



# Prospects for Early Deployment of Power Plants Employing Carbon Capture

By Science Applications International

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0.1in. Stabilization of atmospheric concentration of greenhouse gases, of which CO<sub>2</sub> is the most important, at a level that would prevent dangerous anthropogenic interference with the climate system is a widely accepted policy goal. When concerted actions start to be taken to achieve this goal, fossil generating stations, as large point sources of CO<sub>2</sub>, may be required to make disproportionately large emission reductions because doing so will be cost effective. At present natural gas combined cycle (NGCC) is the technology of choice for providing new electric generating capacity in the U. S. for reasons that include environmental performance, thermal efficiency, high availability compared to renewables, and relatively low capital cost. Relatively low specific carbon emissions (kg C or kg CO<sub>2</sub>/kWh) compared to coal generators is another attraction of NGCC. Yet NGCC cannot be the only response of the electric power industry to the challenge of global warming even if affordable supplies of natural gas were assured into the indefinite future. Climate modelers estimate that upwards of 60% reduction in greenhouse gas emissions from current levels will be needed...



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