



UNITED NATIONS ENVIRONMENT PROGRAMME

**AN ANNOTATED BIBLIOGRAPHY
FOR
SELECTED PUBLICATIONS ON CARBON NEUTRAL CARBON TRADING AND
CARBON OFFSETS**

**Compiled by the Sergio Vieira De Mello UN Library in celebration of the World
Environment Day 2008**

WORLD ENVIRONMENT DAY 5 JUNE 2008



TOWARDS A LOW CARBON ECONOMY



UNEP
UNITED NATIONS ENVIRONMENT PROGRAMME

May 2008



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INTRODUCTION

This bibliography provides information about recent publications on the impacts of climate change and available mitigation or adaptation options. It is arranged under the following categories:

- Climate change: general
- Climate and ecosystem change
- Climate change and the global economy
- Climate change policy
- Technology and energy resources
- Carbon markets
- Climate neutrality

The publications, most of which are available in the Sergio Vieira de Mello UN Library in Nairobi, come from a variety of major publishers and distributors. Each entry gives the title of the publication, the author(s) or editors, publisher, publication date, binding (i.e. soft cover or hard cover), paginations, language in which the publication is available, ISBN number, book description/summary and the classification number for publication held in the UN Library in Nairobi.



CLIMATE CHANGE: GENERAL

Carbon War: Global Warming and the End of the Oil Era by Jeremy Leggett

Publisher: Taylor & Francis, Inc.
March 2001
352 pp
ISBN-13: 9780415931021

Book description

Excessive burning of oil, gas, and coal is raising our planet's thermostat to unacceptable levels—a problem which has already resulted in increased natural catastrophes: storms, floods, droughts, and fire. Yet big oil companies have repeatedly hijacked efforts to slow global carbon emissions.

The Carbon War is a major call-to-arms for the safety of our planet. Throughout the last decade, Jeremy Leggett, a distinguished scientist at Oxford University and former director for Greenpeace, has worked doggedly to alert human kind to the threat of ecological catastrophe. He contends that the main enemies—Arab countries, the United States government, oil companies, and automobile manufacturers—have used junk science, an army of lobbyists, and outright lies to ensure that their profits stayed safer than the planet's future.

With the grace of a novelist and the precision of a scientist, Leggett recounts his maddening interactions with scientific councils, international governmental meetings, and business leaders. Still, despite the government's backpedaling on eco-promises, the media's laziness, and fossil fuel company rhetoric, the transition to solar energy is coming, he argues. Called the "best book yet about the politics of global warming" by John Gribbin in the London Sunday Times, *The Carbon War* is a riveting read and a critical contribution to the fight for sustainable energy.

Climate Change: Biological and Human Aspects by Jonathan Cowie (Author)

Publisher: Cambridge University Press
July 2007
Paperback: 504 pp
Language: English
ISBN-10: 0521696194
ISBN-13: 978-0521696197

Book description

In recent years climate change has become recognized as the foremost environmental problem of the twenty-first century. Not only will climate change potentially affect the multibillion dollar energy strategies of countries worldwide, but it also could seriously affect many species, including our own. A fascinating introduction to the subject, this textbook provides a broad review of past, present and likely future climate change from



the viewpoints of biology, ecology and human ecology. It will be of interest to a wide range of people, from students in the life sciences who need a brief overview of the basics of climate science, to atmospheric science, geography, and environmental science students who need to understand the biological and human ecological implications of climate change. It will also be a valuable reference for those involved in environmental monitoring, conservation, policy-making and policy lobbying.

Climate Change: Science, Strategies, & Solutions
by Eileen Claussen, Vicki Arroyo Cochran and Debra P. Davis

Publisher: BRILL
2001
399 pages
ISBN: 9004120246

Book description

It is the greatest environmental challenge of the 21st Century. But what do we truly know about global climate change? And what can we do about it? Most of the world's top scientists agree that emissions of carbon dioxide and other greenhouse gases from human activities such as industrial processes, fossil fuel combustion, and land-use changes are causing the earth to get warmer. Impacts of this warming may include damage to our coastal areas, accelerated rates of species loss, altered agricultural patterns, and increased incidences of infectious diseases. The effects of climate change -- and efforts to mitigate climate change -- could also have substantial economic ramifications. The book presents the latest research and analysis from prominent scientists, economists, academics, and policy-makers, including: "Tom Wigley and "Joel Smith, who, along with other authors of the Science and Impacts chapter, explain the basic science of climate change, the growing evidence that human activities are changing our climate, and the impacts of these changes; "Eileen Claussen, "John Gummer, "Henry Lee, and other authors of the Global Strategies chapter, who describe what nations are or are not doing to address climate change, and the state of international climate talks; "Robert Stavins, "John Weyant, "Ev Ehrlich, and other economists, who explain why economic analyses of climate policy are conducted, why the projected costs of addressing climate change vary so widely among economic models, and how changes driven by today's economy can influence climate policy; "Gov. Jean Shaheen and other authors of the Innovative Solutions chapter, who describe what state and local governments in the United States and multinational companies are doing to monitor and curb greenhouse gas emissions; and "Forest Reinhardt, who offers business leaders advice on steering their companies on a path that is healthy for business as well as the global climate. This publication has also been published in paperback, please click here for details.

Global Climate
by Xavier Rodo (Author), Francisco Comin (Author)

Publisher: Springer
December 2002
Hardcover: 286 pp
Language: English



ISBN-10: 3540438203
 ISBN-13: 978-3540438205

Book description

Throughout the Earth's history, the climate and biosphere have evolved together through a complex chain of interactions, making possible the extraordinary variety of ecosystems and life. These interactions also largely determine the response of the atmosphere to increasing quantities of greenhouse gases caused by human activity. Since the climate system has great inertia, this means that we will have to long bear the consequences of our past and present actions, perhaps in the form of unprecedented climate change. In this book, opinions from experts in different areas provide a detailed snapshot of the current "hotspots" in the mechanisms affecting climate system on our planet. By addressing and clarifying key topics of current climate research, it contributes to a clearer understanding of the factors underlying the debate over global warming.

Global Climate Change and Response of Carbon Cycle in the Equatorial Pacific and Indian Oceans and Adjacent Landmasses, Volume 73 (Elsevier Oceanography Series) (Elsevier Oceanography Series)
by Hodaka Kawahata (Editor), Yoshio Aways (Editor)

Publisher: Elsevier Science
 December 2006
 Hardcover: 530 pp
 Language: English
 ISBN-10: 0444529489
 ISBN-13: 978-0444529480

Book description

To understand the global warming mechanism, global mapping of primary production was carried out under the GCMAPS program. The program was concerned with marine and terrestrial environmental changes, which affect carbon cycle on the regional and global scales. On the regional scale, warm phase of ENSO (El Niño / Southern Oscillation) has been shown to affect economic activities in many countries. The keyword for understanding mechanism of global warming is primary productivity. The earth observation satellites (EOS) like the ADEOS of Japan, and the SeaWiFS, Sea Star and Terra of the U.S.A. provided much required data for modeling and verification of primary production estimates on both land and ocean.

The knowledge gained during the GCMAPS program has been documented in this book. Interpretation of the data suggests that global warming, which causes temperature and sea level rise, and changes in climate and ecosystems, is likely to have the largest influence on mankind. The first half of this book discuss changes in marine environments. Physical and chemical oceanographic properties of the equatorial Pacific and Indian Oceans are presented. Changes in partial pressure of carbon dioxide, flux and composition of settling particles and biological communities in the surface ocean have also been discussed. In addition to this, over hundred years of environmental records based upon coral skeletons are presented. Estimations of primary production and its utilization in validating satellite imagery data were conducted in the western North Pacific. Primary productivity estimates based upon the validated satellite imagery are



presented on the global scale. Climate change modeling of primary production in global oceans is also presented.

The latter half of this book deals with changes in terrestrial environments. Primary productivity estimates for different types of ecosystems (e.g., forest, grassland) are presented together with soil carbon dynamics. Also, biomass and productivity estimation and environmental monitoring based upon remote sensing techniques are presented with a model analysis of the relationship between climate perturbations and carbon budget anomalies in global terrestrial ecosystems. This book elucidates integrated aspects of the global carbon cycle involving marine and terrestrial environments.

**Hot House: Global Climate Change and the Human Condition
by Robert Strom (Author)**

Publisher: Springer
August 2007
Hardcover: 306 pp
Language: English
ISBN-10: 038734179X
ISBN-13: 978-0387341798

Book description

Global warming is extremely complex because it deals with so many different characteristics of the Earth and their complex interactions. It is addressed by almost all sciences including many aspects of geosciences, atmospheric, the biological sciences, and even astronomy. It has recently become the concern of other diverse disciplines such as economics, agriculture, demographics and population statistics, medicine, engineering, and political science. This book attempts to address these complex interactions, integrate them, and derive meaningful conclusions and possible solutions. Robert Strom provides a complete, easy-to-read explanation of past and present global climate change, causes and possible solutions to the problem, including the politics and reasons why this is such a politically charged issue.

**Sudden and Disruptive Climate Change: Its Likelihood, Character and Significance
by Michael C. MacCracken (Editor), John C. Topping (Editor), Frances Moore
(Editor)**

Publisher: Earthscan Publications Ltd.
January 2008
Hardcover: 320 pp
Language: English
ISBN-10: 1844074773
ISBN-13: 978-1844074778

Book description

While changes in emissions and atmospheric concentrations of greenhouse gases are generally projected to be slow and smooth, there are increasing indications that the intensity and impacts of climate change on the environment and society could, at least on a regional basis, be abrupt and bumpy. Surprising and nonlinear responses are likely



to result as warming exceeds certain thresholds, inducing relatively rapid changes in, for example, the Greenland and West Antarctic ice sheets, atmospheric wind and precipitation patterns, coastal inundation, the occurrence of wildfire, and the ranges of plant and animal species.

Written and edited by a transdisciplinary group of internationally respected researchers, this book explores the possibilities of such changes and their significance for our society. In addition to covering the status of the science in a number of the critical areas, it also provides indications that there is a significant potential (and need) for action to limit human-induced perturbations, which can occur more rapidly than governments are currently moving.

The Atlas of Climate Change, Revised Edition: Mapping the World's Greatest Challenge

By Kirstin Dow and Thomas E Downing

2007

Paperback: 128 pp

ISBN 9781844075225

Book description

Today's headlines and recent events reflect the seriousness of climate change. Heatwaves, droughts and flooding are driving people from their homes, destroying livelihoods and causing death among vulnerable populations. Rigorous in its science and insightful in its message, this atlas examines the possible impact of climate change on our ability to feed the world's people, avoid water shortages, conserve biodiversity, improve health, and preserve cities and cultural treasures. It also reviews historical contributions to greenhouse gas levels, progress in meeting Kyoto commitments and local efforts to meet the challenge of climate change. The atlas covers a wide range of topics, including warning signals, future scenarios, vulnerable populations, health impacts, renewable energy and emissions reduction. With more than 50 full colour maps and graphics, this is an essential resource for policy-makers, environmentalists, students and everyone concerned with this pressing subject.

The No-nonsense Guide to Climate Change (No Nonsense Guides)

by Dinyar Godrej (Author)

Publisher: New Internationalist

December 2006

Paperback: 144 pp

Language: English

ISBN-10: 1904456413

ISBN-13: 978-1904456414

Book description

Instances of extreme weather are becoming more frequent, and there is a greater awareness of the disproportionate effect climate change has on poorer communities and countries in the South.

So climate chaos is impossible to ignore . . . or is it? Most governments have responded



slowly, if at all. An attitude of denial means a reluctance to make the radical changes needed.

This No-Nonsense Guide to Climate Change looks at the latest findings, explores the options, and explains why carbon emissions trading and nuclear power are not the answer. It calls for measures to clean up our act, cut energy use, and improve energy efficiency.

