

# Overview of the United States Priorities and Research Programs on Carbon Sequestration

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**ABSTRACT:** The Global Climate Change Initiative commits the United States to an aggressive strategy to reduce greenhouse gas intensity by 18% over the next 10 years. Capture, sequestration and mitigation of greenhouse gases is part of this approach. In response to this challenge, the United States' Department of Energy established a Carbon Sequestration Program in 1998, Regional Carbon Sequestration Partnerships in 2003, and FutureGen, the Integrated Sequestration and Hydrogen Research Initiative, in 2003. In conjunction with the Carbon Sequestration Program, the Department of Energy has funded and is funding numerous pilot scale sequestration sites, including carbon sequestration into unminable coal seams, depleted oil and gas reservoirs, saline aquifers and terrestrial sequestration. As part of this effort, Virginia Polytechnic Institute and State University is developing a geographical information system for the state of Virginia to analyze potential coal seams as geologic sinks for carbon dioxide.