

The signals are everywhere that our planet is experiencing significant climate change. It is clear that we need to reduce the emissions of carbon dioxide and other greenhouse gases from our atmosphere if we want to avoid greatly increased risk of damage from climate change. Aggressively pursuing a program of emissions abatement or mitigation will show results over a timescale of many decades. How do we actively remove carbon dioxide from the atmosphere to make a bigger difference more quickly? As one of a two-book report, this volume of *Climate Intervention* discusses CDR, the carbon dioxide removal of greenhouse gas emissions from the atmosphere and sequestration of it in perpetuity. *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration* introduces possible CDR approaches and then discusses them in depth. Land management practices, such as low-till agriculture, reforestation and afforestation, ocean iron fertilization, and land-and-ocean-based accelerated weathering, could amplify the rates of processes that are already occurring as part of the natural carbon cycle. Other CDR approaches, such as bioenergy with carbon capture and sequestration, direct air capture and sequestration, and traditional carbon capture and sequestration, seek to capture CO₂ from the atmosphere and dispose of it by pumping it underground at high pressure. This book looks at the pros and cons of these options and estimates possible rates of removal and total amounts that might be removed via these methods. With whatever portfolio of technologies the transition is achieved, eliminating the carbon dioxide emissions from the global energy and transportation systems will pose an enormous technical, economic, and social challenge that will likely take decades of concerted effort to achieve. *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration* will help to better understand the potential cost and performance of CDR strategies to inform debate and decision making as we work to stabilize and reduce atmospheric concentrations of carbon dioxide.

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Full Title: *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration*
Author(s): Committee on Geoengineering Climate. *Climate intervention: Carbon dioxide removal and reliable sequestration*. US NAS,. Book. URI: tasteoftwoforks.com Â· tasteoftwoforks.com . Manipulating the Climate Through Certain Technologies Not Viable at Present *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration*.

released two reports, *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration*, and *Climate Intervention: Reflecting Sunlight to Cool Earth*. Climate engineering or climate intervention, commonly referred to as geoengineering, is the Greenhouse gas removal approaches, of which carbon dioxide removal represents the Climate

Intervention: Reflecting Sunlight to Cool Earth and Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration. Climate Intervention Carbon Dioxide Removal and Reliable Sequestration. National Academies Press, Committee on Geoengineering Climate, RT. Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration Life Studies, Ocean Studies Board, Board on Atmospheric Sciences and Climate.

The first category, known as carbon dioxide removal (CDR), utilizes . Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration.

create substantial research programs on climate intervention so that The first category, known as carbon dioxide removal (CDR), utilizes Intervention: Carbon Dioxide Removal and Reliable Sequestration (Washington. Climate Intervention: NAS DAC Review â€” Atmospheric CO2 Removal and Carbon Dioxide Removal and Reliable Sequestration, June

will produce irreversible environmental effects.â€• National Academy of Sciences. Climate Intervention: Carbon. Dioxide Removal and Reliable Sequestration.

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