Climate change 2007: Synthesis report
By Intergovernmental Panel on Climate Change, Pachauri, R.K. (editor) and
Reisinger, A. (editor)

Publisher: IPCC
 2008
 Paperback: 103 pp.
 Language: English
 ISBN 92-9169-122-4
 Call No: Atm-CI-398 (UN Library Nairobi)

Book description

This Synthesis Report with its Summary for Policymakers is the fourth and final part of the Fourth Assessment Report (AR4) of the Intergovernmental Panel on Climate Change (IPCC) "Climate Change 2007". It draws together and integrates for the benefit of policy makers and those from other professions, up to date policy-relevant scientific, technical and socio-economic information on climate change. This report is intended to assist governments and other decision-makers in the public and private sector in formulating and implementing appropriate responses to the threat of human-induced climate change.

The scope of the Synthesis Report includes the information contained in the three Working Group contributions to the IPCC AR4, the Working Group I report on "The Physical Science Basis", the Working Group II report on "Impacts, Adaptation and Vulnerability" and the Working Group III report on "Mitigation of Climate Change". It also draws on other IPCC reports, in particular recently published IPCC Special Reports. The Synthesis Report was written by a team dedicated to this task drawn from the authors of each Working Group report of the AR4 led by the Chair of the IPCC. As instructed by the Panel, the authors prepared the draft in a non-technical style while ensuring that scientific and technical facts are recorded correctly.

The Synthesis Report addresses a range of broad policy-relevant questions, structured around 6 topic headings agreed by the Panel, and it gives careful attention to cross-cutting themes. It consists of two parts, a Summary for Policymakers (SPM) and a longer report. The sections of the SPM follow largely the topic structure of the longer report, but for brevity and clarity, certain issues covered in more than one topic are summarised in one section of the SPM.

While the Synthesis Report is a largely self-contained document, it needs to be viewed in the context of the other volumes of "Climate Change 2007" and it is recommended that for further details the contributions of the three Working Groups be consulted. Each of the Working Group reports consists of a series of chapters which contain a detailed



scientific technical assessment, a Technical Summary, and a Summary for Policymakers that has been approved by the IPCC line by line.

**Climate Change 2007 - The Physical Science Basis: Working Group I Contribution to the Fourth Assessment Report of the IPCC
by Intergovernmental Panel on Climate Change (Author)**

Publisher: Cambridge University Press
September 2007
Paperback: 1009 pp
Language: English
ISBN-10: 0521705967
ISBN-13: 978-0521705967

Book description

The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group I report brings us completely up-to-date on the full range of scientific aspects of climate change. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.

**Climate Change 2007 - Impacts, Adaptation and Vulnerability: Working Group II contribution to the Fourth Assessment Report of the IPCC
by Intergovernmental Panel on Climate Change (Author)**

Publisher: Cambridge University Press
February 2008
Hardcover: 1000 pp
Language: English
ISBN-10: 0521880106
ISBN-13: 978-0521880107

Book description

The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume brings us completely up-to-date on the vulnerability of socio-economic and natural systems to climate change. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.

**Climate Change 2007 - Mitigation of Climate Change: Working Group III contribution to the Fourth Assessment Report of the IPCC
by Intergovernmental Panel on Climate Change (Author)**

Publisher: Cambridge University Press



November 2007
Hardcover: 896 pp
Language: English
ISBN-10: 0521880114
ISBN-13: 978-0521880114

Book description

The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group III volume is a state-of-the-art assessment of the scientific, technical, environmental, economic, and social aspects of the mitigation of climate change. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.



CLIMATE AND ECOSYSTEM CHANGE

Advances in Earth Science: From Earthquakes to Global Warming (Royal Society Series on Advances in Science) (Royal Society Series on Advances in Science)
by **P. R. Sammonds (Editor), J. M. T. Thompson (Editor)**

Publisher: Imperial College Press

June 2007

Hardcover: 344 pp

Language: English

ISBN-10: 1860947611

ISBN-13: 978-1860947612

Book description

Advances in Earth Science outlines the latest developments and new research directions currently being made world-wide in the earth sciences. It contains invited and refereed articles by leading younger researchers on their cutting-edge research, but aimed at a general scientific audience. This exciting volume explains how powerful methodologies such as satellite remote sensing and supercomputing simulations are now profoundly changing research in the earth sciences; how the earth system is increasingly being viewed in a holistic way, linking the atmosphere, ocean and solid earth; and how the societal impact of the research in the earth sciences has never been more important. Published by Imperial College Press in collaboration with the Royal Society of London, the book features many articles originating from invited papers published in the Philosophical Transactions of the Royal Society. Eleven of the distinguished contributors hold prestigious Royal Society Research Fellowships.

Climate Change and Managed Ecosystems

by **Jagtar Bhatti (Editor), Rattan Lal (Editor), Michael J. Apps (Editor), Mick A. Price (Editor)**

Publisher: CRC

December 2005

Hardcover: 464 pp

Language: English

ISBN-10: 0849330971

ISBN-13: 978-0849330971

Book description

Featuring contributions from leading experts in the field, Climate Change and Managed Ecosystems examines the effects of global climate change on intensively constructed or reconstructed ecosystems, focusing on land use changes in relation to forestry, agriculture, and wetlands including peatlands. The book begins by discussing the fragility of ecosystems in the face of changing climates, particularly through human caused increases in atmospheric GHGs. The chapters delineate how and why the climate has changed and what can be expected to occur in the foreseeable future. They identify the potential adaptation responses to reduce the impacts of a changing climate. Using this information as a foundation, the chapter authors examine what is known



about the impacts of climate on agricultural, forested, and wetland ecosystems. They illustrate the importance of these ecosystems in the global carbon cycle and discuss the potential interaction between terrestrial and atmospheric carbon pools under changing climatic conditions. The book delineates what needs to be done to ensure continued stability in these ecosystems. It includes a description of activities that have been undertaken in the past to identify gaps in understanding GHG emissions from agriculture, forests, and wetlands and their mitigation, as well as current research initiatives to address these gaps. The book presents an overview of how economic reasoning can be applied to climate change and illustrates how terrestrial carbon-uptake credits (offset credits) operate within the Kyoto Protocol framework. By identifying gaps in the current understanding of adaptation of mitigation strategies, the book underscores the need to make management of these ecosystems part of a global.

Climate change and biodiversity
by Thomas E. Lovejoy (Editor), Lee Hannah (Editor)

Publisher: Yale University Press
 April 2005
 Hardcover: 418 pp
 Language: English
 ISBN-10: 0300104251
 ISBN-13: 978-0300104257

Book description

In the past, climate changes have had dramatic repercussions, including large numbers of extinctions and extensive shifts in species ranges. As human-induced climate change accelerates, scientists and policymakers involved with biodiversity conservation need authoritative information in order to design effective plans and responses. *Climate Change and Biodiversity* meets this need. Written for the specialist as well as the concerned citizen, this important book presents a comprehensive view of the newest research and thinking on climate change and biological diversity.

Contributors to the volume, all leading researchers in their fields, discuss: what is now known about past climate changes in different areas of the world; recent trends in climate change and projections for the future; ways that particular organisms are responding to climate change; conservation challenges, including social and policy issues; and other critical topics in climate change biology.

Global Biodiversity in a Changing Environment: Scenarios for the 21st Century
(Ecological Studies)
by F.S. III Chapin (Editor), Osvaldo E. Sala (Editor), Elisabeth Huber-Sannwald
(Editor)

Publisher: Springer
 August 2001
 Hardcover: 392 pp
 Language: English
 ISBN-10: 0387952497
 ISBN-13: 978-0387952499



Book description

The scientific community has voiced two general concerns about the future of the earth. Climatologists and oceanographers have focused on the changes in our physical environment -- changes in the climate, the oceans, and the chemistry of the air we breathe. Environmental biologists, on the other hand, have addressed issues of conservation and the extinction of species. There is increasing evidence that these two broad concerns are intertwined and mutually dependent. Past changes in biodiversity have both responded to and caused changes in Earth's environment. In its discussions of ten key terrestrial biomes and freshwater ecosystems, this volume uses our broad understanding of global environmental change to present the first comprehensive scenarios of biodiversity for the twenty-first century. Combining physical earth science with conservation biology, *Global Biodiversity in a Changing Environment* provides a starting point for regional assessments on all scales. The book will be of interest to those concerned with guiding research on the changing environment of the earth and with planning future policy, especially in accordance with the Global Biodiversity Convention.

Global Change and the Earth System: A Planet under Pressure (Global Change - The IGBP Series), by W. Steffen (Author), A. Sanderson (Author), P. Tyson (Author), J. Jäger (Author), P. Matson (Author), B. Moore III (Author), F. Oldfield (Author), K. Richardson (Author), H.J. Schellnhuber (Author), B.L. Turner II (Author), R.J. Wasson (Author)

Publisher: Springer
 October 2005
 Hardcover: 332 pp
 Language: English
 ISBN-10: 3540265945
 ISBN-13: 978-3540265948

Book description

The interactions between environmental change and human societies have a long, complex history spanning many millennia, but these have changed fundamentally in the last century. Human activities are now so pervasive and profound that they are altering the Earth in ways which threaten the very life support system upon which humans depend. This book describes what is known about the Earth System and the impact of changes caused by humans. It considers the consequences of these changes with respect to the stability of the Earth System and the well-being of humankind; as well as exploring future paths towards Earth System science in support of global sustainability.

**Global Environmental Change
 by R.E. Hester (Editor), R.M. Harrison (Editor)**

Publisher: Royal Society of Chemistry
 April 2002
 Paperback: 192 pp
 Language: English
 ISBN-10: 0854042806
 ISBN-13: 978-0854042807



Book description

Few people today are unaware of the far-reaching effects of global environmental change, and it is now generally accepted that human activities are the root cause of the changes in climate. "Global Environmental Change" provides a balanced overview of the problems associated with global warming. Commencing with a chapter on the evidence for global warming presented by Sir John Houghton, the book then goes on to discuss the many problems associated with air pollution. Subsequent chapters cover rising sea levels, the effect of climate change on human health and the role of environmental performance in industry. This readable and factually detailed book will have wide appeal but will be of particular interest to environmental scientists, industrial managers, policy-makers and students.

The Impact of Carbon Dioxide and Other Greenhouse Gases on Forest Ecosystems (Iufro Research Series, 8)

by David F. Karnosky (Editor), R. Ceulemans (Editor), G. E. Scarascia-Mugnozza (Editor), J. L. Innes (Editor)

Publisher: CABI

October 2001

Hardcover: 368 pp

Language: English

ISBN-10: 0851995519

ISBN-13: 978-0851995519

Book description

Carbon dioxide and other greenhouse gases such as ozone, nitrogen oxides, carbon monoxide and chlorofluorocarbons, are all increasing in the atmosphere. These gases are directly affecting biological processes in trees and ecological processes in forests. This book provides a review, written by expert world forest scientists, of what is known about the impact of elevated CO₂ and other greenhouse gases, on forest ecosystems.



CLIMATE CHANGE AND THE GLOBAL ECONOMY

A Biomass Future for the North American Great Plains: Toward Sustainable Land Use and Mitigation of Greenhouse Warming (Advances in Global Change Research)

by Norman J. Rosenberg (Author)

Publisher: Springer
 January 2007
 Hardcover: 192 pp
 Language: English
 ISBN-10: 1402056001
 ISBN-13: 978-1402056000

Book description

The Great Plains of North America is a major global breadbasket but its agriculture is stressed by drought, heat spells, damaging winds, soil erosion and declining ground water resources. The great inter-annual variability in crop production and declining rural populations weaken an economy already highly dependent upon government support. The regions ecological fragility and economic weakness is attributed by many to removal of its original grass cover. Abandonment of agricultural cropping and restoration of the grass cover is one proposed solution to the regions problems. Simulation models suggest that the agriculture and water resources of the Plains may be stressed even further as its climate changes because of global warming, which is due primarily to the emissions of greenhouse gases from fossil fuel combustion. This book explores the possibility that the ecology and economy of the Plains region (and similar regions) would benefit from the introduction of perennial biomass crops. Biomass production and processing on the Plains (possibly aided by genetic engineering) would partially restore a perennial vegetative cover and create new employment opportunities. Biomass also offers a means of reducing fossil fuel use, providing fuel to local power plants and a feedstock for production of cellulosic ethanol, a gasoline substitute. Interest in biofuels is growing rapidly in public, political and business circles with rising fossil fuel prices and because of a growing recognition of the need for energy independence in petroleum importing countries.

