



## BUSINESS CONTACT

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## COST

**Length of Contract**  
24 Months

**Total Project Value**  
\$3,550,912

**DOE/Non-DOE Share**  
\$1,600,000/1,950,912

The West Coast Region accounts for more than 11% of the nation's CO<sub>2</sub> emissions, with the bulk of these being from California. Total CO<sub>2</sub> emissions from the industrial and utility sectors, which have point sources that are most amenable to capture, are about 56 million tons of carbon equivalent per year. The region offers significant potential for sequestration in porous sediments, especially the brine formations of the Central Valley. Of particular interest is the use of CO<sub>2</sub> for enhanced oil recovery. The West Coast Region has a wealth of forest and agricultural lands, where improved management practices could also sequester substantial quantities of carbon. Technology discussions, regional meetings and joint research will be used to maintain an open dialogue with stakeholders so that a regional strategy for terrestrial and geologic carbon sequestration projects that meet the area's near- and long-term needs can be developed. Demonstration projects will be identified, and plans for their effective implementation will be developed.

## Primary Project Goal

The overall goal of this project is to identify the most cost effective, technically feasible, and publicly acceptable options for terrestrial and geologic carbon sequestration in the region.

## Objectives

- To develop a geographic information system (GIS) database for characterizing the sources, the potential sinks, and the transportation infrastructure for CO<sub>2</sub> in the region.
- To evaluate region-specific issues affecting technology deployment.
- To implement local and regional public outreach programs.
- To identify optimal demonstration opportunities for geologic and terrestrial sequestration in the region.

## Benefits

This project will benefit the U.S. by providing a comprehensive assessment of the sources and potential sinks for CO<sub>2</sub> in the West Coast Region. This data can be integrated with the data from other partnerships to provide a data base covering the entire nation. This effort will also provide information to evaluate potential pilot sequestration projects in the West Coast Region. The project will promote cooperation among stakeholders and ensure public acceptance of CO<sub>2</sub> sequestration, should that become necessary.

## PARTNERS

Advanced Resources International  
Aera  
American Petroleum Institute  
Automated Geographic Reference Center  
B C Ministry of Energy and Mines  
BKI  
British Petroleum  
California Climate Registry  
California Department of Forestry and Fire Protection  
California Department of Oil Gas and Geothermal Resources  
California Energy Commission  
California Geologic Survey  
California Polytechnic Institute

California State University at Bakersfield  
Cement Industry Environmental Consortium  
ChevronTexaco  
Clean Energy Systems, Inc.  
ConocoPhillips  
CSU, School of Natural Sciences & Mathematics  
Dept. Env., City and County of San Francisco  
Electric Innovation Institute  
EPA-California  
Golder Associates  
Greenwood Enterprises  
Kinder Morgan CO<sub>2</sub>  
Lawrence Berkeley National Laboratory

Lawrence Livermore National Laboratory  
M.Theo Kearney Foundation of Soil Science  
Massachusetts Institute of Technology (MIT)  
National Council for Air and Stream Improvement  
Nevada Bureau of Mines and Geology  
Nexant Inc.  
Occidental Petroleum  
Oregon Department of Forestry  
Pacific Forest Trust  
PacifiCorp  
Region 9 EPA  
Salt River Project

San Francisco Department of the Environment  
Science Strategies  
SFA Pacific  
Shell  
Sierra Pacific Resources  
Stanford Global Climate Energy Project  
Terralog Technologies  
TransAlta  
University of Alaska Fairbanks  
Washington State Department of Natural Resources  
Western Interstate Energy Board  
Western States Petroleum Association (WSPA)  
Winrock International