

Carbon Sequestration Project Portfolio



General Information about the Carbon Sequestration R&D Program

- National Map of R&D Projects
- Technology Roadmap and Program Plan
- State Projects Summary Table
- Articles on the Program's Activities
 - Environmental Progress*
 - Energy Conversion and Management*
- Budget
- State Budget Analysis Map

Regional Partnership

- Introduction
- Midwest Partnership
- Southeast Partnership
- Southwest Partnership
- West Coast Partnership
- Great Plains Partnership
- Plains Partnership

CO₂ Capture

- National Map of Projects
- CO₂ Capture Projects by District
- CO₂ Capture Roadmap
- Project Fact Sheets
 - CO₂ Capture Project (CCP), BP
 - Advanced Oxyfuel Boilers, Praxair, Inc.
 - Flue Gas Recirculation, ANL
 - O₂ Firing in Fluidized Beds, ALSTOM
 - CO₂ Hydrate, Nexant
 - Dry Regenerable Solvents, RTI
 - Carbon Dioxide Capture, UTexas at Austin
 - Ceramic Membranes, MPT
 - Polymer Membranes, LANL & INEEL
 - Integrated Modeling Framework for Carbon Management Technologies, CMU
 - Design of Optimized Energy Systems with Capture and Sequestration, PEI
 - Sorbent Development for CO₂ Separation and Removal – PSA & TSA, CMU, Sud Chemie

Sequestration

- National Map of Sequestration Projects
- Sequestration Projects by District
- Sequestration Roadmap
- Project Fact Sheets
 - Unmineable Coal Beds
 - Black Warrior Reservoir, AGS
 - Allison and Tiffany Field Tests, ARI

Introduction and Program Contacts

Technical Contacts

View/Print Full 305 Page Document

Index of Participants

Measurement, Monitoring, and Verification (MM&V)

- National Map of MM&V Projects
- MM&V Projects by District
- MM&V Roadmap
- Project Fact Sheets
 - Terrestrial Systems, Nature Cons.
 - Natural Analogs for Geologic Seq., ARI
 - EOR Modeling & Monitoring, SNL LANL
 - Digital Carbon Atlas (MIDCAB), UK
 - Geologic Storage Integrity, NETL
 - Weyburn CO₂ Sequestration Project
 - Sea Floor Survey of the Sleipner Field, UCSD
 - Carbon Management GIS for the U.S., MIT
 - Non-invasive Soil Carbon Scanning System, BNL
 - Sequestration in Ohio Reclaimed Mine Soils, Ohio State

Breakthrough Concepts

- National Map of Breakthrough Projects
- Breakthrough Projects by District
- Breakthrough Concepts Roadmap
- Project Fact Sheets
 - Recovery & Sequestration of CO₂ by Photosynthesis of Microalgae, Physical Sciences
 - Enhanced Practical Photosynthetic CO₂ Mitigation, Ohio Univ.
 - Advanced CO₂ Cycle Power Generation, Foster Wheeler

Non-CO₂ GHG Mitigation

- National Map of Non-CO₂ GHG Projects
- Non-CO₂ GHG Projects by District
- Non-CO₂ GHG Roadmap
- Project Fact Sheets
 - Full-Scale Bioreactor Landfill, Yolo County
 - Upgrading Methane Streams with Ultra-Fast TSA, Velocys
 - Capture and Use of Coal Mine Ventilation
 - Air Methane, CONSOL

Absorption Behavior, OSU
Physics and Chemistry, NETL

Saline Formations
Optimal Geological Environments, UTexas at Austin
Ohio River Valley, Battelle
Gas/Water/Rock Interactions, NETL
Other
Reclamation of Mine Lands, SFA Univ.
Ocean Sequestration, NETL
Carbon Capture & H₂O Emissions Treatment, TVA
Coal Bed Methane Production from and CO₂ Sequestration in Unmineable Coal Seams, CONSOL
Analysis of Devonian Black Shale for CO₂ Sequestration and Natural Gas Production, Univ. of KY
Feasibility of Large-Scale Ocean Sequestration, MBARI
CO₂ Sequestration in Basalt Formations, PNNL
Restoring Sustainable Forests on Appalachian Mined Lands for Wood Products, Renewable Energy, Carbon Sequestration, and Other Ecosystem Services, Virginia Tech
Carbon Sequestration on Surface Mine Lands, UK
Enhancing Sequestration and Land Reclamation with Combustion By-Products, NETL

General/Mixed Fact Sheets

Technology Fact Sheets

Coal Technologies Offer Capture Benefits
IGCC and CO₂ Enhanced Oil Recovery

Program Fact Sheets

Geologic Sequestration
Terrestrial Sequestration
CO₂ Injection into Oceans
Sequestration Through Enhanced Oil Recovery
Mineral Carbonation Study Program

R&D Fact Sheets

Carbon Sequestration Science
Sorbent and Catalyst Preparation
In-situ Reaction Studies
Air Pollution Research Facilities
Modular CO₂ Capture Facility