



# **Geoengineering: Governance and Technology Policy**

**Kelsi Bracmort**

Specialist in Agricultural Conservation and Natural Resources Policy

**Richard K. Lattanzio**

Analyst in Environmental Policy

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# Geoengineering Governance And Technology Policy

**United States. Congress. House.  
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## **Geoengineering Governance And Technology Policy:**

**Geoengineering** Kelsi Bracmort, 2011 This is a print on demand edition of a hard to find publication The term geoengineering describes this array of technologies that aim through large scale and deliberate modifications of the Earth's energy balance to reduce temperatures and counteract anthropogenic climate change Most of these technologies are at the conceptual and research stages and their effectiveness at reducing global temperatures has yet to be proven Moreover very few studies have been published that document the cost environmental effects sociopolitical impacts and legal implications of geoengineering Contents of this report Intro Geoengineering Governance Geoengineering Technologies The Debate over the Methods of Oversight The Debate over Oversight and Governmental Involvement Conclusion Illus **Geoengineering** Kelsi Bracmort, 2014-12-31 Climate change policies at both the national and international levels have traditionally focused on measures to mitigate greenhouse gas GHG emissions and to adapt to the actual or anticipated impacts of changes in the climate As a participant in several international agreements on climate change the United States has joined with other nations to express concern about climate change Some recent technological advances and hypotheses generally referred to as geoengineering technologies have created alternatives to traditional approaches to mitigating climate change If deployed these new technologies could modify the Earth's climate on a large scale Moreover these new technologies may become available to foreign governments and entities in the private sector to use unilaterally without authorization from the United States government or an international treaty as was done in the summer of 2012 when an American citizen conducted an ocean fertilization experiment off the coast of Canada **Geoengineering** Library of Congress. Congressional Research Service, 2010 Provides background on policy issues science and governance of geoengineering or climate engineering technologies Describes policy parameters under which geoengineering technologies may be considered provides details on selected technologies and their status discusses possible approaches to governmental involvement in and oversight of geoengineering including summary of domestic and international governance structures and institutions that may affect geoengineering projects Transboundary Environmental Governance Simon Marsden, 2016-02-24 Effective protection of the marine and terrestrial environment increasingly requires cooperation between neighbouring States international organizations government entities and communities within States This book analyses key aspects of transboundary environmental law and policy and their implementation in Asia Australasia and Australian offshore territories and surrounding areas beyond national jurisdiction including Antarctica It discusses the potential for implementing key transboundary environmental mechanisms such as the 1991 Convention on Environmental Impact Assessment in a Transboundary Context Espoo Convention and its 1997 Protocol on Strategic Environmental Assessment Kiev Protocol in Australia and Asia drawing on experience from other regions and the potential application of these agreements to all UN member states The book makes an innovative contribution to research in the area of transboundary environmental

