

Carbon Use and Reuse Archived Projects

Title	Performer	Last Update
Development and Demonstration of a Pilot Scale Facility for Fabrication and Marketing of Lightweight Structural Posts, Crib Members, and Blocks from Coal Combustion By-Products for use in Underground Mines	Southern Illinois University	9/29/1999
Characterization of Coal Combustion By-Products for the Re-Evolution of Mercury into Ecosystems	CONSOL Energy Inc.	8/24/2000
Bioremediation of Petroleum Hydrocarbon Contaminated Sites	Western Research Institute	4/15/2001
Integrated Pyrolysis/Combined Cycle Biomass Power System	Alliant Energy Corporate Svcs., Inc. / Dynamotive Technologies Corporation / Black & Veatch / Iowa State University - Breadshear	9/28/2001
Ash-Based Building Panels Production	Western Research Institute	4/10/2003
Advanced Utility Mercury Sorbent Field Testing Program	Sorbent Technologies Corporation / Western Kentucky University	9/29/2003
Enhanced Practical Photosynthesis Carbon Sequestration	ORNL	9/30/2003
Innovative Protocols for In-Situ MTBE Degradation by Using Molecular Probes - An Advanced Chemical Bio-Oxidation Technique	Western Research Institute	4/10/2004
Feasibility of Utilizing Integrated Gasification Combined Cycle (IGCC) Byproducts for Novel Material Development	Cosmos Technologies, Inc.	9/1/2004
Environmentally Safe, Large Volume Utilization Applications for Coal Gasification By-Products	University of Kentucky Research Foundation	10/1/2004
International Network on Biofixation of CO₂ and Greenhouse Gas Abatement with Microalgae	Beneman Associates	10/1/2004
Advanced Oxidation Technologies in Treating MTBE and Gasoline Contaminants	Western Research Institute	4/1/2005
Strategies to Optimize Microbially-Mediated Mitigation of Greenhouse Gas Emissions from Landfill Cover Soils	University of Michigan	4/28/2005
Bio-Tarp: Reducing Landfill Methane Emissions With Bioactive Alternative Daily Cover	University of North Carolina - Chapel Hill	6/13/2005
High Volume Utilization of Fly Ash Containing Mercury Impregnated Activated Carbon	Ceramatec, Inc.	6/27/2005
Utilize Cementitious High Carbon Fly Ash to Stabilize Cold In-Place Asphalt Pavement as Base Course	Bloom Consultants	6/27/2005
Brominated Sorbents for Small Cold-Side ESPs, Hot-Side ESPs and Fly Ash Use in Concrete	Sorbent Technologies Corporation	9/15/2005
Advanced CO₂ Cycle Power Generation	Foster Wheeler North America Corporation	3/1/2006
Process Design for the Biocatalysis of Value-Added Chemicals from CO₂	University of Georgia	3/1/2006
Bauxite Residue/Brine for CO₂ Sequestration	Alcoa Technology	4/30/2006
Demonstration of Mer-Cure(tm) Technology for Enhanced Mercury Control	ALSTOM Power, Inc. / US Power Plant Laboratories	3/6/2007
Effects of Aging on Treated Activated Carbons	University of North Dakota Energy and Environmental Research Center	6/7/2007
Process Design for the Biocatalysis of Value-Added Chemicals from CO ₂	University of Georgia	7/30/2007

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Intelligent Bioreactor Management Information System (IBM-IS) for Mitigation of Greenhouse Gas Emissions	University of Delaware	4/30/2008
Capture and Use of Coal Mine Ventilation Air Methane	CONSOL Energy Inc.	9/30/2008
Carbon Management Plan for Coal and Biomass to Liquids Plant in Northeast Ohio	Baard Energy, LLC	4/30/2009
Chemical Fixation of CO₂ to Acrylates Using Low-Valent Molybdenum Sources	Brown University	5/31/2013
High Efficiency Solar-based Catalytic Structure for CO₂ Reforming	PhosphorTech Corporation	5/31/2013
Integrated Electrochemical Processes for CO₂ Capture and Conversion to Commodity Chemicals	Massachusetts Institute of Technology	5/31/2013
Beneficial Use of Carbon Dioxide in Precast Concrete Construction	McGill University	5/31/2013
Conversion of CO₂ into Commerical Material Using Carbon Feedstocks	Research Triangle Institute	5/31/2013