

# ENGINEERING THE CLIMATE



The Ethics of Solar Radiation Management

EDITED BY  
CHRISTOPHER J. PRESTON

# Engineering The Climate The Ethics Of Solar Radiation Management

**Sven Ove Hansson, Gertrude Hirsch  
Hadorn**



## **Engineering The Climate The Ethics Of Solar Radiation Management:**

Engineering the Climate Preston, Christopher James Preston, 2012     *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     *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

**The Ethics of Climate Engineering** Toby Svoboda, 2017-05-25

This book analyzes major ethical issues surrounding the use of climate engineering particularly solar radiation management SRM techniques which have the potential to reduce some risks of anthropogenic climate change but also carry their own risks of harm and injustice The book argues that we should approach the ethics of climate engineering via non ideal theory which investigates what justice requires given the fact that many parties have failed to comply with their duty to mitigate greenhouse gas emissions Specifically it argues that climate justice should be approached comparatively evaluating the relative justice or injustice of feasible policies under conditions that are likely to hold within relevant timeframes Likely near future conditions include pessimistic scenarios in which no available option avoids serious ethical problems The book contends that certain uses of SRM can be ethically defensible in some pessimistic scenarios This is the first book devoted to the many ethical issues surrounding climate engineering

**The Argumentative Turn in Policy Analysis** Sven Ove

Hansson, Gertrude Hirsch Hadorn, 2016-05-26 This book describes argumentative tools and strategies that can be used to guide policy decisions under conditions of great uncertainty Contributing authors explore methods from philosophical analysis and in particular argumentation analysis showing how it can be used to systematize discussions about policy issues involving great uncertainty The first part of the work explores how to deal in a systematic way with decision making when there may be plural perspectives on the decision problem along with unknown consequences of what we do Readers will see how argumentation tools can be used for prioritizing among uncertain dangers for determining how decisions should be framed for choosing a suitable time frame for a decision and for systematically choosing among different decision options Case studies are presented in the second part of the book showing argumentation in practice in the areas of climate geoengineering water governance synthetic biology nuclear waste and financial markets In one example argumentation analysis is applied to proposals to solve the climate problem with various technological manipulations of the natural climate system such as massive dispersion of reflective aerosols into the stratosphere Even after a thorough investigation of such a proposal doubt remains as to whether all the potential risks have been identified In such discussions conventional risk analysis does not have much to contribute since it presupposes that the risks have been identified whereas the argumentative approach to uncertainty management can be used to systematize discussions

**Theological and Ethical Perspectives on Climate Engineering** Forrest Clingerman, Kevin J. O'Brien, 2016-09-09

Using the resources of theology and ethics to bring religion into the climate engineering debate this book considers the moral questions raised by scientists engineers and

philosophers while adding new questions and insights to the debate Readers new to the discussion will be introduced in an engaging and thoughtful manner while those who already work on this issue will wrestle with it in a new way

*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 **Climate**

**Geoengineering: Science, Law and Governance** Wil Burns, David Dana, Simon James Nicholson, 2021-11-05 The sobering reality of the disconnect between the resolve of the world community to effectively address climate change and what actually needs to be done has led to increasing impetus for consideration of a suite of approaches collectively known as climate geoengineering or climate engineering Indeed the feckless response of the world community to climate change has transformed climate geoengineering from a fringe concept to a potentially mainstream policy option within the past decade This volume will explore scientific political and legal issues associated with the emerging field of climate geoengineering The volume encompasses perspectives on both of the major categories of climate geoengineering approaches carbon dioxide removal and solar radiation management **Global Changes** Luca Valera, Juan Carlos Castilla, 2019-11-01 This book offers an authoritative analysis of the challenges that have arisen as a result of modern technologies It covers several environmental problems such as climate change overexploitation of natural resources loss of natural habitats pollution and human population growth and discusses practical scenarios for sustainable human dwelling of our planet Adopting an interdisciplinary approach the first part introduces global changes describing how they are happening in reality and the challenges arising from them The second part introduces methodological approaches borrowed from various disciplines such

as engineering management science philosophy and theology which can help deal with the contemporary challenges resulting from global changes Lastly the third part discusses some of the themes presented in the light of novel concepts such as the Anthropocene and includes interesting proposals and ideas about how human beings could dwell the Earth in this new age Offering a comprehensive theoretical reflection on the relation between technology environment and human beings it also provides a practice oriented guide for researchers and decision makers working on a new ethical paradigm of acting in the Anthropocene **T&T Clark Handbook of Christian Theology and Climate Change** Hilda P. Koster, Ernst M.

