



# **Novel Approaches to Carbon Management: Separation, Capture, Sequestration, and Conversion to Useful Products - Workshop Report**

*Committee on Novel Approaches to the Management of Greenhouse Gases from Energy Systems, Board on Energy and Environmental Systems, Division on Engineering and Physical Sciences, Board on Earth Sciences and Resources, Division on Earth and Life Studies, National Research Council*

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The National Research Council's (NRC's) Committee on Novel Approaches to the Management of Greenhouse Gases from Energy Systems held a workshop at the Arnold and Mabel Beckman Center in Irvine, California, on February 12-14, 2003, to identify promising lines of research that could lead to currently unforeseen breakthroughs in the management of carbon from energy systems. The information identified by participants in the workshop will be used by the U.S. Department of Energy's (DOE's) Office of Fossil Energy (FE) to award grants for new research in carbon management. During the workshop, invited participants from a variety of disciplines contributed their expertise and creativity to addressing the problem of carbon management. The ideas developed during the workshop were synthesized into this report by the committee, which oversaw the organization and execution of the workshop. However, this workshop summary does not contain any committee conclusions or recommendations, but simply reports on research areas that were identified as promising during the workshop discussions. The purpose of the workshop, as noted, was to identify novel approaches to the management of carbon from energy systems. The workshop is part of a project conducted by the NRC for DOE's Office of Fossil Energy (DOE/FE). DOE/FE will consider the workshop report as it develops a solicitation to be issued in spring 2003. The solicitation will call for research proposals on enabling science and technology research on novel approaches for the management of carbon from energy systems. Chapters 2 through 6 of this report summarize the most promising new ideas on carbon management identified by each of the four subgroups at the workshop. In the respective chapters, the ideas are described, their significance is explained, and research opportunities are listed. Each chapter includes a statement of the scientific and engineering challenges related to its topic. Chapter 6 includes crosscutting issues not specific to one of the four subgroups. The chapters themselves do not include detailed analysis regarding feasibility, energy and mass balance, and so forth, as the workshop's time and scope did not permit this; it is assumed such analyses will be carried out in the research proposals that DOE funds.

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