governance particularly as it applies to Asia Australasia and international areas supplementing similar research which has predominantly focused on Europe and North America      *Climate Engineering and the Law* Michael B. Gerrard, Tracy Hester, 2018-04-12 Climate change is increasingly recognized as a global threat and is already contributing to record breaking hurricanes and heat waves To prevent the worst impacts attention is now turning to climate engineering the intentional large scale modification of the environment to reduce the impact of climate change The two principal methods involve removing some carbon dioxide from the atmosphere which could consume huge amounts of land and money and take a long period of time and reducing the amount of solar radiation reaching the earth s surface perhaps by spraying aerosols into the upper atmosphere from airplanes which could be done quickly but is risky and highly controversial This is the first book to focus on the legal aspects of these technologies what government approvals would be needed how liability would be assessed and compensation provided if something goes wrong and how a governance system could be structured and agreed internationally      *Research Handbook on International Marine Environmental Law* Rosemary Rayfuse, 2015-10-30 This authoritative Handbook examines the current state of and the future challenges for international law in addressing the key activities that pose threats to the marine environment It provides a critical analysis of and constructive solutions for the international legal regime for the protection of the marine environment and identifies areas of vital research need for the future The in depth chapters written by emerging and established experts in their fields explore the legal framework for protection of the marine environment and look at issues such as pollution seabed activities and climate change as well as discussing the protection of marine biodiversity and considering regional approaches to the protection of the marine environment Each chapter goes beyond a survey of existing law to identify the shortcomings in the legal regime and areas of critical research needed to address these shortcomings This timely book provides significant insights into contemporary issues surrounding the efficacy of the regime created by the 1982 Law of the Sea Convention and details the further work needed to ensure the design and implementation of effective regulation and management of human activities that affect the marine environment Students and academics researching in the law of the sea and environmental law will find the Handbook central to their subject areas The analyses and reform proposals are an invaluable resource for government and policy practitioners as well as IGOs and NGOs involved in marine environmental issues      *The Limits of Maritime Jurisdiction* Clive H. Schofield, Seokwoo Lee, Moon-Sang Kwon, 2013-11-28 *The Limits of Maritime Jurisdiction* edited by Clive Schofield Seokwoo Lee and Moon Sang Kwon comprises 36 chapters by leading oceans scholars and practitioners devoted to both the definition of maritime limits and boundaries spatially and the limits of jurisdictional rights within claimed maritime zones Contributions address conflicting maritime claims and boundary disputes access to valuable marine resources protecting the marine environment maritime security and combating piracy concerns over expanding activities and jurisdiction in Polar waters and the impact of climate change on the oceans including the potential impact of sea level rise on the scope of claims

to maritime zones The volume therefore offers critical analysis on a range of important and frequently increasingly pressing contemporary law of the sea issues      **Climate Change and the Law** Erkki J. Hollo, Kati Kulovesi, Michael

Mehling, 2012-12-04 Climate Change and the Law is the first scholarly effort to systematically address doctrinal issues related to climate law as an emergent legal discipline It assembles some of the most recognized experts in the field to identify relevant trends and common themes from a variety of geographic and professional perspectives In a remarkably short time span climate change has become deeply embedded in important areas of the law As a global challenge calling for collective action climate change has elicited substantial rulemaking at the international plane percolating through the broader legal system to the regional national and local levels More than other areas of law the normative and practical framework dedicated to climate change has embraced new instruments and softened traditional boundaries between formal and informal public and private substantive and procedural so ubiquitous is the reach of relevant rules nowadays that scholars routinely devote attention to the intersection of climate change and more established fields of legal study such as international trade law Climate Change and the Law explores the rich diversity of international regional national sub national and transnational legal responses to climate change Is climate law emerging as a new legal discipline If so what shared objectives and concepts define it How does climate law relate to other areas of law Such questions lie at the heart of this new book whose thirty chapters cover doctrinal questions as well as a range of thematic and regional case studies As Christiana Figueres Executive Secretary of the United Nations Framework Convention on Climate Change UNFCCC states in her preface these chapters collectively provide a review of the emergence of a new discipline its core principles and legal techniques and its relationship and potential interaction with other disciplines      *Climate Change and International Trade*

Rafael Leal-Arcas, 2013-01-01 Rafael Leal Arcas expertly examines the interface of climate change mitigation and international trade law with a view to addressing the question How can we make best use of the international trading system experience to aim at a global climate change agreement The insightful book contributes to developing the architecture for a post 2012 global climate agreement and in doing so seeks and proposes new approaches to climate change mitigation by linking it to the international trade system The author suggests the adoption of a bottom up approach to climate change negotiations by using the evolution of multilateral trade agreements as a model for reaching a global climate treaty He discusses the innovative approach of inserting climate goals within regional trade agreements given their proliferation especially bilateral in the international trading system He explains the trade implications of climate change mitigation policies by analyzing a couple of areas where the international regimes for trade and climate change mitigation may potentially clash Climate Change and International Trade will strongly appeal to undergraduate and graduate students of international and European trade law international and European environmental law as well as social science academics NGOs think tanks practitioners researchers and international organizations will also find plenty of valuable information in

