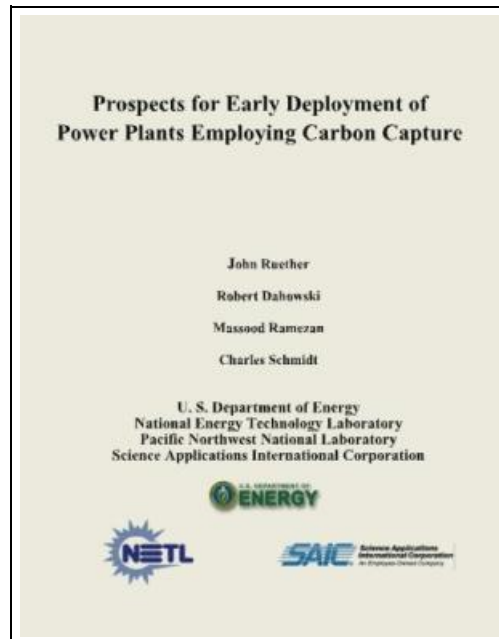


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PROSPECTS FOR EARLY DEPLOYMENT OF POWER PLANTS EMPLOYING CARBON CAPTURE



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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Stabilization of atmospheric concentration of greenhouse gases, of which CO₂ is the most important, at a level that would prevent dangerous anthropogenic interference with the climate system¹ 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 CO₂, 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 CO₂/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 to stabilize atmospheric composition. That is a greater reduction than could be achieved even if all coal fired units were replaced with state-of-art NGCC. This paper invites serious consideration of fossil fueled electricity generation technologies that capture nominally 90% of CO₂ emissions and use the CO₂ to conduct enhanced oil recovery. Carbon sequestration of this kind represents a fundamentally different approach to reducing carbon emissions that has potential not less than traditional approaches such as improvement of thermal efficiency of generation, improvement of end use efficiency, and use of renewables. There is no immediate prospect for commercial deployment of fossil...



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