Conradie, 2019-12-12 The T these essays are critically engaged by respondents situated in other geographic regions minority communities non Christian traditions or non theological disciplines Structured in seven main parts the handbook explores 1 the need for collaboration with disciplines outside of Christian theology to address climate change 2 the need to find common moral ground for such collaboration 3 the difficulties posed by collaborating with other Christian traditions from within 4 the questions that emerge from such collaboration for understanding the story of God s work and 5 God s identity and character 6 the implications of such collaboration for ecclesial praxis and 7 concluding reflections examining whether this volume does justice to issues of race gender class other animals religious diversity geographical divides and carbon mitigation This rich ecumenical cross cultural conversation provides a comprehensive and in depth engagement with the theological and moral challenges raised by anthropogenic climate change *Geoengineering of the Climate System* R M Harrison, R E

Hester, 2014-05-08 It is generally accepted within the scientific community that anthropogenic emissions of greenhouse gases are primarily responsible for a recent warming in global climate and that current trajectories of emissions may lead to potentially catastrophic changes in climate While reduction in emissions of greenhouse gases and particularly carbon dioxide could lead to a stabilisation of global temperatures this requires international agreements which have yet to be achieved A possible alternative which has been widely mooted is to use methods known as geoengineering as an alternative way of limiting increases in global temperature Geoengineering techniques fall into two main categories of carbon dioxide removal and solar radiation management within each of these there are a number of options Following on from Carbon Capture volume 29 in this series *Geoengineering of the Climate System* presents an overview of the technologies currently being considered as large scale solutions to climate change and considers some of the possible benefits and disadvantages of each Invited contributions have been received by many of the leading experts on these technologies and the volume provides a comprehensive overview of both carbon dioxide reduction and solar radiation management methods These give rise to important ethical and governance issues which are also explored Written with active researchers postgraduate students and policy makers in mind the latest addition to the Issues in Environmental Science Technology series presents a balanced and informed view of this important field of research and is an essential addition to any environmental science library

Geoengineering and Climate Change Martin Beech, 2025-02-11 This important and timely book assembles expert

scientists from both sides of the debate to discuss Earth based and space based climate intervention technologies including the scale deployment risk management and moral philosophy behind these technologies The role that geoengineering might play within the context of global warming amelioration has long been contentious For all this geoengineering is about getting down and dirty with respect to the issue of climate intervention Often dismissed as an option of last resort geoengineering is now emerging as a key component in humanity s drive to bring the impacts of global warming under some form of mitigation and control While geoengineering does not solve the fundamental problem of continued anthropomorphic carbon dioxide emissions the root cause of global warming it is an option that can effectively buy humanity some much needed time Time that is to act positively and time to introduce meaningful emission reductions and deploy large scale sequestration technologies Indeed the failure to meaningfully corral greenhouse gas emission levels and the slow development of large scale carbon capture technologies will by the close of the 21st century likely see global temperatures increase by at least 2 or 3 degrees above pre industrial levels What geoengineering can potentially do for us is to offset the more extreme climate change scenarios that are presently projected to come about An integrated geoengineering program to cool Earth s atmosphere running in parallel with the development of sequestration technologies and substantial emission reductions can work to limit the worst effects of climate change that will without geoengineering surely come about Geoengineering is not a neutral or benign action however and if it is to be deployed then much more research and field testing of ideas and technologies is urgently needed The authors in this book present a cross section of philosophies engineering approaches and reactions to the idea of geoengineering Through their words the reader is introduced to the historical and contemporary debate concerning the potential deployment of geoengineering actions Indeed there are many ways in which geoengineering as a grand worldwide initiative or as a combined set of independent actions might proceed in both the near and the deep future and here the reader is introduced to these topics by experts in their field Audience This book will be of interest to engineers chemists geologists physicists biologists environmentalists meteorologists philosophers mathematicians computer modelers and policy managers General readers interested in geoengineering will find the book very readable and scientifically reliable

**The Oxford Handbook of Law, Regulation and Technology** Roger Brownsword, Eloise Scotford, Karen Yeung, 2017-07-24

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 this 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

**Pandora's Toolbox** Wake Smith, 2022-03-24 Reaching net zero emissions will not be the end of the climate struggle but only the end of the beginning For centuries thereafter temperatures will remain elevated climate damages will continue to accrue and sea levels will continue to rise Even the urgent and utterly essential task of reaching net zero cannot be achieved rapidly by emissions reductions alone To hasten net zero and minimize climate damages thereafter we will also need massive carbon removal and storage We may even need to reduce incoming solar radiation in order to lower unacceptably high temperatures Such unproven and potentially risky climate interventions raise mind blowing questions of governance and ethics Pandora's Toolbox offers readers an accessible and authoritative introduction to both the hopes and hazards of some of humanity's most controversial technologies which may nevertheless provide the key to saving our world

