

Carbon Capture and Sequestration: Research, Development, and Demonstration at the U.S. Department of Energy



Carbon Capture and Sequestration: Research, Development, and Demonstration at the U.S. Department of Energy

Peter Folger

CRS Report for Congress
Prepared for Members and Committees of Congress

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CARBON CAPTURE AND SEQUESTRATION: RESEARCH, DEVELOPMENT, AND DEMONSTRATION AT THE U.S. DEPARTMENT OF ENERGY

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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. On March 27, 2012, the U. S. Environmental Protection Agency (EPA) proposed a new rule that would limit emissions to no more than 1, 000 pounds of carbon dioxide (CO₂) per megawatt-hour of production from new fossil-fuel power plants with a capacity of 25 megawatts or larger. EPA proposed the rule under Section 111 of the Clean Air Act. According to EPA, new natural gas fired combined-cycle power plants should be able to meet the proposed standards without additional cost. However, new coal-fired plants would only be able to meet the standards by installing carbon capture and sequestration (CCS) technology. The proposed rule has sparked increased scrutiny of the future of CCS as a viable technology for reducing CO₂ emissions from coal-fired power plants. The proposed rule also places a new focus on whether the U. S. Department of Energy's (DOEs) CCS research, development, and demonstration (RD and D) program will achieve its vision of developing an advanced CCS technology portfolio ready by 2020 for large-scale CCS deployment. Congress has appropriated nearly 6 billion since FY2008 for CCS RD and D at DOEs Office of Fossil Energy: approximately 2. 3 billion from annual appropriations and 3. 4 billion from the American Recovery and Reinvestment Act (or Recovery Act). The large and rapid influx of funding for industrial-scale CCS projects from the Recovery Act may accelerate development and deployment of CCS in the United States. However, the future deployment of CCS may take a different course if the major components of the DOE program follow a path similar to DOEs flagship CCS demonstration project, FutureGen, which has experienced delays and multiple changes of scope and design since its inception in 2003. A...

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