

Monitoring, Verification, Accounting, and Assessment Archived Projects

Title	Performer	Last Update
Ambient PM 2.5 Air Sampling & Analysis – The Upper Ohio River Valley Project	ATS-Chester Engineers / Desert Research Institute	9/15/1998
Steubenville Comprehensive Air Monitoring Program	CONSOL Energy Inc. / Wells Cargo / Air Quality Sciences, Inc. / Wheeling Jesuit University / Saint Vincent College / Franciscan University of Steubenville / Optimal Technologies Inc. / Harvard School of Public Health / Ohio University	3/8/2000
National Carbon Sequestration Database and Geographical Information System (NATCARB)	University of Kansas Center for Research	9/27/2000
Environmental Regulatory Analysis	Argonne National Laboratory	1/15/2003
Direct Measurement of Mercury Reactions in Coal Power Plant Plumes	Electric Power Research Institute / Frontier Geosciences, Inc. / University of North Dakota Energy and Environmental Research Center	3/18/2003
Evaluation of the Emission, Transport, and Deposition of Mercury, Arsenic, and Fine Particulate Matter From Coal Based Power Plants in the Ohio River Valley Region	Ohio University / Atmospheric & Environmental Research, Inc. / CONSOL Energy Inc. / ATS-Chester Engineers	4/3/2003
Exploratory Measurements of Hydrate and Gas Compositions	Lawrence Livermore National Laboratory	9/30/2003
Review of State Regulations, Standards, and Practices Related to the Use of Coal Combustion Products	University of North Dakota Energy and Environmental Research Center	9/14/2004
Zero Emissions Research & Technology Center (PNNL)	Pacific Northwest National Laboratory	9/30/2004
Modeling the Resolution of Inexpensive, Novel Non-Seismic Geophysical Monitoring Tools to Monitor CO ₂ Injection into Coal Beds	Lawrence Berkeley National Laboratory	3/9/2005
Instrumentation Systems for Monitoring and Verifying Carbon Sequestration in Terrestrial Systems	Zimmerman Associates, Inc.	4/12/2005
Reactive, Multi-phase Behavior of CO ₂ in Saline Aquifers Beneath the Colorado Plateau	University of Utah	6/30/2005
Near Surface Measurement, Monitoring, and Verification (MMV) for the Midwest Geological Sequestration Consortium	Lawrence Berkeley National Laboratory	10/1/2005
SE Partnership Monitoring Studies	Lawrence Berkeley National Laboratory	10/1/2005
Southeast Regional Partnership Phase II: Gulf Coast Geological Storage Monitoring Support	Lawrence Livermore National Laboratory	10/1/2005
Existing Plant Technology Management Support	RDS, LLC	12/1/2005
Natural Analogs for Geologic Sequestration	Advanced Resources International	3/1/2006
A Sea Floor Gravity Survey of the Sleipner Field to Monitor CO₂ Migration	SCRIPPS (Scripps Institute of Oceanography)	3/1/2006
Validation of Fireside Performance Indices	University of North Dakota Energy and Environmental Research Center	4/1/2006
Field-Deployable Gas Analyzer for MMV Applications	Los Gatos Research	6/28/2006
Fault Geomechanics and Carbon Dioxide Leakage Applied to Geologic Storage	Lawrence Livermore National Laboratory	11/1/2006
Development of Novel Monitoring Tools for Geologic Sequestration	Los Alamos National Laboratory	7/1/2007
Application of Low-Cost Digital Elevation Models to Detect Change in Forest Carbon Sequestration Projects	Winrock International	7/31/2007

