



Policy Implications of Greenhouse Warming

Mitigation, Adaptation, and the Science Base



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**Rediscovering Geography
Committee, Commission on
Geosciences, Environment and
Resources, Division on Earth and Life
Studies, National Research Council**

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Policy Implications of Greenhouse Warming National Academy of Engineering, National Academy of Sciences, Policy and Global Affairs, Institute of Medicine, Committee on Science, Engineering, and Public Policy, Panel on Policy Implications of Greenhouse Warming, 1992-02-01 Global warming continues to gain importance on the international agenda and calls for action are heightening Yet there is still controversy over what must be done and what is needed to proceed Policy Implications of Greenhouse Warming describes the information necessary to make decisions about global warming resulting from atmospheric releases of radiatively active trace gases The conclusions and recommendations include some unexpected results The distinguished authoring committee provides specific advice for U S policy and addresses the need for an international response to potential greenhouse warming It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how much effort and expense might be required to produce definitive answers The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere offset emissions and assist humans and unmanaged systems of plants and animals to adjust to the consequences of global warming Policy

Implications of Greenhouse Warming Committee on Science, Engineering, and Public Policy (U.S.). Panel on Policy Implications of Greenhouse Warming, 1991 **The Hartwell Approach to Climate Policy** Steve Rayner, Mark Caine, 2014-09-19 The Hartwell Approach to Climate Policy presents a powerful critique of mainstream climate change policies and details a set of pragmatic alternatives based on the Hartwell Group s collective writings from 1988 2010 Drawing on a rich history of heterodox but increasingly accepted views on climate change policy this book brings together in a single volume a series of key related texts that define the Hartwell critique of conventional climate change policies and the Hartwell approach to building more inclusive pragmatic alternatives This book tells of the story of how and why conventional climate policy has failed and drawing from lessons learned how it can be renovated It does so by weaving together three strands of analysis First it highlights why the mainstream approach as embodied by the Kyoto Protocol has failed to produce real world reductions in greenhouse gas emissions and delayed real meaningful progress on climate change Second it explores the underlying political economic and technological factors which form the boundary conditions for climate change policy but which are often ignored by policy makers and advocates Finally it lays out a novel approach to climate change guided centrally by the goal of uplifting human dignity worldwide and the recognition that this can only succeed if pursued pragmatically economically and with democratic legitimacy With contributions from leading scholars in the field this work presents a original critique of climate policy and a constructive primer for how to improve it **Engineering Response to Global Climate Change** Robert G. Watts, 1997-07-30 This book goes beyond the analysis offered by typical works on this subject to propose real solutions to problems caused by changes in the earth s climate From new ways to cut energy consumption and reduce carbon dioxide emissions to discussions of the possibilities of sea walls and climate altering

technologies Engineering Response to Global Climate Change presents new conceptual tools and suggests research necessary for correcting and alleviating problems caused by global warming Engineers are just now being asked to consider the problems of climate change and the possible technological responses This complete reference covers the whole range of potential impacts of climate change and their engineering solutions Of special interest is the chapter on geoengineering which suggests how engineers may someday be able to intervene in planetary processes to reduce the effects of global warming Edited by a regional director of the National Institute for Global Environmental Change and offering the collective expertise of a team of expert authors each renowned in his or her field this book offers thorough coverage of this important topic from an engineering and technology perspective Terrestrial Biospheric Carbon Fluxes Quantification of Sinks and Sources of CO₂ Joe Wisniewski, R. Neil Sampson, 2012-12-06 Towards the Balance and Management of the Carbon Budget of the Biosphere The current state of misunderstanding of the global C cycle and our failure to resolve an issue that has been debated for 100 years Jones and Henderson Sellers 1990 speaks loudly about the limitations of modern science when faced with the complexity of the biosphere Efforts to understand and balance the global C budget have gone through several phases First was a holistic view of the C budget as part of efforts to understand the geochemistry of the Earth e g Clarke 1908 Next came a period of data collection and synthesis which focused on the diversity of sectors of the biosphere This phase culminated in the early 1970 s with the realization that humans were greatly impacting the global C cycle as measured at the Mauna Loa Observatory Keeling et al 1973 New syntheses of the global C budget emerged at this time Woodwell and Pacan 1973 Bolin et al 1979 The next phase was one of controversy and intense focus on particular sectors of the biosphere The controversy rested on discrepancies about the role of the terrestrial biota in the global C cycle and the failure to account for sufficient C sinks to absorb all the C emitted by land use change in the tropics Woodwell et al 1978 1983 Houghton et al 1983

Rediscovering Geography Rediscovering Geography Committee, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1997-04-11 As political economic and environmental issues increasingly spread across the globe the science of geography is being rediscovered by scientists policymakers and educators alike Geography has been made a core subject in U S schools and scientists from a variety of disciplines are using analytical tools originally developed by geographers Rediscovering Geography presents a broad overview of geography s renewed importance in a changing world Through discussions and highlighted case studies this book illustrates geography s impact on international trade environmental change population growth information infrastructure the condition of cities the spread of AIDS and much more The committee examines some of the more significant tools for data collection storage analysis and display with examples of major contributions made by geographers Rediscovering Geography provides a blueprint for the future of the discipline recommending how to strengthen its intellectual and institutional foundation and meet the demand for geographic expertise among professionals and the public **Geoengineering of the Climate System**

Roy Harrison, Ron Hester, 2014-05-30 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

The Earth Transformed Peter Frankopan, 2023-04-18 A NEW YORKER BEST BOOK OF THE YEAR A revolutionary new history that reveals how climate change has dramatically shaped the development and demise of civilizations across time The ebook edition now includes endnotes Anyone who purchased the book previously can re download this updated edition and access the notes Global warming is one of the greatest dangers mankind faces today Even as temperatures increase sea levels rise and natural disasters escalate our current environmental crisis feels difficult to predict and understand But climate change and its effects on us are not new In a bold narrative that spans centuries and continents Peter Frankopan argues that nature has always played a fundamental role in the writing of history From the fall of the Moche civilization in South America that came about because of the cyclical pressures of El Niño to volcanic eruptions in Iceland that affected Egypt and helped bring the Ottoman empire to its knees climate change and its influences have always been with us Frankopan explains how the Vikings emerged thanks to catastrophic crop failure why the roots of regime change in eleventh century Baghdad lay in the collapse of cotton prices resulting from unusual climate patterns and why the western expansion of the frontiers in North America was directly affected by solar flare activity in the eighteenth century Again and again Frankopan shows that when past empires have failed to act sustainably they have been met with catastrophe Blending brilliant historical writing and cutting edge scientific research *The Earth Transformed* will radically reframe the way we look at the world and our future

Scenarios for a Clean Energy Future United States. Department of Energy. Interlaboratory Working Group on Energy-Efficient and Clean Energy Technologies, 2000 **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

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