


WEST
COAST
REGIONAL
CARBON
SEQUESTRATION
PARTNERSHIP
westcarb.org





WESTCARB Overview

WESTCARB Website


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*Berkeley, CA
November 9, 2005*





Website Overview

- www.westcarb.org; mirror site maintained at www.bki.com/westcarb
- Project explanation in plain language; primer on carbon sequestration
- List of partners
- Information on Phase I results and Phase II activities
- Links to news stories on WESTCARB and carbon sequestration
- Library of WESTCARB papers and presentations



WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP 2



Website Overview (cont'd)

- Access to WESTCARB GIS “atlas”
- Password-protected area for partners
 - Contact lists
 - Project documents, such as schedules and progress reports
 - Draft reports and papers for project team review
 - Calendar of WESTCARB conference calls and meetings
 - Links to DOE resources and other Regional Partnerships



WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP 3



westcarb.org Home Page

WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP
westcarb.org

HOME CONTACT US PARTNER LOG-IN

CO₂ SEQUESTRATION
geologic transport
terrestrial capture

WESTCARB is a collaborative research project bringing together dedicated scientists and engineers at 70 public agencies, private companies, and nonprofits to identify and validate the best regional opportunities for keeping CO₂ out of the atmosphere and thereby reducing mankind's impact on the climate.


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WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP 4



westcarb.org Project Overview



The screenshot shows the 'westcarb.org' website. At the top, there is a navigation bar with links for 'HOME', 'CONTACT US', and 'PARTNER LOG-IN'. Below this is a banner image with the text 'WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP'. A left-hand menu is visible with categories like 'About WESTCARB', 'OVERVIEW', 'Our Team', 'Our Goals', 'What is Sequestration?', 'Activities', 'News & Information', and 'Carbon Atlas'. The main content area is titled 'WESTCARB Overview' and contains the following text:

The West Coast Regional Carbon Sequestration Partnership (known as WESTCARB) is exploring opportunities in six Western states and one province for removing CO₂ from the atmosphere by enhancing natural processes and by capturing it at industrial facilities before it is emitted, both of which will help slow the atmospheric buildup of this greenhouse gas and its associated climatic effects.

WESTCARB will identify the major sources of man-made CO₂ in its territory; assess the status and cost of technologies for separating CO₂ from process and exhaust gases at large industrial plants; determine the potential for storing captured CO₂ in leak-proof geologic formations; establish the extent to which changes in the management of forests, rangelands, and agricultural lands could increase carbon storage by plants and soil; and assess the logistics of building pipelines to move CO₂ from the points of capture to the points of storage. Economic co-benefits will be estimated as well, such as improved cropland and timber resource values and increased oil and gas production through CO₂-enhanced recovery.

Established in Fall 2003, WESTCARB is one of seven research partnerships co-funded by the U.S. Department of Energy (DOE) to characterize regional carbon sequestration opportunities and conduct pilot-scale validation tests.

At the bottom of the page, there is a footer with the 'westcarb.org' logo, the text 'WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP 5', and two circular logos.

westcarb.org Sequestration Primer



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CO₂ Is a Greenhouse Gas
Carbon dioxide, or CO₂, in the atmosphere reflects the Earth's infrared radiation back to the surface, causing heat to be trapped as in a greenhouse. The amount of CO₂ in the air had been relatively constant for ten thousand years until the Industrial Revolution in the 1800s. Since then, the world's population has grown tremendously, as has the combustion of fossil fuels, especially coal, oil, and natural gas. Because CO₂ is a primary product of combustion, the atmospheric concentration of CO₂ has been on the rise. At the same time, average temperatures throughout much of the world have inched up and other climatic changes have been documented, indicating the connection between our use of fossil fuels and climatic effects.

There's No "Silver Bullet" for Curbing Global CO₂ Emissions
Slowing and ultimately reducing man-made CO₂ emissions is a complex challenge that will require multiple solutions, including more efficient energy use, alternative fuels, electric-drive transportation, electricity from non-CO₂-emitting energy sources, and carbon sequestration.

Carbon sequestration refers to the "capture" of CO₂ and long-term storage away from the atmosphere. CO₂ can be captured in two basic ways—by enhancing natural processes that remove it from the air and by applying industrial processes that remove it from fuel gas or exhaust gas at major "point sources," such as refineries, power plants, or cement plants. No practical means are known for capturing CO₂ from the exhaust of "mobile sources," such as automobiles.

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westcarb.org Sequestration News

Sequestration News

This webpage provides links to announcements, newsletters, project abstracts, and other general news about carbon sequestration. For WESTCARB-specific news links, see [WESTCARB News](#).

Select a link of interest from the list below to view the associated news or informational item.

[The Carbon Sequestration Newsletter](#), a monthly U.S. Department of Energy e-periodical summarizing recent news in the field of carbon sequestration, as well as the latest publications, events and announcements, and legislative activity. Select the "Get the News" link from the Latest News text box on the DOE National Energy Technology Laboratory's Carbon Sequestration Website home page.

[Saline Aquifer CO₂ Storage \(SACS\)](#), a large-scale demonstration of CO₂ injection into an underground saline formation from an offshore natural gas-producing platform in the Sleipner Field between Norway and Scotland.

[CO₂ Capture Project](#), also known as the Carbon Capture Project, a research consortium comprising the U.S. Department of Energy, European Union, Norway Klimatek, and international energy companies, which is developing and demonstrating advanced technologies that can markedly reduce the cost of separating CO₂ from fossil power plant fuel or exhaust gases, processing it for shipping to storage sites, and injecting it into suitable geologic formations.

[The Weyburn CO₂ Monitoring Project](#), an effort by Canadian oil producers

westcarb.org Home Page

WESTCARB Carbon Atlas

The WESTCARB Carbon Atlas is an interactive geographical information system (GIS) showing the location of major "point sources" of CO₂ emissions; geologic formations capable of storing CO₂; rights-of-way for potential CO₂ pipelines; boundaries of publicly owned lands relevant to geologic and terrestrial sequestration opportunity characterization (e.g., national forests); and vital existing features, such as transportation arteries (e.g., interstate highways and railroads), rivers and streams, and jurisdictional boundaries (e.g., state, county, and municipal limits).

Organizing various pieces of data by location—the premise of GIS knowledge bases—is an effective means of combining data from numerous existing public domain sources with new information being developed by WESTCARB. GIS databases are widely used throughout the public and private sectors, and the GIS-based WESTCARB Carbon Atlas will facilitate communication and application of WESTCARB results.

The WESTCARB Carbon Atlas is hosted by the Utah Automated Geographic Reference Center, which is hosting analogous databases for each of the four regional carbon sequestration partnerships in the territory covered by the Western Governors' Association. By working closely with

Location X

- Wetlands
- Highways and Railroads
- Easements
- Property Boundaries
- Utilities
- Streams
- City Boundaries
- Slope or Aspect
- Aerial Imagery