this timely resource      **The Oxford Handbook of Law, Regulation and Technology** Roger Brownsword, Eloise Scotford, Karen Yeung, 2017-07-25 The variety pace and power of technological innovations that have emerged in the 21st Century have been breathtaking These technological developments which include advances in networked information and communications biotechnology neurotechnology nanotechnology robotics and environmental engineering technology have raised a number of vital and complex questions Although these technologies have the potential to generate positive transformation and help address grand societal challenges the novelty associated with technological innovation has also been accompanied by anxieties about their risks and destabilizing effects Is there a potential harm to human health or the environment What are the ethical implications Do these innovations erode or antagonize values such as human dignity privacy democracy or other norms underpinning existing bodies of law and regulation These technological developments have therefore spawned a nascent but growing body of law and technology scholarship broadly concerned with exploring the legal social and ethical dimensions of technological innovation This handbook collates the many and varied strands of this scholarship focusing broadly across a range of new and emerging technology and a vast array of social and policy sectors through which leading scholars in the field interrogate the interfaces between law emerging technology and regulation Structured in five parts the handbook I establishes the collection of essays within existing scholarship concerned with law and technology as well as regulatory governance II explores the relationship between technology development by focusing on core concepts and values which technological developments implicate III studies the challenges for law in responding to the emergence of new technologies examining how legal norms doctrine and institutions have been shaped challenged and destabilized by technology and even how technologies have been shaped by legal regimes IV provides a critical exploration of the implications of technological innovation examining the ways in which technological innovation has generated challenges for regulators in the governance of technological development and the implications of employing new technologies as an instrument of regulatory governance V explores various interfaces between law regulatory governance and new technologies across a range of key social domains      **Geotherapy** Thomas J. Goreau, Ronal W. Larson, Joanna Campe, 2014-12-19 A Practical Get Your Hands in the Soil Manual Global climate change increasing pollution and continued rapid population growth is wreaking havoc on the planet Stabilizing the environment at safe levels requires a large scale restoration of damaged ecosystems Geotherapy Innovative Methods of Soil Fertility Restoration Carbon Sequestration and      **Earth Grab** Diana Bronson, 2011-10-27 Exploiting the general public's growing concerns about the ecological and climate crisis some corporations are proposing quick fixes that threaten to wreak havoc on our planet This book exposes how a biomass economy based on using gene technologies to reprogram living organisms will devastate our ecosystems as well as the human populations of the southern hemisphere by accelerating the wave of land grabs already common in Africa Asia and Latin America Well researched and groundbreaking this analysis explores a number of interrelated topics vis vis the uses of bio

and nano technologies      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      **Engineering the**

**Climate** United States. Congress. House. Committee on Science and Technology,2010      *Engineering the Climate*

Christopher J. Preston,2012-06-28 *Engineering the Climate* The Ethics of Solar Radiation Management discusses the ethical issues associated with deliberately engineering a cooler climate to combat global warming Climate engineering also known as geoengineering has recently experienced a surge of interest given the growing likelihood that the global community will fail to limit the temperature increases associated with greenhouse gases to safe levels Deliberate manipulation of solar radiation to combat climate change is an exciting and hopeful technical prospect promising great benefits to those who are in line to suffer most through climate change At the same time the prospect of geoengineering creates huge controversy Taking intentional control of earth s climate would be an unprecedented step in environmental management raising a number of difficult ethical questions One particular form of geoengineering solar radiation management SRM is known to be relatively cheap and capable of bringing down global temperatures very rapidly However the complexity of the climate system creates considerable uncertainty about the precise nature of SRM s effects in different regions The ethical issues raised by the prospect of SRM are both complex and thorny They include 1 the uncertainty of SRM s effects on precipitation patterns 2 the challenge of proper global participation in decision making 3 the legitimacy of intentionally manipulating the global climate system in the first place 4 the potential to sidestep the issue of dealing with greenhouse gas emissions and 5 the lasting effects on future generations It has been widely acknowledged that a sustained and scholarly treatment of the ethics of SRM is necessary before it will be possible to make fair and just decisions about whether or how to proceed This book including essays by 13 experts in the field of ethics of geoengineering is intended to go some distance towards providing that treatment      Structural Human Ecology Nadine Bratchatzek,Paul Ehrlich,Sylvia Hiller,Roger E. Kasperson,Sandra T.