The Palgrave Handbook of Philosophy and Public Policy David Boonin, 2018-10-08 This book brings together a large and diverse collection of philosophical papers addressing a wide variety of public policy issues Topics covered range from long standing subjects of debate such as abortion punishment and freedom of expression to more recent controversies such as those over gene editing military drones and statues honoring Confederate soldiers Part I focuses on the criminal justice system including issues that arise before during and after criminal trials Part II covers matters of national defense and sovereignty including chapters on military ethics terrorism and immigration Part III which explores political participation manipulation and standing includes discussions of issues involving voting rights the use of nudges and claims of equal status Part IV covers a variety of issues involving freedom of speech and expression Part V deals with questions of justice and inequality Part VI considers topics involving bioethics and biotechnology Part VII is devoted to



beginning of life issues such as cloning and surrogacy and end of life issues such as assisted suicide and organ procurement Part VIII navigates emerging environmental issues including treatments of the urban environment and extraterrestrial environments

**Petrified** Joshua Wodak, 2025-04-01 A rupture of life on Earth is currently unfolding What then does this rupture signify not only in terms of being alive during such an upheaval but also in terms of being alive to upheaval itself Petrified Living During a Rupture of Life on Earth takes the reader on a journey deep into the nature of our home to give us the tools to learn how in the middle of that rupture to comport ourselves with honesty clarity culpability and intelligence The purpose of this journey is straightforward to formulate the basis of a philosophy for living during this rupture of life on earth A philosophy for living in the twenty first and last century of life as we have known it on our planet A toolkit as it were for living at the confluence between being petrified at the prospect of extinction and becoming petrified in the most real and physical sense Lyrical playful and deadly serious Petrified aims to provide a new worldview for a new world coming creating a present day fable about achieving fidelity to the vicissitudes of the cosmos Wherein the book asks if desperate times call for desperate measures how can the response be measured against its only true correlate the cosmos **Has It Come to This?** J.P. Sapinski, Holly Jean Buck, Andreas Malm, 2020-11-13 Geoengineering is the deliberate and large scale intervention in the Earth's climate system in an attempt to mitigate the adverse effects of global warming Now that a climate emergency is upon us claims that geoengineering is inevitable are rapidly proliferating How did we get into this What options make it onto the table Which are left out Whom does geoengineering serve These are some of the questions that the thinkers contributing to this volume are exploring *Handbook of U.S. Environmental Policy* David M. Konisky, 2020-04-24 A comprehensive analysis of diverse areas of scholarly research on U S environmental policy and politics this Handbook looks at the key ideas theoretical frameworks empirical findings and methodological approaches to the topic Leading environmental policy scholars emphasize areas of emerging research and opportunities for future enquiry [Values in Climate Policy](#) David Morrow, 2019-10-28 Children born today in the Maldives may someday have to abandon their homeland Rising seas caused by climate change could swallow most of their tiny island nation within their lifetime Their fate symbolizes the double inequity at the heart of climate change those who have contributed the least to climate change will suffer the most from it All is not lost however The scale and impact of climate change depends on the policies that people choose How quickly will we eliminate our greenhouse gas emissions How will we do it Who will pay for it What will we protect through adaptation How will we weigh the fortunes of future generations and the natural world against our own Answers to questions like these reflect a constellation of value judgments that deserve close scrutiny In addition to providing essential background on the science economics and politics of climate change this book explores the values at stake in climate policy with the aim of shrinking the gap between climate ethics and climate policy [The Violence of Climate Change](#) Kevin J. O'Brien, 2017-06-01 Climate change is viewed as a primarily scientific economic or political issue While acknowledging the legitimacy of these

perspectives Kevin J O'Brien argues that we should respond to climate change first and foremost as a case of systematic and structural violence Global warming is largely caused by the carbon emissions of the affluent nations that harm the poor first and worst Climate change is violence because it divides human beings from one another and from the earth O'Brien offers a constructive and creative response to this violence through practical examples of activism and nonviolent peacemaking providing brief biographies of five Christians in the United States John Woolman Jane Addams Dorothy Day Martin Luther King Jr and Cesar Chavez These activists' idealism social commitment and political savvy offer lessons of resistance applicable to the struggle against climate change and for social justice

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