

Active Sequestration Projects Summary Table – by State

Alabama	Primary Contractor	Area
Oxygen-Fired CO ₂ Recycle for Application to Direct CO ₂ Capture From Coal-Fired Power Plants	SRI International	Capture
Discrete Fracture Network Models for Risk Assessment of Carbon Sequestration in Coal	Geological Survey of Alabama	MMV
California		
Fabrication And Scale-Up of Polybenzimidazole (Pbi) Membrane Based System for Pre-Combustion Based Capture of Carbon Dioxide	SRI International	Capture
International Network on Biofixation of CO ₂ and Greenhouse Gas Abatement with Microalgae	Beneman Associates	Capture
Zero Emission Technology Research: Fundamental Investigations of CO ₂ Storage in Sedimentary Basins	Lawrence Berkeley National Laboratory (LBNL)	MMV
Regional Modeling of Large-Scale Hydrologic Impact of CO ₂ Storage	Lawrence Berkeley National Laboratory (LBNL)	MMV
Early Remote Risk Assessment Technology	Physical Optics Corporation	MMV
Field-Deployable Gas Analyzer for MMV Applications	Los Gatos Research	MMV
Geoscience Technology Development for Zero Emission Power Plants	Lawrence Livermore National Laboratory (LLNL)	MMV
Fault Geomechanics and Carbon Dioxide Leakage Applied to Geologic Storage	Lawrence Livermore National Laboratory (LLNL)	MMV
Low Cost Open-Path Instrument for Monitoring Atmospheric Carbon Dioxide at Sequestration Sites	California Institute of Technology	MMV
CO ₂ SINK (German) Collaboration	Lawrence Berkeley National Laboratory (LBNL)	MMV
Modeling the Resolution of Inexpensive, Novel Non-Seismic Geophysical Monitoring Tools to Monitor CO ₂ Injection into Coal Beds	Lawrence Berkeley National Laboratory (LBNL)	MMV
Feasibility of Large-Scale CO ₂ Ocean Sequestration	Monterey Bay Aquarium Research Institute	Seq
GEO-SEQ Project/LBNL	Lawrence Berkeley National Laboratory (LBNL)	SEQ- MMV
Geological Sequestration of CO ₂ : GEO-SEQ/LLNL	Lawrence Livermore National Laboratory (LLNL)	SEQ- MMV
Delaware		
Intelligent Bioreactor Management Information System (IBM-IS) for Mitigation of Greenhouse Gas Emissions	University of Delaware	Non-CO ₂

Illinois

CO2 Removal from Flue Gas Using Microporous Metal Organic Frameworks	UOP LLC	Capture
Jupiter Oxycombustion and Integrated Pollutant Removal for the Existing Coal Fired Power Generation Fleet	Jupiter Oxygen Corporation	Capture
CO2 Capture for PC-Boiler Using Flue-gas Recirculation: Evaluation of CO2 Capture/Utilization Disposal Options	Argonne National Laboratory (ANL)	Capture
Stored CO2 & Methane Leakage Risk Assessment and Monitoring Tool Development: CO2 Capture Project Phase 2	BP North America	MMV

Indiana

A Novel Approach to Experimental Studies of Mineral Dissolution Kinetics	Indiana University	Breakthrough
Ionic Liquids: Breakthrough Absorption Technology for Post-Combustion CO2 Capture	University of Notre Dame	Capture
Investigation of Ionic Liquids Within Membranes	University of Notre Dame	Capture

Kansas

National Carbon Sequestration Database and Geographical Information System (NATCARB)	University of Kansas Center for Research	MMV
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Kentucky

Geochemical Analyses of Surface and Shallow Gas Flux and Composition Over a Proposed Carbon Sequestration Site in Eastern Kentucky	University of Kentucky Research Foundation	MMV
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Massachusetts

Development of a Carbon Management Geographic Information System (GIS) for the United States	Massachusetts Institute of Technology	MMV
Laboratory Investigations in Support of Carbon Dioxide-Limestone Sequestration in the Ocean	University of Massachusetts	Seq

Michigan

Strategies to Optimize Microbially-Mediated Mitigation of Greenhouse Gas Emissions from Landfill Cover Soils	University of Michigan	Non-CO ₂
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Minnesota

A New Concept for the Fabrication of Hydrogen Selective Silica Membranes	University of Minnesota	Breakthrough
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Montana

Basic Science of Retention Issues, Risk Assessment & Measurement, Monitoring, & Verification for Geologic CO2 Sequestration	Montana State University	MMV
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N/A

Weyburn Carbon Dioxide Sequestration Project	Natural Resources Canada	MMV
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New Jersey

Pilot-Scale Demonstration Of A Novel, Low-Cost Oxygen Supply Process And Its Integration With Oxy-Fuel Coal-Fired Boilers	The BOC Group	Capture
A Low Energy Low Cost Process for Stripping Carbon Dioxide from Absorbents	AIL Systems, Inc.	Capture