Marquart-Pyatt,Allan Mazur,Ortwin Renn,Dirk Scheer,2021-09-24 The desire to understand people s influence on ecosystems

has inspired scientific studies and analyses of the stress individuals and communities place on the environment human well being and the tradeoffs between them As an emerging discipline Structural Human Ecology is devoted to unlocking the dynamic links between population environment social organization and technology The new field offers cutting edge research in risk analysis that can be used to evaluate environmental policies and thus help citizens and societies worldwide learn how to most effectively mitigate human impacts on the biosphere The essays in this volume were presented by leading international scholars at a 2011 symposium honoring the late Dr Eugene Rosa then Boeing Distinguished Professor of Environmental Sociology at WSU

New Earth Politics Simon Nicholson, Sikina Jinnah, 2016-03-04 Prominent scholars and practitioners in the field of global environmental politics consider the ecological and political realities of life on the new earth and probe the field's deepest and most enduring questions at a time of increasing environmental stress Arranged in complementary pairs included are reflections on environmental pedagogy analysis of new geopolitical realities reflections on the power of social movements and international institutions and calls for more compelling narratives to promote environmental action

*The Politics of Green Transformations* Ian Scoones, Melissa Leach, Peter Newell, 2015-01-09 Multiple green transformations are required if humanity is to live sustainably on planet Earth Recalling past transformations this book examines what makes the current challenge different and especially urgent It examines how green transformations must take place in the context of the particular moments of capitalist development and in relation to particular alliances The role of the state is emphasised both in terms of the type of incentives required to make green transformations politically feasible and the way states must take a developmental role in financing innovation and technology for green transformations The book also highlights the role of citizens as innovators entrepreneurs green consumers and members of social movements Green transformations must be both top down involving elite alliances between states and business but also bottom up pushed by grassroots innovators and entrepreneurs and part of wider mobilisations among civil society The chapters in the book draw on international examples to emphasise how contexts matter in shaping pathways to sustainability Written by experts in the field this book will be of great interest to researchers and students in environmental studies international relations political science development studies geography and anthropology as well as policymakers and practitioners concerned with sustainability

**Technology and Sustainable Development** Henrik Skaug Sætra, 2023-04-14 Technological change is at the core of all major disruptions in human history and revolutions wars and general development are regularly connected to some sort of technological change However not all development is beneficial While technology has fueled great innovations and rapid development the notion of sustainable development has gained prominence as we now experience serious social economic and environmental challenges This book examines whether technology can be used to fix the very problems caused by technology as the various chapters examine different aspects related to how technology has brought us where we are today which some will say is the best place humanity's been at according to a range of metrics and whether technology helps

or hinders us in our efforts to solve the challenges we currently face The issues discussed cover the three sustainability dimensions and include topics such as the materiality of AI technology in education AI for gender equality innovation and the digital divide and how technology relates to power the political system and capitalism The chapters all build on the theoretical backdrop of technological change sustainable development and the UN s Sustainable Development Goals are actively used throughout this book both to examine how these goals capture or overlook central elements of sustainable development and also to facilitate and create a common framework of engagement between the chapters This book provides a novel combination of traditional theories that are explored through different case studies providing the ground for a better understanding of how and when technology can and cannot be the enabler of sustainable development It is thus an important resource for students of all disciplines technologists and those developing and applying new technologies It is also a valuable resource for politicians and regulators attempting to harness the power of technology for good while limiting its negative potential The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license Funded by stfold University College

Global Environmental Governance, Technology and Politics Victor Galaz, 2014-04-25 We live on an increasingly human dominated planet Our impact on the Earth has become so huge that researchers now suggest that it merits its own geological epoch the Anthropocene the age of humans Combining theory development and case s

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