Agriculture: The Potential Consequences of Climate Variability and Change for the United States

by John M. Reilly (Editor)

Publisher: Cambridge University Press
 June 2002
 Paperback: 150 pp
 Language: English
 ISBN-10: 0521016282
 ISBN-13: 978-0521016285

Book description



This volume reports the results of a rigorous and quantitative assessment of the impacts of climate change on U.S. agriculture over the 21st century. It advances work on climate impacts by using scenarios from state-of-the-art climate models and describes the forces likely to shape U.S. agriculture over the next century, including policy and economic issues, and their interaction with climate change. It also offers directions for future research and implications of climate change for agricultural policy.

Climate Change and Global Food Security

by Rattan Lal (Editor), Norman Uphoff (Editor), Bobby A. Stewart (Editor), David O. Hansen (Editor)

Publisher: CRC Press
 May 2005
 Hardcover: 808 pp
 Language: English
 ISBN-13: 9780824725365
 ISBN-10: 0824725360

Book Description

In order to feed their burgeoning populations, developing nations will need to double cereal production by the year 2050. This increase will have to come from existing land, as little potential exists for bringing new land under cultivation -- a daunting prospect when one realizes that increased use and significantly higher concentrations of carbon dioxide have led to a severe depletion of the carbon pool in the world's soils. This is especially telling in developing countries where tropical climates further compromise the soil's ability to recover. In *Climate Change and Global Food Security*, bestselling editor Rattan Lal heads up a team of the world's top soil scientists and ecologists to document the history of this impending agricultural crisis and explore possible solutions. Throughout this timely text, the authors address six complex themes: 1. The impact of projected climate change on soil quality, water resources, temperature regime, and growing season duration on net primary productivity of different biomes 2. Soil carbon dynamics under changing climate 3. The impact of changes in carbon dioxide and ecological environments on agronomic yields and food production in different regions of the world 4. World food demands and supply during the 21st century 5. Policy and economic issues related to carbon trading and enhancing agricultural production 6. Research and development priorities for enhancing soil carbon pool and food security.

Climate Change and Sustainable Development: Prospects for Developing Countries

by Anil Markandya (Editor), Kirsten Halsnaes (Editor)

Publisher: Earthscan Publications Ltd.
 October 2002
 Hardcover: 272 pp
 Language: English
 ISBN-10: 1853839116
 ISBN-13: 978-1853839115

Book description



- * Analyses one of the most critical issues in combating climate change - the options facing developing countries
- * Shows how they can achieve sustainable development outside the Kyoto Protocol (and meet US objections to that treaty)
- * Essential reading for all professionals and researchers involved

The policies pursued by developing countries will be crucial in determining the progress of climate change. Many are industrializing rapidly and the largest, particularly China and India, could have an impact at least as significant as that of the already industrialized economies - the reason given by President Bush for taking the US out of the Kyoto Protocol. The future of sustainable development in large measure depends on developing countries.

This book develops a pragmatic framework for evaluating the climate change options faced by each developing country, depending on their individual circumstances. It assesses present methods, suggesting ways in which these might be improved and proposes ways in which social and developmental aspects can be taken into account. Its discussion of the issues and the methods presented make a substantial contribution to the practical, effective analysis of climate change mitigation options in developing countries.

The book will be invaluable to the professionals, governments, international organizations and environmental groups working on climate change issues, and to researchers, academics and students in economics, environmental and development studies and international affairs.

Economic Models of Climate Change: A Critique by Stephen J. DeCanio (Author)

Publisher: Palgrave Macmillan
October 2003
Paperback: 224 pp
Language: English
ISBN-10: 1403963363
ISBN-13: 978-1403963369

Book description

The climate policy debate has been dominated by economic estimates of the costs of policies to reduce greenhouse gas emissions. Yet the models used to derive those estimates are based on assumptions that have largely gone untested. The conventional approach embodies structural features that rule out alternative market outcomes. In addition, the distribution of "climate rights" is crucial to determining the economic affects of various policies. Bringing these considerations to the forefront shows how domestic and international policy solutions might be found.

Environmental Markets by Geoffrey Heal (Editor), G. M. Heal

Publisher: Columbia University Press
August 2000
280 pp
ISBN-13: 9780231115889



Series: Economics for a Sustainable Earth Series

Book description

As human societies grapple with the scarcity of environmental resources -- clean water, biodiversity, and atmospheric quality -- environmental markets will achieve an important role in the global economy. Along with markets for knowledge, they may become the most important institutions in the world economy during the coming century.

Environmental Markets offers authoritative economic results and cutting-edge ideas on the equity and efficiency of the environmental markets of the future.

The Long-Term Economics of Climate Change: Beyond a Doubling of Greenhouse Gas Concentrations (Advances in the Economics of Environmental Resources, Vol 3)

by D.C. Hall (Editor), R.B. Howarth (Editor)

Publisher: JAI Press

March 2001

Hardcover: 346 pp

Language: English

ISBN-10: 0762303050

ISBN-13: 978-0762303052

Book description

This volume will include scenarios of geophysical and economic impacts from global warming beyond a doubling of greenhouse gases. Analyses will examine geophysical, ecological, and economic impacts, physical and institutional lags, alternative scenarios with and without policy intervention, institutional change, political-economic barriers to effective policy, and prescriptions for change. Perspectives will include those from physical and biological sciences, as well as economics.

The New Economy of Nature: The Quest to Make Conservation Profitable
by Gretchen C. C. Daily, Katherine Ellison, Katherine Ellison

Publisher: Island Press

August 2003

260 pp

ISBN-13: 9781559631549

Book description

Through engaging stories from around the world, the authors introduce readers to a diverse group of people who are pioneering new approaches to conservation. P Daily and Ellison describe the dynamic interplay of science, economics, business, and politics that is involved in establishing these new approaches and examine what will be needed to create successful models and lasting institutions for conservation.



CLIMATE CHANGE POLICY

Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World

by Joseph E. Aldy (Editor), Robert N. Stavins (Editor)

Publisher: Cambridge University Press

September 2007

Paperback: 408 pp

Language: English

ISBN-10: 0521692172

ISBN-13: 978-0521692175

Book description

With increasing greenhouse gas emissions, we are embarked on an unprecedented experiment with an uncertain outcome for the future of the planet. The Kyoto Protocol serves as an initial step through 2012 to mitigate the threats posed by global climate change but policy-makers, scholars, businessmen, and environmentalists have begun debating the structure of the successor to the Kyoto agreement. Written by a team of leading scholars in economics, law and international relations, this book contributes to this debate by examining the merits of six alternative international architectures for climate policy.

Avoiding Dangerous Climate Change.

by Tony Blair (Foreword), Hans Joachim Schellnhuber (Editor), Wolfgang Cramer (Editor), Nebojsa Nakicenovic (Editor), Tom Wigley (Editor), Gary Yohe (Editor), Rajendra Pachauri (Introduction)

Publisher: Cambridge University Press

March 2006

Hardcover: 406 pp

Language: English

ISBN-10: 0521864712

ISBN-13: 978-0521864718

Book description

The impacts of climate change are already being observed in a variety of sectors and there is greater clarity that these changes are being caused by human activities, mainly through release of greenhouse gases. In 2005 the UK Government hosted the Avoiding Dangerous Climate Change conference to take an in-depth look at the scientific issues associated with climate change. This volume presents the most recent findings from the leading international scientists that attended the conference. The topics addressed include critical thresholds and key vulnerabilities of the climate system, impacts on human and natural systems, socioeconomic costs and benefits of emissions pathways, and technological options for meeting different stabilisation levels of greenhouse gases in the atmosphere. The volume provides invaluable information for researchers in environmental science, climatology, and atmospheric chemistry, policy-makers in governments and environmental organizations, and scientists and engineers in industry.



**Climate Change and American Foreign Policy
by Paul G. Harris (Editor)**

Publisher: Palgrave Macmillan
September 2000
Hardcover: 304 pp
Language: English
ISBN-10: 0312233418
ISBN-13: 978-0312233419

Book description

Climate change, sometimes labeled global warming or the enhanced "greenhouse effect," is the extraordinary warming of the Earth from increased concentrations of "greenhouse gases" (GHGs) and the climatic consequences of that warming.

**Climate Change and Developing Countries (Advances in Global Change Research)
by Nijavalli H. Ravindranath (Author), Jayant A. Sathaye (Author)**

Publisher: Springer
July 2002
Hardcover: 300 pp
Language: English
ISBN-10: 1402001045
ISBN-13: 978-1402001048

Book description

Developing countries recognize the importance of their future role in responding to the uncertainty posed by global climate change through appropriate technical, institutional, and policy measures. The ongoing global negotiations are now in a critical phase. A comprehensive assessment and understanding of issues relevant to developing countries, such as greenhouse gas emissions inventories, contribution of developing countries to greenhouse gas emissions, projected climate change, impacts of climate change on the ecosystems and developing economies, mitigation opportunities, and potential socio-economic implications for developing countries, is necessary in order to address the emerging climate change.

This book presents the alternative perspectives of developing countries on opportunities to benefit from the current and emerging global negotiations, institutions, and mechanisms to address climate change. Analyses show that the developing countries, with appropriate policy and institutional responses, could benefit from the global programs for mitigating the climate change. A comprehensive and simplified guide to assist negotiators and policy makers from developing countries, as well as researchers, is provided.

The unique feature of this book is that it provides a comprehensive coverage of different issues such as greenhouse gas emissions, mitigation analysis, impacts and adaptation, policy options, emerging global institutions and mechanisms, and alternative perspectives of developing countries.

The book provides basic information, analysis, and interpretation of various aspects relevant to climate change and will be a valuable asset to researchers, negotiators,



policy makers, and environmental groups engaged in the analysis and discussion of climate change.

**Climate Change and European Leadership: A Sustainable Role for Europe?
(Environment & Policy) by J. Gupta (Editor), M.J. Grubb (Editor)**

Publisher: Springer
July 2000
Hardcover: 372 pp
Language: English
ISBN-10: 079236466X
ISBN-13: 978-0792364665

Book description

This book provides an authoritative and far-reaching, yet controversial analysis of European efforts to implement and secure global action on climate change, and how this relates to wider questions about the role of European and global sustainability. Written by an experienced, international and multidisciplinary team of authors, the book analyzes internal EU policies, negotiating positions and outcomes. It looks at the underlying theoretical disputes that led to a wide range of divergent standpoints within the EU, and presents an intellectual structure based on different modes of leadership. It examines challenges to implementation in terms of policy instruments and governance levels, and the EU's overall strengths, weaknesses opportunities and threats. The book argues that only Europe can lead the next phase of action, and could benefit by doing so - but warns that much needs to change if it is to do so effectively. Readership: A must for all policymakers, researchers, environmental NGOs, stakeholders in industry and others interested in Europe's role in climate change, and in the wider questions surrounding the role and capabilities of the European Union in the 21st Century.

**Climate Change and the Kyoto Protocol: The Role of Institutions
by Michael G. Faure, Joyeeta Gupta, A. Nentjes**

Publisher: Edward Elgar Publishing
2003
361 pp
ISBN 1843762455

Book description

This work brings together researchers from the disciplines of law, economics, political science and sociology to analyse the instruments which have been set to manage climate change and the institutional shifts that are required for the reduction of greenhouse gases (GHGs).



**Climate Change Economics and Policy: An RFF Anthology (RFF Press)
by Michael A. Toman (Editor)**

Publisher: RFF Press
2001
Paperback: 288 pp
Language: English
ISBN-10: 189185304X
ISBN-13: 978-1891853043

Book description

What are the potential adverse impacts of climate change? How can society determine the amount of protection against climate change that is warranted, given the benefits and costs of various policies?

