



# **CLIMATE INTERVENTION**

**Carbon Dioxide Removal and  
Reliable Sequestration**

NATIONAL RESEARCH COUNCIL  
OF THE NATIONAL ACADEMIES

# Climate Intervention Carbon Dioxide Removal And Reliable Sequestration

**National Research Council, Division on  
Earth and Life Studies, Ocean Studies  
Board, Board on Atmospheric Sciences  
and Climate, Committee on  
Geoengineering Climate: Technical  
Evaluation and Discussion of Impacts**

## **Climate Intervention Carbon Dioxide Removal And Reliable Sequestration:**

**Climate Intervention** National Research Council (U.S.). Committee on Geoengineering Climate, Technical Evaluation and Discussion on Impact, 2015 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 CO<sub>2</sub> 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

**Climate Intervention** National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Board on Atmospheric Sciences and Climate, Committee on Geoengineering Climate: Technical Evaluation and Discussion of Impacts, 2015-06-17 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

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NETs and sequestration This report also defines the essential components of a research and development program including its estimated costs and potential impact

**Climate Intervention** National Research Council (U.S.),2015 *Negative Emissions Technologies and Reliable Sequestration* ,2019 Humans started adding fossil CO<sub>2</sub> to the atmosphere about 300 years ago and accelerated land use emissions by expanding croplands and pastures The unintended consequence of these activities is a 120 ppm increase in atmospheric concentration of CO<sub>2</sub> which is now changing our climate In response international action is being taken to reduce net greenhouse gas emissions and limit global warming below 2 C Most climate mitigation technologies are intended to decrease the rate at which we take additional carbon from fossil fuel reservoirs and ecosystems and add it to the atmosphere as CO<sub>2</sub> These include renewable electricity increased energy efficiency and carbon capture and storage of emissions from fossil power plants This report focuses on the reverse technologies that take CO<sub>2</sub> out of the atmosphere and put it back into geologic reservoirs and terrestrial ecosystems These negative emissions technologies or NETs have received much less attention by researchers than traditional mitigation technologies

Preface **Climate Intervention** National Research Council,Division on Earth and Life Studies,Ocean Studies Board,Board on Atmospheric Sciences and Climate,Committee on Geoengineering Climate: Technical Evaluation and Discussion of Impacts,2015-06-23

The growing problem of changing environmental conditions caused by climate destabilization is well recognized as one of the defining issues of our time The root problem is greenhouse gas emissions and the fundamental solution is curbing those emissions Climate geoengineering has often been considered to be a last ditch response to climate change to be used only if climate change damage should produce extreme hardship Although the likelihood of eventually needing to resort to these efforts grows with every year of inaction on emissions control there is a lack of information on these ways of potentially intervening in the climate system As one of a two book report this volume of Climate Intervention discusses albedo modification changing the fraction of incoming solar radiation that reaches the surface This approach would deliberately modify the energy budget of Earth to produce a cooling designed to compensate for some of the effects of warming associated with greenhouse gas increases The prospect of large scale albedo modification raises political and governance issues at national and global levels as well as ethical concerns Climate Intervention Reflecting Sunlight to Cool Earth discusses some of the social political and legal issues surrounding these proposed techniques It is far easier to modify Earth s albedo than to determine whether it should be done or what the consequences might be of such an action One serious concern is that such an action could be unilaterally undertaken by a small nation or smaller entity for its own benefit without international sanction and regardless of international consequences Transparency in discussing this subject is critical In the spirit of that transparency Climate Intervention Reflecting Sunlight to Cool Earth was based on peer reviewed literature and the judgments of the authoring committee no new research was done as part of this study and all data and information used are from entirely open sources By helping to bring light to this topic area this book will help leaders to be far more

knowledgeable about the consequences of albedo modification approaches before they face a decision whether or not to use them

*Ocean Carbon Dioxide Removal for Climate Mitigation* Romany M. Webb, Korey Silverman-Roati, Michael B. Gerrard, 2023-01-20 Examining the existing legal framework for ocean carbon dioxide removal this forward thinking book explores whether when where and how future research and deployment can take place in the field It provides a detailed exploration of how the ocean could be used to remove and store carbon dioxide from the atmosphere describing five commonly discussed ocean CDR techniques rock based ocean alkalinity enhancement OAE electrochemical OAE ocean fertilization artificial upwelling and downwelling and seaweed cultivation and exploring the legal issues that different techniques could raise

**Geoengineering Discourse Confronting Climate Change** Brynna Jacobson, 2022-07-07 Geoengineering the idea of addressing climate change through large scale technological projects stands out among contested technologies in the degree to which its scope of possibilities and its premise are characterized by global existential risks Despite controversy this field has been shifting toward mainstream consideration *Geoengineering Discourse Confronting Climate Change The Move from Margins to Mainstream in Science News Media and Politics* examines the trajectory of geoengineering through critical discourse analysis of three key genres science policy reports news journalism and congressional hearings Brynna Jacobson explores how reports from distinguished scientific societies have constructed certain notions of legitimacy around geoengineering how narratives within news coverage have reflected and shaped the public discourse and understanding of geoengineering and how geoengineering has garnered political support from both major political parties in the United States Through analysis of discursive conventions within these genres the author reveals the evolution of notions of normalcy legitimacy and imperative around the field of geoengineering

