical Activities

Including :

- Resource assessments for Central Valley Basin (CVB)
- Development of GIS system for CVB including all types of data necessary for supporting ongoing, future, and potential future commercial CCS options (CalCCS.net)
- Technical Assistance:
 - MRV plan development
 - Pore pressure management and optimization
 - Impact assessments
 - Legal and Regulatory Issues
 - Carbon transport and safety assistance