In concise, informative chapters, *Climate Economics and Policy* considers the key issues involved in one of the most important policy debates of our time. Beginning with an overview and policy history, it explores the potential impact of climate change on a variety of domains, including water resources, agriculture, and forests. The contributors then provide assessments of policies that will affect greenhouse gas emissions, including electricity restructuring, carbon sequestration in forests, and early reduction programs. In considering both domestic and international policy options, the authors examine command and control strategies, energy efficiency opportunities, taxes, emissions trading, subsidy reform, and inducements for technological progress. Both policymakers and the general public will find this volume to be a convenient and authoritative guide to climate change risk and policy. It is a useful resource for professional education programs, and an important addition for college courses in environmental economics and environmental studies.

Climate Economics and Policy is a collection of Issue Briefs, prepared by the staff of Resources for the Future (RFF) and outside experts. Many are adapted from pieces originally disseminated on Weathervane, RFF's acclaimed web site on global climate change.

**Climate Change Policy
by Dieter Helm (Editor)**

Publisher: Oxford University Press
July 2005
414 pp
ISBN-13: 9780199281459

Book description

The threat posed by climate change has not yet been matched by international agreements and economic policies that can deliver sharp reductions in green-house gas emissions. The Kyoto Protocol has not received support from the USA, and ratification has been delayed by Russia's reluctance to sign up- both in part because of its costs. Few European countries are on course to meet their own national targets. Nonetheless, even if fully implemented, the Kyoto Protocol would make little difference to the carbon concentrations in the atmosphere. In consequence, there is a search for a post-Kyoto framework, new institutions and new economic policies to spread the costs and meet



them in an economically efficient way. Carbon taxes and emissions trading are, in particular, being established in a number of developed countries. This volume provides an overview of the economics of climate change, the policy options, and the scope for making significant carbon reductions.

**Climate Change Policy After Kyoto: Blueprint for a Realistic Approach
by Warwick J. McKibbin (Author), Peter J. Wilcoxon (Author)**

Publisher: Brookings Institution Press
December 2002
Paperback: 133 pp
Language: English
ISBN-10: 0815706073
ISBN-13: 978-0815706076

Book description

The Kyoto Protocol represents nearly a decade of international effort to reduce carbon emissions. While the treaty is the product of enormous international political effort, it has not been ratified by any major greenhouse emitter and it has been rejected by the United States.

In this controversial new book, Warwick J. McKibbin and Peter Wilcoxon argue that the current approach of international negotiations on the Kyoto Protocol is going completely in the wrong direction. In *Climate Change Policy after Kyoto*, they attempt to steer the policy debate toward a realistic blueprint for effective policy.

The authors believe that managing uncertainty—particularly the future costs of any plan—is key to realistic climate policy. They maintain that sustainable policy should meet four basic criteria: it should slow down carbon dioxide emissions where it is cost-effective to do so; compensate those who are hurt economically; require a high degree of consensus both domestically and internationally; and allow countries to enter the program easily and continue to participate even if they drop out of the agreement at certain times.

The book summarizes the current state of knowledge about climate change and discusses the history of negotiations since 1992—in the process identifying the Kyoto Protocol as the wrong approach to the problem. It outlines important insights that economic theory offers for the design of climate policy, and uses those insights to develop a simple framework that will reduce greenhouse gas emissions while guaranteeing that short-run costs of compliance will not be excessive. The authors conclude by outlining a process by which international negotiations on climate control can proceed to an agreement that is both durable and feasible for all nations.

**Climate Change Policy: A Survey
by Stephen H. Schneider (Editor), Armin Rosencranz (Editor), John O. Niles (Editor)**

Publisher: Island Press
August 2002
Paperback: 368 pp
Language: English
ISBN-10: 1559638818



ISBN-13: 978-1559638814

Book description

Questions surrounding the issue of climate change are evolving from "Is it happening?" to "What can be done about it?" The primary obstacles to addressing it at this point are not scientific but political and economic; nonetheless a quick resolution is unlikely. Ignorance and confusion surrounding the issue—including a lack of understanding of climate science, its implications for the environment and society, and the range of policy options available—contributes to the political morass over dealing with climate change in which we find ourselves. *Climate Change Policy* addresses that situation by bringing together a wide range of new writings from leading experts that examine the many dimensions of the topics most important in understanding climate change and policies to combat it. Chapters consider:

- climate science in historical perspective
- analysis of uncertainties in climate science and policy
- the economics of climate policy
- North-South and intergenerational equity issues
- the role of business and industry in climate solutions
- policy mechanisms including joint implementation, emissions trading, and the so-called clean development mechanism

Regardless of the fate of the Kyoto Protocol, the issues raised in that debate will persist as new climate protection regimes emerge; this volume treats most of those topics. Tying the chapters together is a shared conclusion that climate change is a real and serious problem, and that we as a society have an obligation not merely to adapt to it but to mitigate it in whatever intelligent ways we can develop. Cost-effectiveness is not disdained, but neither is the imperative for valuing species threatened by rapid climate change.

Climate Change: What It Means for Us, Our Children, and Our Grandchildren (American and Comparative Environmental Policy)

by Joseph F. C. DiMento (Editor), Pamela M. Doughman (Editor)

Publisher: The MIT Press

September 2007

Paperback: 232 pp

Language: English

ISBN-10: 0262541939

ISBN-13: 978-0262541930

Book description

This book gives a great overview of the science and politics of climate change, from the causes and effects of climate change, to what we know and do not know about the science and how that knowledge has become politicized, to the many political efforts at all levels of governance to address the issue. *Climate Change* is written by acknowledged experts and yet reads with one voice; written in a way that will be accessible to novices and also appreciated by scholars.



**Climate for Change: Non-State Actors and the Global Politics of the Greenhouse
(International Hydrology)
by Peter Newell (Author)**

Publisher: Cambridge University Press
September 2000
Hardcover: 240 pp
Language: English
ISBN-10: 0521632501
ISBN-13: 978-0521632508

Book description

This volume provides a challenging explanation of the forces that have shaped the international global warming debate. It takes a novel approach to the subject by concentrating on the ways non-state actors--such as scientific, environmental and industry groups, as opposed to governmental organizations--affect political outcomes in global fora on climate change. It also provides insights into the role of the media in influencing the agenda. The book draws on a range of analytical approaches to assess and explain the influence of these nongovernmental organizations on the course of global climate politics. The book will be of interest to all researchers and policy makers associated with climate change, and will be used in university courses in international relations, politics, and environmental studies.

**Climate Policy in a Globalizing World: A Cge Model with Capital Mobility and Trade
by Katrin Springer**

Publisher: Springer-Verlag
January 2003
325 pp
ISBN-13: 9783540443759
Series: Kieler Studien Ser.

Book description

This book examines the allocational and distributional impacts of international climate policy on different regions of the world by taking into account the ongoing process of globalization. It concentrates on the impacts of trade in goods and international capital mobility on climate policy outcomes. The costs of an international climate policy are assessed by incorporating the Kyoto Protocol into a multi-regional, multi-sectoral, recursive dynamic trade model based on empirical data. Climate policy leads to a change in relative competitiveness between sectors and regions, thus inducing output shifts, international capital flows, welfare changes and carbon leakage. Welfare costs can be reduced by a higher integration into the world market and a diversification of the export structure.



**Flexibility in Global Climate Policy: Beyond joint implementation
by Tim Jackson, Katie Begg and Stuart Parkinson (editors)**

August 2000
Hardback
ISBN: 1853837059
ISBN: 9781853837050

Book description

Since the adoption of the Kyoto Protocol to the United Nations Framework Convention on Climate Change in 1997, the negotiation of policy responses to climate change has become an area of major research. This authoritative volume sets out the main debates and processes of "joint implementation" - bilateral or multilateral investments in greenhouse gas emission reduction or sequestration - and explores the issues involved in constructing an appropriate institutional framework. It examines the key economic, environmental, social and ethical impacts, and assesses the operational design of the flexibility mechanisms of joint implementation, including "emissions trading" and the Clean Development Mechanism. An approach is developed in which streamlined assessment procedures are combined with institutional safeguards in order to balance the demand for practical mechanisms with the environmental objectives of the Protocol. The book provides detailed case studies of energy sector investment in Eastern European host countries.

**From Kyoto to the Town Hall: Making international and national climate policy work at the local level
by Lennart J. Lundqvist and Anders Biel (editors)**

March 2007
Hardback: 240 pp
ISBN: 1844074234
ISBN: 9781844074235

Books description

International agreements such as the Kyoto Protocol, EU regulation and country-specific national climate policies offer some hope of addressing climate change. But all too often implementation of these high level objectives is derailed at the sub-national, local and indeed, perhaps most importantly at the individual level, by a variety of structural, policy and perceived barriers that result in a failure of effective action.

Drawing on original research from Sweden, a world leader in effective environmental solutions, this volume examines the difficulties of aligning climate policy from international to national to sub-national levels. The authors address the full swathe of barriers and complexities including governance structures, the relationship between 'experts' and the public, political feasibility including tax measures, perceptions of 'fairness' and self-interest and the importance of environmental values. Also covered are the roles and perceptions of organizations and professions, the place of carbon-free technologies such as wind power, the relationship between national and EU regulations, and the monumental challenge of governing the climate in a bordered and divided world.



**Global Environmental Negotiations and US Interests
by Deborah S. Davenport (Author)**

Publisher: Palgrave Macmillan
October 2006
Hardcover: 288 pp
Language: English
ISBN-10: 1403970211
ISBN-13: 978-1403970213

Book description

This book examines the question of why effective action has been taken to ameliorate some global environmental problems while no improvement has been made on others. In an asymmetric international system, success depends upon whether the lead state is willing to manipulate the preferences of other states. This book provides a comprehensive typology of the potential costs and benefits of effective agreement for the system leader and clarifies the leader's true interests on particular environmental issues.

Integrating Climate Change Actions into Local Development Edited by Livia Bizikova, John Robinson and Stewart Cohen

2008
Hardback: 160 pp
ISBN: 9781844075522

Book description

The current gap between scientific knowledge and practitioners' needs in addressing climate adaptation and mitigation is due to one-dimensional assessments of climate change impacts that create narrowly focused-policies. These policies provide insufficient guidance for long-term development addressing diversity of local circumstances.

This special issue of Climate Policy will address a new area of current climate change research focused on linkages between climate change and sustainable development at the level of conceptual framework and methods. In particular, the papers address in an integrated way local development options involving both adaptation and mitigation in order to promote resilience to the climate change on human and natural systems. The special issue will provide policy and methodological guidelines for linking local development pathways with responses to climate change based on the collaboration between local practitioners, public and scientists, in order to translate scientific information relevant for the users, and conduct research that reflects local realities.

**International Climate Policy to Combat Global Warming: An Analysis of the Ancillary Benefits of Reducing Carbon Emissions
by Rubbelke Dirk T. G., Dirk REBbelke**

Publisher: Edward Elgar Publishing, Incorporated
September 2002
200pp
ISBN-13: 9781840649970



Series: New Horizons in Environmental Economics

Book description

By proposing a novel framework for the analysis of, and solution to, the problem of global warming, this book will be welcomed by environmental and ecological economists, policymakers and researchers of political science.

Kyoto: From Principles to Practice (International Environmental Law and Policy Series, V. 60)

by Peter Cameron (Editor)

Publisher: Kluwer Law International

November 2001

Hardcover: 400 pp

Language: English

ISBN-10: 9041116893

ISBN-13: 978-9041116895

Book description

'The present volume represents a major contribution to the growing literature on international and comparative climate change policy. The product of a research project of the International Bar Association Section on Energy and Natural Resources Law (SERL), it brings together leading academic lawyers from around the world, who provide detailed perspectives on what individual countries are doing (or, in some cases, not doing) to address the climate change problem. The book illustrates the range of national actions to reduce greenhouse gas emissions, including incentives for renewable energy sources, forestry activities, voluntary agreements with industry, and emissions trading schemes. By including experts from both industrialized and developing countries, it also highlights the very differing perspectives that must be addressed in any international climate change regime, whether under Kyoto or a successor. These detailed case studies provide a rich array of material, which should be of significant interest not only to academic and business lawyers, but also to economists and energy experts, government officials, and NGOs.' From the Preface by the series editors.