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BNL: In Field, Continuous, Non-Invasive Soil Carbon Scanning System	Brookhaven National Laboratory	9/30/2007
Illinois Basin Partnership Phase II Reactive Transport Modeling	Lawrence Livermore National Laboratory	10/1/2007
Carbon Sequestration in Reclaimed Mine Soils of Ohio	Ohio State University	12/31/2007
Sequestration of CO ₂ in a Depleted Oil Reservoir	Sandia National Laboratories	3/31/2008
Sequestration of CO ₂ in a Depleted Oil Reservoir - LANL	Los Alamos National Laboratory	3/31/2008
Development of a Carbon Management Geographic Information System (GIS) for the United States	Massachusetts Institute of Technology	4/1/2008
Weyburn Carbon Dioxide Sequestration Project	NR Canada - Canmet Energy PTRC	4/1/2008
Nepa Environmental Assessments For Regional Carbon Sequestration Field Projects	Mangi Environmental Group, Inc.	5/13/2008
Stored CO₂ and Methane Leakage Risk Assessment and Monitoring Tool Development: CO₂ Capture Project Phase 2	BP North America	6/8/2008
Application and Development of Appropriate Tools and Technologies for Cost-Effective Carbon Sequestration	The Nature Conservancy	7/10/2008
Carbon Sequestration Monitoring Activities	University of Wyoming	9/1/2008
Assessing Fossil Fuel and Recent Carbon Pools in Reclaimed Mined Soils	Ohio State University	9/30/2008
Low Cost Open-Path Instrument for Monitoring Atmospheric Carbon Dioxide at Sequestration Sites	California Institute of Technology	9/30/2008
Basic Science of Retention Issues, Risk Assessment & Measurement, Monitoring, & Verification for Geologic CO₂ Sequestration	Montana State University	4/1/2009
Leveraging Regional Exploration to Develop Geologic Framework for CO₂ Storage in Deep Formations	Battelle Memorial Institute	4/1/2009
Computed Tomography (CT) Scanning for Petrophysical Applications	University of Pittsburgh Carnegie Mellon University Georgie Institute of Technology West Virginia University	8/1/2009
Development of Comprehensive Monitoring Techniques to Verify the Integrity of Geological Sequestration Reservoirs Containing Carbon Dioxide	Carnegie Mellon University Los Alamos National Laboratory Sandia National Laboratory West Virginia University	8/1/2009
Zero Emissions Research and Technology (ZERT) II - Investigating the Fundamental Scientific Issues Affecting the Long-term Geologic Storage of Carbon Dioxide	Montana State University - Montana Hall	4/1/2010
New Approach for Long Term Monitoring of Potential CO₂ Leaks from Geologic Sequestration	Brookhaven National Lab (BNL)	7/1/2010
Integrated Reflection Seismic Monitoring and Reservoir Modeling for Geologic CO₂ Sequestration	Fusion Petroleum Technologies	8/1/2012
Development of a 1 x N Fiber Optic Sensor Array for Carbon Monitoring	Montana State University	8/1/2012
Double-Difference Tomography for Sequestration Monitoring, Verification, and Accounting (MVA)	Virginia Polytechnical Institute	2/28/2013

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Feasibility of Geophysical Monitoring of Carbon-Sequestered Deep Saline Aquifers	University of Wyoming	12/1/2012
Improving the Monitoring, Verification, and Accounting of CO₂ Sequestered in Geologic Systems with Multicomponent Seismic Technology and Rock Physics Modeling	University of Texas at Austin - BEG	8/1/2012
Modeling and Evaluation of Geophysical Methods for Monitoring and Tracking CO₂ Migration in the Subsurface	Ohio State University	6/30/2013
Oak Ridge National Laboratory - GEOSEQ: Monitoring of Geological CO₂ Sequestration Using Isotopes and Perfluorocarbon Tracers (PFTs)	Oak Ridge National Laboratory - ORNL	5/31/2010
Passive Wireless Acoustic Wave Sensors for Monitoring CO₂ Emissions for Geological Sequestration Sites	University of Pittsburgh	6/30/2013
Training Toward Advanced 3-D Seismic Methods for CO₂ Monitoring, Verification, and Accounting	University of Houston	6/30/2013