

SYSTEMS THINKING FOR GEOENGINEERING POLICY

HOW TO REDUCE THE THREAT OF DANGEROUS CLIMATE
CHANGE BY EMBRACING UNCERTAINTY AND FAILURE

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Systems Thinking Geoengineering Policy Uncertainty

Evan S. Michelson



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Systems Thinking for Geoengineering Policy Robert Chris, 2015-11-19 Even by the scientists most closely associated with it geoengineering the deliberate intervention in the climate at global scale to mitigate the effects of climate change is perceived to be risky For all its potential benefits there are robust differences of opinion over the wisdom of such an intervention Systems Thinking for Geoengineering Policy is the first book to theorise geoengineering in terms of complex adaptive systems theory and to argue for the theoretical imperative of adaptive management as the default methodology for an effective low risk means of confronting the inescapable uncertainty and surprise that characterise potential climate futures The book illustrates how a shift from the conventional Enlightenment paradigm of linear reductionist thinking in favour of systems thinking would promote policies that are robust against the widest range of plausible futures rather than optimal only for the most likely and also unlock the policy paralysis caused by making long term predictions of policy outcomes a prior condition for policy formulation It also offers some systems driven reflections on a global governance network for geoengineering This book is a valuable resource for all those with an interest in climate change policy geoengineering and CAS theory including academics under and postgraduate students and policymakers

Geoengineering, Persuasion, and the Climate Crisis Ehren Helmut Pflugfelder, 2022-12-13 A rhetorical exploration of an underexamined side of climate change the ongoing research into and development of geoengineering strategies Geoengineering Persuasion and the Climate Crisis A Geologic Rhetoric exposes the deeply worrying state of discourse over geoengineering the intentional manipulation of the earth s climate as means to halt or reverse global warming These climate altering projects which range from cloud whitening to carbon dioxide removal and from stratospheric aerosol injection to enhanced weathering are all technological solutions to more complex geosocial problems Geoengineering represents one of the most alarming forms of deliberative discourse in the twenty first century Yet geoengineering could easily generate as much harm as the environmental traumas it seeks to cure Complicating these deliberations is the scarcity of public discussion Most deliberations transpire within policy groups behind the closed doors of climate oriented startups between subject matter experts at scientific conferences or in the disciplinary jargon of research journals Further much of this conversation occurs primarily in the West Ehren Helmut Pflugfelder makes clear how the deliberative rhetorical strategies coming from geoengineering advocates have been largely deceptive hegemonic deterministic and exploitative In this volume he investigates how geoengineering proponents marshal geologic actors into their arguments and how current discourse could lead to a greater exploitation of the earth in the future Pflugfelder s goal is to understand the structure content purpose and effect of these discourses raise the alarm about their deliberative directions and help us rethink our approach to the climate In highlighting both the inherent problems of the discourses and the ways geologic rhetoric can be made productive he attempts to give the geologic a place at the table to better understand the roles that all earth systems continue

to play in our lives now and for years to come *The Governance of Solar Geoengineering* Jesse L. Reynolds, 2019-05-23

Solar geoengineering could reduce climate change but poses risks This volume explores how it is could and should be governed **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 **Policy Legitimacy, Science and**

Political Authority Michael Heazle, John Kane, 2015-10-05 Voters expect their elected representatives to pursue good policy and presume this will be securely founded on the best available knowledge Yet when representatives emphasize their reliance on expert knowledge they seem to defer to people whose authority derives not politically from the sovereign people but from the presumed objective status of their disciplinary bases This book examines the tensions between political authority and expert authority in the formation of public policy in liberal democracies It aims to illustrate and better understand the nature of these tensions rather than to argue specific ways of resolving them The various chapters explore the complexity of interaction between the two forms of authority in different policy domains in order to identify both common elements and differences The policy domains covered include climate geoengineering discourses environmental health biotechnology nuclear power whaling economic management and the use of force This volume will appeal to researchers and to convenors of post graduate courses in the fields of policy studies foreign policy decision making political science environmental studies democratic system studies and science policy studies *Assessing the Societal Implications of*