Law and Economics in International Climate Change Policy

by R. Schwarze (Author), John O. Niles (Contributor), Eric Levy (Contributor)

Publisher: Springer

June 2001

Hardcover: 152 pp

Language: English

ISBN-10: 0792368002

ISBN-13: 978-0792368007

Book description

The Kyoto Protocol is a landmark international agreement to tackle the problem of global climate change. Most operational details of the Protocol, however, were not decided in Kyoto but deferred to following conferences. This deferral of the details, while probably appropriate to initially reach the agreement, has become a major stepping stone for the



ratification of the Kyoto Protocol.

This study elaborates in six essays on some of the most pressing policy problems of the Kyoto Protocol. These are the problems of 'hot air', the accounting of biological sources and sinks, and the modalities of the Clean Development Mechanism (CDM). A specific focus of this book is on how the issues of climate change and global sustainable forestry can be linked. The authors develop some new innovative solutions to achieve durability and political acceptability for CDM forest conservation projects, such as escrow account financing and bundling of forest conservation and bioenergy. The sum of fresh insights into up-to-date legal and political problems of the Kyoto Protocol makes this book indispensable for policy makers, negotiators, environmental activists, academics, and anyone involved in post-Kyoto strategies.

Reconstructing Climate Policy: Beyond Kyoto
by **Richard B. Stewart (Author)**

Publisher: AEI Press
April 2003
Paperback: 193 pp
Language: English
ISBN-10: 0844741868
ISBN-13: 978-0844741864

Book description

New York Univ., NY. Text offer an analysis of the Kyoto Protocol and climate policy. Examines the current impasse in climate policy and the potential steps nations can take to reduce greenhouse gases. Explains why participation by all major greenhouse gas-emitting countries is essential.

The Collapse of the Kyoto Protocol and the Struggle to Slow Global Warming
(Council on Foreign Relations Book)
by **David G. Victor (Author)**

Publisher: Princeton University Press
April 2001
Hardcover: 160 pp
Language: English
ISBN-10: 0691088705
ISBN-13: 978-0691088709

Book description

In the winter of 2000, international talks on the implementation of planned emissions standards again faltered, a resolution again postponed. In *The Collapse of the Kyoto Protocol and the Struggle to Slow Global Warming*, scientist David G. Victor of the Council on Foreign Relations parses the problem-ridden 1997 agreement. Victor describes the hasty initial negotiations, the origin of an emissions trading imbroglio whereby governments would purchase emissions credits from other countries rather than meeting "their Kyoto obligations within their borders," the impossible costs of "Kyoto's fantasyland" and the protocol's inevitable failure. But in the failure lies the possibility for a manageable solution, Victor notes. Publication coincides with Earth Day.



**Precious Air: The Kyoto Protocol and Profit in the Global Warming Game
by Alan Reed (Author)**

Publisher: Leathers Publishing
October 2006
Language: English
ISBN-10: 1585974005
ISBN-13: 978-1585974009

Product Description

IPPY National Gold Award Winner, Book of the Year by Independent Publisher. US Senator Pete Domenici writes: "Professor Reed has superbly assessed the complicated mechanisms of the Kyoto Treaty, dealing with global warming, whether you are an investor in 'carbon trading' or an interested citizen, you will learn how the Kyoto Treaty can shape international economics and individual responses to this important issue of our time." Precious Air is the definitive study of global warming's affect on global economics, public policy, and commodities finance. Here is the story of the UN struggles that produced the Kyoto Protocol and the new emissions trading industry. "Precious Air" will prepare you to discuss the international community's response to the emerging scientific initiatives to control global warming induced by greenhouse gases. If you want to know what the quiet revolution brought by the Kyoto Protocol has done to the world economy, or to evaluate the possibility of slowing global warming through capping emissions from 12,000 enterprises in the Annex 1 countries, or to know how the UN works, this study by an active participant in the United Nations in the critical years immediately following the Kyoto conference is a must.



TECHNOLOGY AND ENERGY RESOURCES

Apollo's Fire: Igniting America's Clean Energy Economy by Jay Inslee (Author), Bracken Hendricks (Author)

Publisher: Island Press
 October 2007
 Hardcover: 416 pp
 Language: English
 ISBN-10: 1597261750
 ISBN-13: 978-1597261753

Book description

To free the U.S. of fossil fuel dependency while boosting the economy, we need the kind of visionary leadership that led to the Apollo moon landings in 1969, according to Inslee and Hendricks in this energetic articulation of a clean-energy future. That vision is sadly lacking under the current administration, reports Washington State Congressman Inslee in several caustic sidebars about his contentious energy discussions with President Bush and Vice-President Cheney. His first-person anecdotes lighten this otherwise earnest book, based on initiatives of the Apollo Alliance, an advocacy group and think tank uniting unions, environmental groups and business organizations committed to fostering a green economy. Redesigning the car, investing in solar power, mining wind for power, exploring the nascent technology of wave energy, using energy more efficiently and working clean coal and safe nuclear power into the equation are among the authors' prescriptions. Inslee is primary congressional sponsor of the New Apollo Energy Act and on the Apollo Alliance advisory board; coauthor Hendricks is a member of the alliance's steering committee. A brief foreword by Bill Clinton waxes enthusiastic about the synergy between the book, the alliance and the proposed legislation.

Climate Change and Power: Economic Instruments for European Electricity Energy & Environmental Programme Edited. by Christiaan Vrolijk

August 2002
 Hardback: 220 pp
 ISBN 1853838217 / 9781853838217
 ISBN 1853838225 / 9781853838224

Book description

The electricity industry is one of the main contributors of carbon to the atmosphere. Reducing these emissions is critical to achieving international targets and mitigating climate change. Economic instruments, including emissions trading, taxes and voluntary agreements will be crucial, but across Europe there are widely different electricity systems, and policies will have different effects. This book describes the characteristics of the main European electricity regimes, defines the range of instruments available and assesses the potential of each in each regime and for Europe as a whole.

Technology Transfer for the Ozone Layer: Lessons for Climate Change



by **Stephen O. Andersen (Author), K. Madhava Sarma (Author), Kristen Taddonio (Author)**

Publisher: Earthscan Publications Ltd.
 September 2007
 Hardcover: 446 pp
 Language: English
 ISBN-10: 1844074730
 ISBN-13: 978-1844074730

Book description

Technology transfer the development of practical applications and commercialization of research for positive environmental outcomes is the crux of many of the 230 international environmental treaties, and is widely viewed as essential to the Kyoto Protocol and success in the global fight against climate change. Internationally there is considerable debate on the obstacles to transfer of, and change to, environmentally sound technologies particularly for the developing countries yet no comprehensive assessment of what works.

To date, one of the most successful environmental treaties and the source of the greatest achievement in technology transfer for international environmental protection is the Vienna Convention on the Protection of the Ozone Layer (1985) and its Montreal Protocol on Substances that Deplete the Ozone Layer (1987), brokered by the United Nations Environment Programme. The experience regarding the ozone-friendly technologies under the Montreal Protocol is now 15 years old and this landmark book provides a comprehensive analysis of the vast experience of technology transfer of the Montreal Protocol and draw out key lessons for the climate change and other global environmental challenges.

In the case of the Montreal Protocol, the industries that used ozone-depleting substances were very diverse and from many sectors including air conditioning, refrigeration, fire fighting, solvents, agriculture, aerosols and foams as well as thousands of other small applications. There were many large enterprises that had the resources to innovate new ozone-friendly technologies and many small enterprises that needed to be educated on such technologies and how to access them. The authors examine how governments of industrialized countries innovated and implemented many policies, regulations, awareness and education campaigns and financial incentives and disincentives to achieve success.

They also look at the results of 1000 technology transfer investment projects funded under the Montreal Protocol's Multi-lateral Fund and present the lessons, including insider accounts from a variety of sectors, to demonstrate how and under what circumstances technology transfer works for successful environmental outcomes. In addition to covering all aspects of technology transfer, the authors identify generic principles and lessons be identified and applied to the Kyoto Protocol and its post-2012 successor and numerous other critical environmental contexts including marine and air pollution, hazardous waste, biodiversity and desertification among others.

This book provides the only thorough assessment of successful technology transfer of



the nature and scale required for combating climate change and other global environmental challenges and is essential reading for all professionals and researchers in government, business, NGOs and academia working on any aspect of technology transfer, ozone layer protection, climate change and environmental protection world-wide.

**The Hydrogen Energy Transition: Cutting Carbon from Transportation
by Daniel Sperling (Author), James S. Cannon (Author)**

Publisher: Academic Press
June 2004
Hardcover: 266 pp
Language: English
ISBN-10: 0126568812
ISBN-13: 978-0126568813

Book description

The Hydrogen Energy Transition addresses the key issues and actions that need to be taken to achieve a changeover to hydrogen power as it relates to vehicles and transportation, and explores whether such a transition is likely, or even possible. Government agencies and leaders in industry recognize the need to utilize hydrogen as an energy source in order to provide cleaner, more efficient, and more reliable energy for the worlds economies. This book analyzes this need and presents the most up-to-date government, industry, and academic information analyzing the use of hydrogen energy as an alternative fuel.

With contributions from policy makers and researchers in the government, corporate, academic and public interest sectors, The Hydrogen Energy Transition brings together the viewpoints of professionals involved in all aspects of the hydrogen-concerned community. The text addresses key questions regarding the feasibility of transition to hydrogen fuel as a means of satisfying the worlds rapidly growing energy needs. The initiatives set forth in this text will mold the research, development and education efforts for hydrogen that will assist in the rapidly growing transportation needs for automobiles and other vehicles.

**Out of the Energy Labyrinth: Uniting Energy and the Environment to Avert
Catastrophe
by David Howell (Author), Carole Nakhle (Author)**

Publisher: I. B. Tauris
July 2007
Paperback: 224 pp
Language: English
ISBN-10: 1845115384
ISBN-13: 978-1845115388

Book description

In their provocative and original book, the authors argue that energy can become a tool for environmental protection that energy and environment are not by definition in conflict



with each other and that by pooling energy production and environmental protection ideas energy can be part of a solution rather than the problem. This book is firmly grounded in reality (given the demands of China, India and other developing economies) and makes specific proposals: a radical rethinking on energy investment strategies; massive incentives to develop alternative fuel technologies; a ground-breaking public awareness strategy to redirect consumers and policy-makers to embrace fundamental (though essentially painless) change in consumption patterns. The solutions that Howell and Nakhle offer are unapologetically offer short term. This is because they view the problems of climate security as short term. But their solutions have long term consequences. Their important and novel approach makes this book essential reading for an understanding of today's bewildering environmental debates.

Energy... beyond oil

by Katherine Blundell, Katherine M. Blundell, Fraser Armstrong (Editor)

Publisher: Oxford University Press

November 2007

240 pp

ISBN-13: 9780199209965

Book description

As the Earth's oil supply runs out, and the effects of climate change threaten nations and their populations, the search for carbon-neutral sources of energy becomes more important and increasingly urgent. This book focuses on solutions to the energy problem, and not just the problem itself.

It describes the major energy-generation technologies currently under development, and provides an authoritative summary of the current status of each one. It stresses the need for a balanced portfolio of alternative energy technologies. Certain solutions will be more appropriate than others in particular locations, due to the differences in availability of natural resources such as solar, wind, wave, tidal and geothermal. In addition, nuclear options (both fission and fusion), as well as technologies such as fuel cells, photovoltaics, artificial photosynthesis and hydrogen (as an energy carrier), all have a potential role to play. A state-of-the-art critique of energy efficiency in building design is also included. Each chapter is written by an acknowledged international expert and provides a non-technical overview of the competing and complementary approaches to energy generation.