*The Theological and Ecological Vision of Laudato Si'*, 2017-07-27 This volume provides a comprehensive introduction to the spiritual moral and practical themes of Pope Francis encyclical *Laudato Si'* Leading theologians ethicists scientists and economists provide accessible overviews of the encyclical's major teachings the science it engages and the policies required to address the climate crisis Chapters on the encyclical's theological and moral teachings situate them within the Christian tradition and papal teaching Science and policy chapters engaging the encyclical and provide introductions to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change The book provides a guide for those wishing to explore the issues raised by *Laudato Si'* but who lack the specialist knowledge required to know where to begin Aimed at an undergraduate audience this book provides a reliable introduction to the major themes of *Laudato Si'* such as a theology of Creation that embraces the insights of contemporary science a renewed understanding of the human person in relationship to the rest of creation a spiritual vision of love and responsibility for all creation the necessary connection between Christian solidarity with the poor and concern for the environment an introduction to the social encyclical tradition from which *Laudato Si'* both draws and develops

*Routledge Handbook of Environmental Policy* Helge Jörgens, Christoph Knill, Yves Steinebach, 2023-06-28 This

Handbook provides a state of the art review of research on environmental policy and governance The Routledge Handbook of Environmental Policy has a strong focus on new problem structures a perspective that emphasizes the preconditions and processes of environmental policymaking and a comparative approach that covers all levels of local national and global policymaking The volume examines the different conditions under which environmental policymaking takes place in different regions of the world and tracks the theoretical conceptual and empirical developments that have been made in recent years It also highlights emerging areas where new and or additional research and reflection are warranted Divided into four key parts the accessible structure and the nature of the contributions allow the reader to quickly find a concise expert review on topics that are most likely to arise in the course of conducting research or developing policy and to obtain a broad reliable survey of what is presently known about the subject The resulting compendium is an essential resource for students scholars and policymakers working in this vital field

**The Secure and the Dispossessed** Nick Buxton, Ben Hayes, 2015-11-20

While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

*The Economics of Optimal Growth Pathways* S. Niggol Seo, 2023-02-25 Every society aspires to be prosperous It also endeavors to minimize the side effects of economic growth This book entitled The Economics of Optimal Growth Pathways addresses numerous trade offs faced by society to achieve prosperity and explores the best possible growth pathways The theories explored in this book serve as a springboard to better understand key challenges and aspects of the economy including food security land use forest and resource management capital markets and interest rates oil and gas extraction fish and marine resources saving and investment and climate change This book elucidates the concept of optimal economic growth pathways while addressing the challenges faced in natural resources and life on the planet It will be relevant to students and researchers interested in resource and environmental economics

**Integrated Sustainable Urban Water, Energy, and Solids Management** Vladimir Novotny, 2020-01-13 A guide for urban areas to achieve sustainability by recovering water energy and solids Integrated Sustainable Urban Water Energy and Solids Management presents an integrated and sustainable system of urban water used waste water and waste solids management that would save and protect water quality recover energy and other resources from used water and waste solids including plastics and

minimize or eliminate the need for landfills The author a noted expert on the topic explains how to accomplish sustainability with drainage infrastructures connected to receiving waters that protect or mimic nature and are resilient to natural and anthropogenic stresses including extreme events The book shows how to reduce emissions of greenhouse gasses to net zero level through water conservation recycling and generating blue and green energy from waste by emerging emission free technologies while simultaneously installing solar power on houses and wind power in communities Water conservation and stormwater capture can provide good water quality for diverse applications from natural and reclaimed water to blue and green energy and other resources for use by present and future generations This important book Considers municipal solid waste as an ongoing source of energy and resources that will eliminate the need for landfills and can be processed along with used water Presents an integrated approach to urban sustainability Offers an approach for reducing greenhouse gas emissions by communities to net zero Written for students urban planners managers and waste management professionals Integrated Sustainable Urban Water Energy and Solids Management is a must have guide for achieving sustainable integrated water energy and resource recovery in urban areas

#### **International Yearbook of Soil Law and Policy 2022**

Harald Ginzky,Fabiano De Andrade Corrêa,Elizabeth Dooley,Irene L. Heuser,Patricia Kameri-Mbote,Robert Kibugi,Oliver C. Ruppel,2024-03-01 This open access book presents an important discussion on the interface between sustainable soil management and climate mitigation and adaptation It investigates a variety of aspects in this context such as the political and societal consequences for countries in the Global South an assessment of the outcomes of the UNFCCC Conference of Parties held in Glasgow appropriate legal instruments to promote descaling regulatory concepts for negative emissions in soil and land use the debate in Europe on carbon uptake in soils and the climate related policy of the Convention on Biological Diversity Lastly it provides information on recent court rulings on climate mitigation in Germany and Australia and their relevance for sustainable soil management This sixth volume of the International Yearbook of Soil Law and Policy is divided into four parts the first of which deals with various aspects of the theme Climate Mitigation and Adaptation and Sustainable Soil Management The second part covers recent international developments the third presents regional and national reports and the fourth discusses overarching issues Given the range of key topics covered the book offers an indispensable tool for all academics legislators and policymakers working in this field The International Yearbook of Soil Law and Policy series discusses central questions in law and politics with regard to the protection and sustainable management of soil and land at the international national and regional level

