



Carbon Sequestration Technology Roadmap and Program Plan, Carbon Capture and Storage Technologies to Fight Global Warming, Government Research Programs (Ringbound Book plus CD-ROM)

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This is an authoritative guide to all aspects of carbon sequestration, carbon capture and storage technologies from the Federal Government! This unique guide, with a ringbound book and CD-ROM, combines the contents of an up-to-date U.S. Department of Energy National Energy Technology Laboratory publication - Carbon Sequestration Technology Roadmap and Program Plan, Ensuring the Future of Fossil Energy Systems through the Successful Deployment of Carbon Capture and Storage Technologies, reproduced in full color, with an additional 13,000 pages of coverage on CD-ROM, revised and expanded for this 2009 edition. To retain fossil fuels as a viable world energy source, carbon capture and storage (CCS) technologies must play a central role. By cost-effectively capturing CO₂ before it is emitted to the atmosphere and then permanently storing or sequestering it, fossil fuels can be used in a carbon constrained world and without constraining economic growth. Absent binding constraints, CO₂ emissions in Organization for Economic Cooperation and Development (OECD) countries - which include the United States, most of Europe, Australia, Korea, New Zealand and Japan-are expected to increase at about 1.1 percent per year through 2030. CO₂ emissions in non-OECD countries outside Europe and Eurasia-including fossil fuel-rich China and India-are expected to grow at 3.0 percent per year, in line with strong economic growth. As a point of reference, the U.S. emitted about 6 billion metric tons of CO₂ in 2005, accounting for about 22 percent of total world CO₂ emissions. On a global scale, CCS technologies have the potential to reduce overall climate change mitigation costs and increase flexibility in reducing greenhouse gas (GHG) emissions. According to the 2005 report, Carbon Dioxide Capture and Storage, by the Intergovernmental Panel on Climate Change (IPCC), the application of CCS technologies in GHG mitigation portfolios could reduce the costs of stabilizing CO₂ concentrations in the atmosphere by 30 percent or more compared to scenarios where CCS technologies are not deployed. Furthermore, a particularly beneficial aspect of certain CCS technologies is that their component parts - carbon capture, transportation, and storage - can utilize technologies adapted from other commercial industries, enhancing the availability and cost competitiveness of CCS technologies as viable mitigation options. The Global Energy Technology Strategy Program (GTSP) - a public and private sector research collaboration comprised of scientists from Battelle, the U.S. Department of Energy (DOE), Pacific Northwest National Laboratory (PNNL), and the Joint Global Change Research Institute (a partnership between PNNL and the University of Maryland) - has identified nearterm, medium-term, and long-term benefits associated with CCS. In the near term, CCS technologies will allow many industries - including electricity generation, refining, chemical production, and steel and cement manufacturing - to chart a viable path forward into a carbon-constrained world. In the medium term, CCS technologies will facilitate a smoother transition of the global economy to a low GHG emissions future. CCS will make valuable commodities like electricity and hydrogen cheaper than they would be if such technologies were not available. DOE is taking a leadership role in the development of CCS technologies. The Carbon Sequestration Program (Program) is managed within the Office of Fossil Energy (FE) and implemented by the National Energy Technology Laboratory (NETL). Book contents: 10-year Milestone for the DOE Carbon Sequestration Program * Program Overview * Program Highlights and Accomplishments * Program

Structure * Program Role * Program Funding * Carbon Sequestration Leadership Forum * Global Climate Change * Cost-effective Capture * Geographical Diversity * Permanence * Monitoring, M

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