Broad in scope and comprehensive in treatment, Energy..beyond Oil provides an authoritative synthesis of the scientific and technological issues which are essential to the survival of the human race in the near future. The book will be of interest and use to graduate students and researchers in all areas of energy studies, and will also be highly useful for policy-makers and professionals in the environmental sector as well as a more general readership who wish to learn more about this extremely topical subject.



CARBON MARKETS

Carbon Trading - A Critical Conversation on Climate Change, Privatisation and Power

by Larry Lohmann (Author), Niclas Hällström (Editor), Olle Nordberg (Editor), Robert Åsterbergh (Editor)

Publisher: Dag Hammarskjöld Foundation
 September 2006
 Paperback: 362 pp
 Language: English
 ISBN-10: 9185214485
 ISBN-13: 978-9185214488

Book description

The main cause of global warming is rapidly increasing carbon dioxide emissions primarily the result of burning fossil fuels despite international agreements to reduce such emissions. The trouble is that despite being aware of the serious situation, very few decision-makers are ready to tackle the problem at its roots. Instead of reducing the extraction of fossil fuels and searching for other solutions, current carbon-trading policies, in practice, favour the further exploitation of these fuels. Furthermore, new tree plantations, which are claimed as a means of mitigating the consequences of increased carbon dioxide pollution, often drive people out of their traditional living grounds and destroy biological diversity. This special report forms part of the Dag Hammarskjöld Foundation's What Next project. It focuses on carbon trading and is intended to influence current climate politics. In the debate on the Kyoto Protocol few actors have expressed a critical view. It is high time, for the purposes of debate and policy-making, to put the spotlight on the core problem fossil fuel extraction and consumption. This publication, therefore, takes a broad look at several dimensions of carbon trading. It analyses the problems arising from the emerging global carbon market pertaining to the environment, social justice and human rights, and investigates climate mitigation alternatives. It provides a short history of carbon trading and discusses a number of lessons unlearned. Nine case studies from different parts of the world provide examples of the outcomes on the ground of various carbon off set schemes.

Carbon Trading & Pricing

by Joost Kanen (Author), Graham Cooper (Editor)

Publisher: Environmental Finance Publications
 December 2006
 Paperback: 120 pp
 Language: English
 ISBN-10: 0955372011
 ISBN-13: 978-0955372018

Book description

Carbon Trading & Pricing is an essential guide to the factors influencing the price of emission allowances in the EU Emissions Trading Scheme. Key topics include: - Motivation of carbon buyers & sellers - Industry vs financial participants in the carbon market - Relationship between carbon price and coal, gas, oil and power markets - Major



supply and demand factors - Market inefficiencies - Taxation and legal issues - Interaction between EU allowances, CDM and JI credits - Potential impact of Japanese, US and other carbon markets An indispensable reference tool for industry participants in the EU Emissions Trading Scheme, power generators, emissions/commodity traders, brokers, carbon investment vehicles, hedge funds, consultants, lawyers, policy makers.

Climate Change and Carbon Markets: A Handbook of Emissions Reduction Mechanisms

by Farhana Yamin (Editor), Farhana Yamin

Publisher: Earthscan/James & James
February 2005
288pp
ISBN-13: 9781844071630

Book description

In the 1997 Kyoto Protocol, three emissions trade mechanisms--joint implementation, the Clean Development Mechanism, and international emission trading--were agreed to and have begun to be implemented. Yamin (Institute of Development Studies, U. of Sussex, UK) presents eight chapters that examine the rules, institutions, and procedures of these mechanisms and examine their evolution and implementation around the world.

Climate Trading: Development of Greenhouse Gas Markets

by Debbie Stowell

Publisher: Palgrave Macmillan
March 2005
240 pp
ISBN-13: 9781403916167
Series: Finance and Capital Markets Series

Book description

Climate Trading covers issues related to greenhouse gas emissions trading markets, including the events that lead up to the adoption of the Kyoto protocol, the development of the market-based mechanisms under the Protocol, and the emerging domestic and international emissions trading and carbon credits markets. The book provides a comprehensive and detailed overview of the complex and evolving issues surrounding these markets. As governments begin the process of implementation of domestic regulation in order to meet international requirements, it will be crucial for capital markets practitioners to understand the implications and options associated with emissions trading.

Cutting auto emissions through city carbon trading.(25 ideas): An article from: The Review of Policy Research

by Adam Millard-Ball (Author)

Publisher: Thomson Gale
September 2007
HTML: 5 pp
Publication: The Review of Policy Research (Magazine/Journal) Volume: 24 Issue: 494(2)



Book description

This digital document is an article from The Review of Policy Research, published by Thomson Gale on September 1, 2007. The length of the article is 657 words. The page length shown above is based on a typical 300-word page. The article is delivered in HTML format and is available in your Amazon.com Digital Locker immediately after purchase. You can view it with any web browser.

Emissions Trading and Business

by **Ralf Antes (Editor), Bernd Hansjürgens (Editor), Peter Letmathe (Editor)**

Publisher: Physica-Verlag Heidelberg

October 2006

Hardcover: 400 pp

Language: English

ISBN-10: 3790817473

ISBN-13: 978-3790817478

Book description

Emissions trading challenges the management of companies in an entirely new manner. It does not only allow for a bigger flexibility in management decisions concerning emission issues like other marked based environmental policy instruments. Furthermore it changes the code by which environmental policy steers management decisions from hierarchical to monetary information. But is this change transmitted and mirrored in management decisions, processes and structures? And, how do they change? When flexibility is given to the companies they have several opportunities to react. Moreover different institutional architectures of emissions trading schemes are possible and have been implemented, like in the US, the UK or the EU. The 24 contributions discuss theoretically and empirically in four parts the following subjects: 1. Institutional design, decision making and innovation, 2. Investment and management strategies, 3. ET and business administration, 4. Effects of ET schemes existing and being implemented.

Emissions trading and competitiveness: allocations, incentives and industrial competitiveness under the EU emissions trading scheme

by **Michael Grubb and Karsten Neuhoff**

Publisher: Earthscan

2006

Hardcover: 160 pp

Language: English

ISBN: 1-84407-403-X

ISSN: 1469-3062

Call No: Atm-CI-(4)8 (UN Library Nairobi)

Main descriptors

Climate change; tradable emission entitlements; emission inventories; pollution control technology; pollution sources; carbon dioxide; carbon sequestration



Emissions Trading for Climate Policy: US and European Perspectives
by Bernd Hansjürgens (Editor)

Publisher: Cambridge University Press
 September 2005
 Hardcover: 260 pp
 Language: English
 ISBN-10: 0521848725
 ISBN-13: 978-0521848725

Book description

The 1997 Kyoto Conference introduced emissions trading as a new policy instrument for climate protection. This book's contributions from the fields of economics, political science and law analyze theoretical aspects of regulatory instruments for climate policy, provide an overview of U.S. experience with market-based instruments, draw lessons from existing trading schemes for the control of greenhouse gases, and discuss options for emissions trading in climate policy. They also highlight the background of climate policy and instrument choice in the U.S and Europe.

Emissions Trading: Environmental Policy's New Approach
by Richard F. Kosobud (Editor), Holly M. Biggs, Douglas L. Schreder

Publisher: Wiley, John & Sons, Incorporated
 January 2000
 348pp
 ISBN-13: 9780471355045
 Series: National Association of Manufacturers Series

Book description

Authoritative, comprehensive, accessible-the definitive guide to a new approach in environmental policy Emissions Trading: Environmental Policy's New Approach presents the work of an outstanding group of contributors on the successes and limitations of this new and exciting incentive-based tool for reducing environmental pollutants. By including the comments of emitters, regulators, public interest group representatives, and academics, the book reveals the criticisms, disagreements, and growing resolution of numerous environmental questions, including:

- * Can markets be used to correct market environmental failure?
- * Will decentralized decisions by emitters produce an improvement in air quality?
- * Can this approach realize significant control cost savings?
- * Can emissions trading be monitored and enforced effectively at a reduced cost?
- * Will affected groups support this dramatic innovation?

Supported with sound analytical thinking and careful consideration of the evidence, Emissions Trading presents an open and candid discussion of the issues and choices that lie ahead. As emissions trading is extended to air pollutants such as nitrogen oxides and carbon dioxide, the data and information contained in this book will become even more important and compelling for anyone interested in matters destined to have a profound impact on the economy, the environment, and public health.



**Emissions Trading: Principles and Practice (RFF Press)
by T. H. Tietenberg (Author)**

Publisher: RFF Press; second edition
March 2006
Paperback: 230 pp
Language: English
ISBN-10: 1933115319
ISBN-13: 978-1933115313

Book description

First published in 1985, Emissions Trading was a comprehensive review of the first large-scale attempt to use economic incentives in environmental policy in the United States; since its publication it has consistently been one of the most widely cited works in the tradable permits literature. The second edition of this classic study of pollution reform considers how the use of transferable permits to control pollution has evolved over the last twenty-five years.

Initially little more than an academic curiosity, the use of tradable permits eventually became the centerpiece of both the U.S. program to control acid rain and the European approach to controlling greenhouse gases. The second edition of Emissions Trading skillfully weaves together a vast amount of theoretical and empirical information, offering a thorough survey of what we have learned about this important environmental policy instrument after twenty-five years of theorizing, conducting empirical research, and evaluating the implementation experience.

Intended to appeal both to academics and practitioners, Emissions Trading outlines what has been learned to date about the appropriate niche for this instrument and identifies best practices for the design of effective programs.

**Energy & Emissions Markets: Collision or Convergence (Wiley Finance)
by Peter C. Fusaro (Author), Tom James (Author)**

Publisher: Wiley
February 2006
Hardcover: 350 pp
Language: English
ISBN-10: 0470821582
ISBN-13: 978-0470821589

Book description

Written by best selling author Peter C. Fusaro and renowned energy market expert and commentator Tom James, this book demonstrates that the forces of energy and environmental issues are linked more than ever before. The beginning of European emissions trading in 2005 and the implementation of the Kyoto protocol have accelerated efforts already underway in the US to use market forces to remediate environmental issues. Topics such as emissions trading, renewable energy trading, the fourth dimension in energy trading, and new outcomes on green project finance will be analyzed in this book.



EU Emissions Trading Scheme: a special issue of the climate policy journal
by Axel Michaelowa and Sonja Butzengeiger both at Hamburg Institute, Germany

July 2005

Paperback: 144 pp

ISBN: 184407238X

ISBN: 9781844072385

Book description

This special issue of Climate Policy outlines the fundamentals of the new European Emissions Trading Scheme (EU ETS), assesses the strategies for and impact of implementation and highlights the scheme's potential, including positive aspects and remaining hurdles.

The EU Emission Trading Scheme (EU ETS) is the first international trading scheme for CO₂ in the world. Its aim is to reduce the cost of compliance to existing targets under the Kyoto Protocol. From 1st January 2005, companies in high-energy sectors covered by the scheme must limit their CO₂ emissions to allocated levels, arranged in two periods: from 2005-2007 and 2008-2012 (to match the first Kyoto commitment period). In practice, the scheme is likely to cover over 10,000 installations across the European Union, corresponding to approximately 46% of the total EU CO₂ emissions.

Harnessing Farms and Forests in the Low-Carbon Economy: How to Create, Measure, and Verify Greenhouse Gas Offsets
by Zach Willey (Editor), W. L. Chameides

Publisher: Duke University Press

June 2007

229 pp

ISBN-13: 9780822341680

Book description

As the United States moves to a low-carbon economy in order to combat global warming, credits for reducing carbon dioxide emissions will increasingly become a commodity that is bought and sold on the open market. Farmers and other landowners can participate in this new economy by conducting land management practices that sequester or reduce greenhouse gas emissions, creating credits they can sell to industry to "offset" industrial emissions of greenhouse gases.