#### **The Global and the Local: An Environmental Ethics Casebook** Dale

Murray,2017-03-06 In The Global and the Local An Environmental Ethics Casebook Dale Murray presents fifty one actual unique and compelling case studies The book covers a wide variety of environmental topics from those as global as overfishing climate change ocean acidification and e waste to those topics as local as whether we should place salt on the driveway during winter construct rain gardens or believe we have a duty to hunt The book also features an easy to read yet

rigorous introductory section exposing readers to ethical theories and approaches to environmental ethics By interweaving these theoretical considerations into long and short case studies Murray illuminates a comprehensive range of the most pressing environmental issues facing our biosphere both today and in the future *Imagining Climate Engineering* Jeroen Oomen, 2021-05-03 This book highlights the increasing attention for climate engineering a set of speculative technologies aimed to counter global warming What is the future of the global climate And who gets to decide or even design this future *Imagining Climate Engineering* explores how and why climate engineering became a potential approach to anthropogenic climate change Specifically it showcases how views on the future of climate change and climate engineering evolved by addressing the ways in which climate engineers view its respective physical political and moral domains Tracing the intellectual and political history of dreams to control the weather and climate as well as the discovery of climate change Jeroen Oomen examines the imaginative parameters within which contemporary climate engineering research takes place Introducing the analytical metaphor ways of seeing to describe explicit or implicit visions understandings and foci that facilitate a particular understanding of what is at stake *Imagining Climate Engineering* shows how visions on the knowability of climate tie into moral and political convictions about the possibility and desirability of engineering the climate Marrying science and technology studies and the environmental humanities Oomen provides crucial insights for the future of the climate change debate for scholars and students Creation and Ecology Ronald A. Simkins, 2020-12-24 In this book Ronald A Simkins addresses the current environmental crisis and what the Bible might contribute in response to it The environmental crisis includes loss of biodiversity degradation of the soil and especially climate change If left unchecked these trends will bring about the collapse of human civilization These environmental problems are interrelated and share a similar cause the exploitation of the natural world through an economy structured by capitalist relations of production and powered by the burning of fossil fuels Through our economic relations we have depleted natural resources polluted natural environments and altered natural processes These problems are a product of our political economy which entails not only our politics ideology and religion but primarily our economic system Because the crisis is economic at its core Simkins first sets the Bible within its own economic context exploring how the biblical ideas of creation an understanding of the human relationship to the natural world were the product of the ancient Israelite political economy Then Simkins places the biblical tradition in conversation with the current environmental crisis The result is a far richer view of creation in the biblical tradition and a better understanding of what is at stake in the current environmental crisis **Climate Change 2022 - Mitigation of Climate Change** Intergovernmental Panel on Climate Change (IPCC), 2023-08-17 This Working Group III contribution to the IPCC Sixth Assessment Report provides a comprehensive and transparent assessment of the literature on climate change mitigation The report assesses progress in climate change mitigation options for reducing emissions and enhancing sinks With greenhouse gas emissions at the highest levels in human history this report provides options to achieve

net zero as pledged by many countries The report highlights for the first time the social and demand side aspects of climate mitigation and assesses the literature on human behaviour lifestyle and culture and its implications for mitigation action It brings a wide range of disciplines notably from the social sciences within the scope of the assessment IPCC reports are a trusted source for decision makers policymakers and stakeholders at all levels international regional national local and in all branches government businesses NGOs Available as Open Access on Cambridge Core *Geoengineering our Climate?* Jason J. Blackstock, Sean Low, 2018-09-04 If the detrimental impacts of human induced climate change continue to mount technologies for geoengineering our climate i e deliberate modifying of the Earth s climate system at a large scale are likely to receive ever greater attention from countries and societies worldwide Geoengineering technologies could have profound ramifications for our societies and yet agreeing on an international governance framework in which even serious research into these planetary altering technologies can take place presents an immense international political challenge In this important book a diverse collection of internationally respected scientists philosophers legal scholars policymakers and civil society representatives examine and reflect upon the global geoengineering debate they have helped shape Opening with essays examining the historic origins of contemporary geoengineering ideas the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006 These essays methodically cover the practical and ethical dilemmas geoengineering poses the evolving geoengineering research agenda the challenges geoengineering technologies present to current international legal and political frameworks and differing perceptions of geoengineering from around the world The book concludes with a series of forward looking essays some drawing lessons from precedents for governing other global issues others proposing how geoengineering technologies might be governed if as they begin to emerge from the lab into the real world This book is an indispensable resource for scientists activists policymakers and political figures aiming to engage in the emerging debate about geoengineering our climate

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