Emerging Technologies Evan S. Michelson, 2016-05-12 A growing problem of interest in the field of science and technology policy is that the next generation of innovations is arriving at an accelerating rate and the governance system is struggling to catch up Current approaches and institutions for effective technology assessment are ill suited and poorly designed to proactively address the multidimensional interconnected societal impacts of science and technology advancements that are already taking place and expected to continue over the course of the 21st century This book offers tangible insights into the strategies deployed by well known high profile organizations involved in anticipating the various societal and policy implications of nanotechnology and synthetic biology It focuses predominantly on an examination of the practices adopted by the often cited and uniquely positioned Project on Emerging Nanotechnologies in the United States as well as being informed by comparisons with a range of institutions also interested in embedding forward looking perspectives in their respective

area of innovation The book lays out one of the first actionable roadmaps that other interested stakeholders can follow when working toward institutionalizing anticipatory governance practices throughout the policymaking process

The Routledge Companion to Marketing and Society Krzysztof Kubacki, Lukas Parker, Christine Domegan, Linda Brennan, 2022-08-25 The Routledge Companion to Marketing and Society focuses on marketing for social impact as the use of marketing strategies tools and techniques to improve the well being of society As such it does not exclude the use of marketing to increase profit and shareholder value but rather prioritises the social impact of marketing both positive and negative even if largely unintended This companion is a scholarly reference providing an overview of marketing for social impact in terms of its current and emergent themes debates and developments as well as reflections on the future of the field Using marketing tools and techniques for social impact is commonly accepted as an effective commercial strategy e g corporate social responsibility cause related marketing and increasingly accepted as an approach to planned social transformation that can be used to influence positive social change in behaviours such as recycling healthy eating domestic violence and human trafficking This reference volume serves as an authoritative and comprehensive statement on the state of contemporary scholarship focusing on the diverse subject of the social impact of marketing It features 25 chapters written by international subject specialists within six themed sections including consumer issues marketing tools commercial marketing and non profit marketing It will find a global audience of scholars and researchers within marketing and cognate fields interested in using marketing tools and techniques to create social impact in areas such as public health social and behaviour change communication sociology and cultural studies

Joint Fact-Finding in Urban Planning and Environmental Disputes Masahiro Matsuura, Todd Schenk, 2016-10-04 The days of rationalist scientific management and deference to official data are behind us The credibility of experts and the information they provide are regularly challenged officials are routinely provided with conflicting sets of facts as they plan and make decisions and decision makers and stakeholders alike are largely skeptical that technical information will adequately account for the various interests and concerns and lead to the right outcomes They struggle to reconcile technical information with other forms of knowledge and differing interests priorities and perspectives Issues like climate change are complicating matters even further as scientists and technicians must increasingly acknowledge the uncertainty and potential fallibility of their findings and highlight the dynamic nature of the systems they are explaining This book examines how groups looking to plan and make decisions in any number of areas can wade through the imperfect and often contradictory information they have to make fair efficient wise and well informed choices It introduces an emerging and very promising approach called joint fact finding JFF Rather than each stakeholder group marshaling the set of facts that best advance their respective interests and perspectives while discrediting the contradictory facts others provide groups are challenged to collaboratively generate shared sets of facts that all parties accept This book introduces readers to the theory of JFF the value it can provide and how they can adopt this approach in

practice It brings together writings from leading practitioners and scholars from around the world that are at the forefront of the JFF approach to science intensive policymaking urban planning and environmental dispute resolution The first set of chapters outlines the concept of JFF and situates it within other bodies of theory and practice The second set of case based chapters elucidates how JFF is being applied in practice This book delivers a new perspective to scholars in the field of public policy urban planning environmental studies and science and technology studies as well as public officials technical experts policy consultants and professional facilitators

Rethinking Environmental Security Dalby, Simon, 2022-05-06 This timely Handbook on Digital Business Ecosystems provides a comprehensive overview of current research and industrial applications as well as suggestions for future developments Multi disciplinary in scope the Handbook includes rigorously researched contributions from over 80 global expert authors from a variety of areas including administration and management economics computer science industrial engineering and media and communication

Traditions and Trends in Global Environmental Politics Olaf Corry, Hayley Stevenson, 2017-07-20 How can a divided world share a single planet As the environment rises ever higher on the global agenda the discipline of International Relations IR is engaging in more varied and transformative ways than ever before to overcome environmental challenges Focusing in particular on the key trends of the past 20 years this volume explores the main developments in the global environmental crisis with each chapter considering an environmental issue and an approach within IR In the process adjacent fields including energy politics science and technology and political economy are also touched on Traditions and Trends in Global Environmental Politics is aimed at anybody interested in the key international environmental problems of the day and those seeking clarification and inspiration in terms of approaches and theories that decode how the environment is accounted for in global politics It will be an essential resource for students and scholars of global environmental politics and governance environmental studies and IR

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