This guide is the first comprehensive technical manual providing direction to: landowners, farmers, and foresters, emissions traders, brokers, and investors, regulators. The first part of the guide explains, in nontechnical language, how to assess the costs and benefits of a proposed project, quantify offsets of various sorts under a range of situations and conditions, and verify and register the offsets. The second part provides specific, technical information related to offsets from agricultural and forestry practices.



National Allocation Plans in the EU Emissions Trading Scheme: Lessons and implications for phase II

Edited by Michael J. Grubb, Regina Annette Betz and Karsten M. Neuhoff

2007

Hardback: 160 pp

ISBN: 9781844074723 / 1844074722

Book description

This volume - a special issue of Climate Policy journal - examines issues surrounding the allocation of allowances in the EU emission trading scheme (ETS) and the implications for Phase II of this hugely important programme. Crucial issues are examined, including assessments of the allocation plans proposed by EU member states and the competitive distortions allocation can create for the power and heat sector. Research ranges from detailed country-by-country comparisons to more generic analysis putting forward the case for harmonization. Empirical papers, looking at the expected scarcity of allowances in the market, and merging models for the power and non-power sector to project emissions of the covered sector and contrast these to the aggregate allocation volume, are complemented with two numerical simulations of trade and distributional effects, estimating the efficiency gains of the EU ETS in Phase I and assessing allocation and distribution effects in the RGGI context. Finally, an editorial summarizes the findings of these papers and examines how they have informed policy-makers in the context of the larger debate.

Potential of U.S. Forest Soils to Sequester Carbon and Mitigate the Greenhouse Effect

by John M. M. Kimble, Rattan Lal (Editor), Richard A. Birdsey (Editor), Linda S. Heath (Editor)

Publisher: Lewis

September 2002

448 pp

ISBN-13: 9781566705837

Book description

In negotiations over the Kyoto protocol and in other climate control discussions, U.S. representatives argued that the United States should be able to use its relative abundance of forests as "carbon-sinks" in order to offset higher levels of carbon pollution. The editors (three of whom are with the U.S. Department of Agriculture) present 25 chapters that discuss some of the basic science used to support that argument in relation to forest soils that contain an estimated 40 to 60 percent of stored carbons. The central topics addressed include the extent, general dynamics, and carbon dynamics of U.S. forest soils; soil processes and carbon dynamics; management impacts on U.S. forest soils; specific forest ecosystems; and synthesis and policy implications. Annotation c. Book News, Inc., Portland



State and Trends of the Carbon Market 2004
by Franck Lecocq

Publisher: World Bank Publications
 April 2005
 44pp
 ISBN-13: 9780821361177
 Series: World Bank Working Paper Ser.

Book description

This study describes the status of the emerging carbon market, as of May 2004. The carbon market encompasses trades of greenhouse gas emission allowances (under the EU Emissions Trading Scheme), and project-based transactions whereby a buyer participates in the financing of a project that reduces GHG emissions compared with what would have happened otherwise, and gets emission reduction credits in exchange (for example, Clean Development Mechanism or Joint Implementation projects under the Kyoto Protocol)." This study finds that the carbon market is growing steadily. A total of 64 million metric tones of carbon dioxide equivalent (tCO₂e) has been exchanged through projects from January to May 2004, nearly as much as during the whole year 2003 (78 million). Secondly, the demand for emission reductions remains heavily concentrated, with a few EU Governments and Japanese firms the largest buyers. Third, Asia is now the largest supplier of emission reductions, followed by Latin America, developed economies, and Eastern Europe. Fourth, prices of project-based emission reductions in early 2004 have remained essentially stable compared with 2003. In the absence of a standard contract, these prices strongly depend on the structure of the transaction, notably risk-sharing between buyers and sellers.

Storing Carbon in Agriculture Soils: A Multi-Purpose Environmental Strategy
by Norman J. Rosenberg, R. Cesar Izaurralde (Editor), R. Cesar Izaurralde (Editor)

Publisher: Springer-Verlag
 September 2001
 124 pp
 ISBN-13: 9780792371496

Book description

Originally printed as a special issue of the journal Climatic change (vol. 51, no. 1, 2001), the four papers here address key topics related to carbon sequestration in cropland soils as a potential means of offsetting the growing accumulation of carbon dioxide in the atmosphere, potentially mitigating global warming. The contributors, US researchers in government and academia, cover topics including science needs and new technology; desertification; monitoring and verifying changes of organic carbon; and policy and economics. There is no subject index. Annotation c. Book News, Inc., Portland, OR (booknews.com)



The Sustainable Forest Products Industry, Carbon and Climate Change – Key Messages for Policy-Makers

Publisher: WBCSD
2007
paperback: 10 pp
ISBN: 978-3-940388-07-0

Book description

This publication calls for public policies that make the best use of the forestry sector's carbon profile and carbon cycle. It proposes six key points that those responsible for devising forestry and carbon policies need to know, and it highlights the carbon opportunities and challenges facing the sector.

**The voluntary carbon offsets market: An analysis of market characteristics and opportunities for sustainable development.
by IIED**

Publisher: IIED
2007
Paperback
ISBN: 9781843696766

Book description

Originating in negotiations for the United Nations Kyoto Protocol, a global carbon market has recently evolved. A number of distinct markets are encompassed within its remit, including a voluntary retail arm. Although the voluntary retail market is very small in comparison to other segments, it has large growth potential as it can extend to countries, customer groups and technologies not embraced by the existing compliance regime. This paper examines the structure and dynamics of the voluntary retail carbon market and in light of these findings considers the future developments and implications of this market for sustainable development.

**Trade and Environment: Theory and Policy in the Context of EU Enlargement and Economic Transition
by John W. Maxwell (Editor), Rafael Reuveny (Editor)**

Publisher: Edward Elgar Publishing, Incorporated
September 2005
368 pp
ISBN-13: 9781845421649
Series: Fondazione Eni Enrico Mattei (Feem) Seri

Book description

This collection of 13 essays, drawn from two workshops held in 2002 on trade, the environment and carbon flows in Europe, include three on theoretical issues (the subsidiary principle, EU enlargement, and competitiveness), four specifically on issues relates to the expansion of the EU into eastern and central Europe, and three on economic and environmental policies in transitional economies, such as that of Russia.



Voluntary Carbon Markets: An International Business Guide to What They Are and How They Work (Environmental Markets Insight Series)
by Ricardo Bayon (Author), Amanda Hawn (Author), Katherine Hamilton (Author), Al Gore (Foreword)

Publisher: Earthscan Publications Ltd.

March 2007

Hardcover: 184 pp

Language: English

ISBN-10: 184407417X

ISBN-13: 978-1844074174

Book description

By the end of 2006 the world carbon market will top \$30 billion in transactions and the first carbon billionaire may well have emerged. HSBC, Volvo, Avis, Ricoh, and American Express are but a few of the thousands of companies now offsetting their CO₂ emissions and becoming "carbon neutral", fuelling a massive international voluntary carbon market that is growing exponentially

This is the only business guide to this "next big thing", with complete coverage of what voluntary carbon markets are, where they are, how they work and how to capitalize--as a buyer or a seller--on a market that has the potential to mirror oil and gas in scale and to slow climate change

This groundbreaking business book, written in a fast-paced journalistic style, draws together all of the key information on international voluntary carbon markets with commentary from leading practitioners and business people. While maturing quickly, the voluntary market is complex, fragmented, and multi-layered, but it is beginning to consolidate around a few guiding practices and business models from which conclusions can be drawn about market direction and opportunities.

The book covers all aspects of voluntary carbon markets in the US, Europe, Australia, Canada, and Asia: what they are, how they work and, most critically, their business potential to help slow climate change. It is the indispensable guide for anyone seeking to understand voluntary carbon markets and capitalize on the opportunities they present for economic and environmental benefit. If you want to be ahead of the curve for the next big thing, you need this book.



CLIMATE NEUTRALITY**Capturing Carbon and Conserving Biodiversity: The Market Approach.
by Ian Swingland (Editor)**

Publisher: Earthscan Publications Ltd.
June 2003
Hardcover: 250 pp
Language: English
ISBN-10: 1853839507
ISBN-13: 978-1853839504

Book description

For decades conservation has been based on the donor-driven principle. It hasn't worked. For centuries, environmental pollution or degradation has been addressed by the same attitude, the "Polluter Pays" principle. It hasn't worked.

The cycle has to stop. But while everyone talks about using a market-driven approach, few know how to do it. Faced with the situation on the ground what do you do? What is happening? How can you engage a system so that it is self-sustaining and the people self-motivated?

This book is written by the leading conservation biologists, ecologists, biologists, economists, lawyers, community and tribal specialists, financial specialists, market makers, environment specialists, climatologists, resource managers, atmospheric scientists, project developers and corporate fund managers.

**Carbon Capture And Its Storage: An Integrated Assessment (Ashgate Studies in Environmental Policy ... in Environmental Policy and Practice
by Simon Shackley (Editor), Clair Gough (Editor)**

Publisher: Ashgate Publishing
December 2006
Hardcover: 313 pp
Language: English
ISBN-10: 0754644995
ISBN-13: 978-0754644996

Book description

It is now widely recognised that large scale reductions in carbon dioxide (CO₂) emissions are required during this century in order to limit the extent of climate change modification



**Carbon Dioxide Capture and Storage: Special Report of the Intergovernmental Panel on Climate Change
by IPCC (Author)**

Publisher: Cambridge University Press
December 2005
Hardcover: 442 pp
Language: English
ISBN-10: 052186643X
ISBN-13: 978-0521866439

Book description

This IPCC Special Report describes sources, capture, transport, and storage of CO₂. It discusses the costs, economic potential, and societal issues of the technology, including public perception and regulatory aspects. Storage options evaluated include geological storage, ocean storage, and mineral carbonation. The report places CO₂ capture and storage in the context of other climate change mitigation options. The volume includes a Summary for Policymakers approved by governments represented in the IPCC, and a Technical Summary. It provides invaluable information for researchers in environmental science, geology, engineering and the oil and gas sector, policy-makers in governments and environmental organizations, and scientists and engineers in industry.

**Carbon sequestration and trace gas emissions in slash-and-burn and alternative land-uses in the humid tropics: ASB Climate Change Working Group, Final Report, Phase II
by Palm, Cheryl [Ed.]**

Publisher: ICRAF
2000
Paperback: 35 pp
Language: English
Call No: Ter-Ar-248 (UN Library Nairobi)

Main descriptors

carbon sequestration; gas fuels; land use; humid tropics; climate change; greenhouse gases; global warming

**Climate Change and Terrestrial Carbon Sequestration in Central Asia
by B a Stewart (Editor), Rattan Lai (Editor), M Suleimenov (Editor)**

Publisher: CRC
2007
Hard cover
ISBN-13: 9780415422352
ISBN: 0415422353

Book description

About this title: Bringing together current knowledge of terrestrial C sequestration in Central Asia, this book covers biophysical environments, water resources, sustainable



agriculture, soil degradation, the effects of irrigation schemes on secondary salinization, soil management and its relationship to carbon dynamics; the relationship between forest management and carbon dynamics, economic analyses of land use practices, issues in using GIS, remote sensing, and carbon budgeting and scaling. It will be of interest to a wide variety of environmental scientists, economists and those interested in policy issues for the sustainable management of natural resources.

Costa Rica's commitment: on the path to becoming carbon-neutral.: An article from: UN Chronicle
by Roberto Dobles Mora (Author)

Publisher: Thomson Gale

June 2007

UN Chronicle (Magazine/Journal) Volume: 44 Issue: 2 Page: 42(3)

Book description

This digital document is an article from UN Chronicle, published by Thomson Gale on June 1, 2007. The length of the article is 1514 words. The page length shown above is based on a typical 300-word page. The article is delivered in HTML format and is available in your Amazon.com Digital Locker immediately after purchase. You can view it with any web browser.

Driving Climate Change: Cutting Carbon from Transportation
by Daniel Sperling (Editor), James S Cannon (Editor)

Publisher: Academic Press

2006

Hard cover

ISBN-13: 9780123694959

ISBN: 0123694957

Book description

Climate change is one of the greatest challenges facing global society. The debate over what to do is confounded by the uncertain relationship between increasing greenhouse gas emissions and climate change, and the impact of those changes on nature and human civilization.