New Mexico

Novel Dual Functional Membrane for Controlling Carbon Dioxide Emissions from Fossil-Fueled Power Plants	University of New Mexico	Breakthrough
Los Alamos FY04 Activities for the Center for Zero Emission Research and Technology	Los Alamos National Laboratory (LANL)	Capture
Syngas Upgrading - A Low Temperature Approach	Los Alamos National Laboratory (LANL)	Capture
High-Temperature Polymer-Based Membrane Systems for Pre-Combustion CO2 Capture	Los Alamos National Laboratory (LANL)	Capture
Sequestration of CO2 in a Depleted Oil Reservoir	Sandia National Laboratories (SNL)	MMV
CO2-Water-Rock Interactions and the Integrity of Hydrodynamic Fields	Los Alamos National Laboratory (LANL)	MMV
Development of Novel Monitoring Tools for Geologic Sequestration	Los Alamos National Laboratory (LANL)	MMV

New York

OTM-Based Oxycombustion for CO2 Capture from Coal Power Plants	Praxair, Inc.	Capture
BNL: In Field, Continuous, Non-Invasive Soil Carbon Scanning System	Brookhaven National Laboratory (BNL)	MMV

North Carolina

Development of a Dry Sorbent-Based Post Combustion CO2 Capture Technology for Retrofit in Existing Power Plants	RTI International	Capture
Bio-Tarp: Reducing Landfill Methane Emissions With Bioactive Alternative Daily Cover	University of North Carolina	Non-CO ₂
Development of Nanofiller-Modulated Polymeric Oxygen Enrichment Membranes for Reduction of Nitrogen Oxides in Coal Combustion	North Carolina A&T State University	Non-CO ₂

North Carolina *continued*

Measurement of Hydrocarbon Evolution from Coal and Petroleum Reservoirs Under Carbon Dioxide Floods	University of North Dakota Energy & Environmental Research Center	Seq
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Ohio

Upgrading Methane Streams With Ultra-Fast TSA	Velocys, Inc.	Non-CO ₂
Metal Monolithic Amine-Grafted Zeolites for CO ₂ Capture	University of Akron	Breakthrough
Development of Cost Effective Oxy-Combustion Technology for Retrofitting Coal-Fired Boilers	Babcock & Wilcox	Capture
Leveraging Regional Exploration to Develop Geologic Framework for CO ₂ Storage in Deep Formations	Battelle Columbus Laboratories	MMV
Assessing Fossil Fuel and Recent Carbon Pools in Reclaimed Mined Soils	Ohio State University	MMV

Oregon

Oxy-Combustion of Fossil Fuels with Carbon Capture	National Energy Technology Laboratory - Albany	Capture
Geological Sequestration: Permanent Storage: Enhancement of Seals	National Energy Tech. Laboratory - Albany	MMV

Pennsylvania

Geological Sequestration - Laboratory Studies	National Energy Technology Laboratory - Pittsburgh	MMV
Capture and Use of Coal Mine Ventilation Air Methane	CONSOL Energy Inc.	Non-CO ₂
Sequestration of Carbon Dioxide Gas in Coal Seams	CONSOL Energy Inc.	Seq

Tennessee

Effects of Temperature and Gas Mixing in Underground Coalbeds	Oak Ridge National Laboratory (ORNL)	Seq
Geological Sequestration of CO ₂ : GEO-SEQ / ORNL	Oak Ridge National Laboratory (ORNL)	SEQ- MMV

Texas

Application of Cutting-Edge 3-D Seismic Attribute Technology to the Assessment of Geological Reservoirs for CO ₂ Sequestration	University of Houston	MMV
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Texas *continued*

Optimal Geological Environments for Carbon Dioxide Disposal in Brine Formations in the United States	University of Texas at Austin (BEG)	Seq
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Utah

Utah Center for Ultra Clean Coal Utilization	University of Utah	Capture
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Virginia

CO2 Capture From Flue Gas by Phase Transitional Absorption	Hampton University	Breakthrough
Application and Development of Appropriate Tools and Technologies for Cost-Effective Carbon Sequestration	The Nature Conservancy (TNC)	MMV
Geologic Sequestration of CO2 in Deep, Unmineable Coalbeds	Advanced Resources International	Seq

Washington

Zero Emissions Research & Technology Center (PNNL)	Pacific Northwest National Laboratory (PNNL)	MMV
Fossil Energy Technology Strategy (PNNL)	Pacific Northwest National Laboratory (PNNL)	MMV
PNNL: CO2 Sequestration in Basalt Formations	Pacific Northwest National Laboratory (PNNL)	Seq
Zero Emissions Research & Technology Center (PNNL)	Pacific Northwest National Laboratory (PNNL)	MMV

West Virginia

Sequestration: Experiments, Simulations, and Field Projects	National Energy Technology Laboratory - Morgantown	MMV
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