This book will provide professionals and students alike with the latest information regarding greenhouse emissions while presenting the most up-to-date techniques for reducing these emissions. It will investigate three broad strategies for reducing greenhouse gas emissions: 1) reducing motorized travel, 2) shifting to less energy intensive modes, and 3) changing fuel and propulsion technologies. Findings will be presented by the leaders in the field with contributions from professors, researchers, consultants and engineers at the most prominent institutions - commercial, academic and federal - dealing with environmental research and policy.

* Includes a comprehensive evaluation of current industrial practice

* Provides technologically sound and manageable techniques for engineers, scientists and designers

* Incorporates guidelines for a sustainable future.



**Fire, Climate Change, and Carbon Cycling in the Boreal Forest
by Eric S Kasischke**

Publisher: Springer Verlag, Secaucus
2000
Hard Cover
ISBN-13: 9780387988900
ISBN: 0387988904

Book description

In boreal forests, which contain large amounts of the world's terrestrial organic carbon, fire is a natural and fundamental disturbance regime essential in controlling many ecosystem processes. As a result of predicted climate change in the future, the fire regime and, consequently, the forest cover and carbon storage of boreal regions will undergo dramatic alterations. This volume discusses the direct and indirect mechanisms by which fire and climate interact to influence carbon cycling in North American boreal forests. The first section summarizes the information needed to understand and manage fire's effects on the ecology of boreal forests and its influence on global climate change issues. Following chapters discuss in detail the role of fire in the ecology of boreal forests. Subsequent sections present data sets on fire and the distribution of carbon, discuss the use of satellite imagery in monitoring these regions and discuss approaches to modeling the relevant processes. The book offers the following new results: improved estimates of carbon released during fires at a variety of scales, from individual sites to the entire North American boreal forest region; direct evidence of enhanced soil respiration after fire in Alaskan boreal forests; studies of the influence of fire on long-term forest-succession patterns; modeling results of the effects of climate warming on the fire regime; examples of the use of satellite imagery to monitor surface characteristics important in carbon cycling; modeling results of how climate change will interact with the fire regime to influence carbon storage.

**Global Carbon Cycle and Climate Change
by Kirill YA Kondratyev, Vladimir F Krapivin, Costas A Varotsos**

Publisher: Springer
2003
Hard cover
ISBN-13: 9783540008095
ISBN: 3540008098

Book description

Professor Kondratyev and his team consider the concept of global warming due to the greenhouse effect and put forward a new approach to the problem of assessing the impact of anthropogenic processes. Considering data on both sources and sinks for atmospheric carbon and various conceptual schemes of the global carbon dioxide cycle, they suggest a new approach to studies of the problem of the greenhouse effect. They assess the role of different types of soil and vegetation in the assimilation of carbon dioxide from the atmosphere, and discuss models of the atmosphere ocean gas exchange and its role in the carbon dioxide cycle, paying special attention to the role of the Arctic Basin. The authors also consider models of other global atmospheric cycles



for a range of atmospheric constituents, and conclude by drawing together a range of scenarios on modelling the global carbon cycle.

Global Change and Local Places: Estimating, Understanding, and Reducing Greenhouse Gases
by Association of American Geographers GCLP Research Team (Author)

Publisher: Cambridge University Press
August 2003
Hardcover: 290 pp
Language: English
ISBN-10: 0521809509
ISBN-13: 978-0521809504

Book description

This study of greenhouse gas emissions examines the causes and effects of climate changes triggered by human activities. It is the first major, comparative study of how the emissions vary nationally--at the local level and on a daily basis. The authors assess the degree of control households and firms have over the emissions they produce; how willing they are to modify their behavior to lessen climate change, and how they might adapt to the changes that will occur.

Greenhouse Gas Emissions Global Business Aspects
by Michael See (Author)

Publisher: Springer
August 9, 2001
Hardcover: 300 pp
Language: English
ISBN-10: 3540678891
ISBN-13: 978-3540678892

Book description

The book principally addresses climate change and describes the remedial strategies for developing countries based on the 'Clean Development Mechanism' of the 'Kyoto Protocol'. It provides a very comprehensive account of the array of proposals and economic instruments devised by the international community - including the Joint Implementation and Emissions Trading initiatives of the Protocol - to abate global warming. The effects of other major atmospheric, land and water pollutants from industries and domestic sources are also covered.

Greenhouse Gas Sinks
by Reay, D.; N. Hewitt, K.; Smith, J. Grace

Publisher: CAB International
January 2007
ISBN: 1845931904

Book description



The many and varied sinks for greenhouse gases on Earth are nothing less than vital to life as we know it. For millennia they have maintained relatively balanced concentrations of carbon dioxide, methane and nitrous oxide in our atmosphere. Even when humankind drastically increased greenhouse emissions following the industrial revolution, many of the sinks responded by increasing their uptake rates, and so buffered our headlong drive towards enhanced global warming. Currently, the earth's carbon sinks reabsorb around half of all the extra carbon dioxide human activities add to the atmosphere each year. These sinks, though, are not infinite. Nor are they immune to climate change. How will they respond to global warming in the 21st century? Will higher temperatures release carbon locked in soils for centuries? How might drought in the Amazon affect the forest carbon sink? Will warmer oceans mean less or more uptake of carbon dioxide? These and other big questions in climate change science are discussed in this first comprehensive handbook of the earth's sinks for greenhouse gases.

**Global Warming and Social Innovation: The challenge of a climate neutral society
by Marcel Kok, Walter Vermeulen, Andre Faaij, and David de Jager (editors)**

November 2002

300 pp

ISBN 1853839450 / 9781853839450

ISBN 1853839442 / 9781853839443

Book description

Societies need to reduce emissions of greenhouse gases by 80 per cent in order to counter the risks of climate change. This study envisions a climate neutral society - one where the output of polluting gases is minimised by social innovations set up in households, by local authorities, through developments in information and communications technologies and dematerialization, and through the shift towards product service systems and emissions trading. The work discusses the possibilities for steering and orchestrating this long-term transition towards a climate-friendly society, mapping paths through current dilemmas in climate policy and exploring the legal issues of making this transition.



CLIMATE ACTION

Kick the Habit: A UN Guide to Climate Neutrality by UNEP

Publisher: UNEP
2008
Paperback
ISBN: 9789280729269

Book description

The worldwide discussion about climate change has been dominating the media for the last years and people all over the world have taken on the topic. Politicians advocate for change, for more sustainable living and for international agreements that view climate protection as a global responsibility. Also, more and more publications are written from an ever broadening field of scientific disciplines analyzing causes, linkages and impacts. In order to provide guidance for the increasing number of people that are convinced that action is necessary and are eager to contribute in this process, UNEP has prepared KICK THE HABIT A UN guide to Climate Neutrality, a publication which shows how we can get closer to climate neutrality on the various levels of our society.

KICK THE HABIT A UN guide to Climate Neutrality is written by experts from many disciplines and various countries, with leading research organizations involved in preparing and reviewing the publication. It is aimed at a broad audience, and it presents solutions for individuals, businesses, cities and countries plus other groups that have similar characteristics such as NGO and intergovernmental organizations. The book is rich in case studies, illustrations, maps and graphics and serves also as reference publication.

Climate Action by UNEP

Publisher: UNEP
2007
Paperback: 292 pp
ISBN: 9780955440854

Book description

Climate Action is an international communication platform established by Sustainable Development International in partnership with the United Nations Environment Programme (UNEP) to educate businesses, governments and NGOs as to what they can do to reduce their carbon footprint and adapt to the impacts of climate change.

Further, the high-profile publication and supporting website will assist institutional investors in analysing and comparing companies that are responding to the business risks and opportunities resulting from global warming.

Launched around the United Nations Climate Change Conference, Climate Action is officially supported by five influential organisations concerned with the successful mitigation of climate



change: Ceres (and its Investor Network on Climate Risk), FTSE4Good, The Carbon Trust and the Pew Center on Global Climate Change. With authors including Ban Ki-moon, Dr Rajendra Pachauri, Sir Nicholas Stern, Eileen Claussen, Mindy Lubber, Paul Dickinson and Hans Jurgen Stehr, the publication promotes multi-stakeholder dialogue between government and international industry, and highlights the sharing of best practice while raising awareness of the latest market trends, threats and opportunities in response to rising global temperatures.

Creating a Climate for Change: Communicating Climate Change and Facilitating Social Change
by **Susanne C. Moser (Editor), Lisa Dilling (Editor)**

Publisher: Cambridge University Press
February 2007
Hardcover: 576 pp
Language: English
ISBN-10: 0521869234
ISBN-13: 978-0521869232

Book description

The need for effective communication, public outreach and education to increase support for policy, collective action and behaviour change is ever present, and is perhaps most pressing in the context of anthropogenic climate change. This book is the first to take a comprehensive look at communication and social change specifically targeted to climate change. It is a unique collection of ideas examining the challenges associated with communicating climate change in order to facilitate societal response. It offers well-founded, practical suggestions on how to communicate climate change and how to approach related social change more effectively. The contributors of this book come from a diverse range of backgrounds, from government and academia to non-governmental and civic sectors of society. The book is accessibly written, and any specialized terminology is explained. It will be of great interest to academic researchers and professionals in climate change, environmental policy, science communication, psychology, sociology and geography.

Degrees That Matter: Climate Change and the University (Urban and Industrial Environments)
by **Ann Rappaport (Author), Sarah Hammond Creighton (Author), Lawrence Bacow (Foreword)**

Publisher: The MIT Press
May 2007
Hardcover: 376 pp
Language: English
ISBN-10: 0262182580
ISBN-13: 978-0262182584

Book description

Universities and colleges are in a unique position to take a leadership role on global warming. As communities, they can strategize and organize effective action. As



laboratories for learning and centers of research, they can reduce their own emissions of greenhouse gases, educate students about global warming, and direct scholarly attention to issues related to climate change and energy. Degrees That Matter offers practical guidance for those who want to harness the power of universities and other institutions, and provides perspectives on how to motivate change and inspire action within complex organizations.

The authors, drawing on almost a decade of experience leading the Tufts Climate Initiative and other institutional "greening" efforts, provide both the basic facts and more detailed information about climate issues. Some chapters can be used as stand-alone action guides for specific areas, while others put climate action in scientific, economic, and political contexts. The authors discuss the major sources of greenhouse gas emissions on campus and the importance of an emissions inventory for setting goals and strategies. They consider decision making (and decision makers), costs, budgets, and institutional priorities, and describe different emission reduction projects. They look at the importance of master planning for the university and the value of action by individual community members. Finally, they suggest climate action projects for the classroom and offer guidance for tapping student energy. Their aim is to inspire others to take on global warming regardless of organizational setting.

**Fight Global Warming Now: The Handbook for Taking Action in Your Community
by Bill McKibben (Author)**

Publisher: Holt Paperbacks
October 2007
Paperback: 224 pp
Language: English
ISBN-10: 0805087044
ISBN-13: 978-0805087048

Book description

Bestselling author Bill McKibben turns activist in the first hands-on guidebook to stopping climate change, the world's greatest threat Hurricane Katrina. A rapidly disappearing Arctic. The warmest winter on the East Coast in recorded history. The leading scientist at NASA warns that we have only ten years to reverse climate change; the British government's report on global warming estimates that the financial impact will be greater than the Great Depression and both world wars-combined. Bill McKibben, the author of the first major book on global warming, *The End of Nature*, warns that it's no longer time to debate global warming, it's time to fight it. Drawing on the experience of Step It Up, a national day of rallies held on April 14, McKibben and the Step It Up team of organizers provide the facts of what must change to save the climate and show how to build the fight in your community, church, or college. They describe how to launch online grassroots campaigns, generate persuasive political pressure, plan high-profile events that will draw media attention, and other effective actions. This essential book offers the blueprint for a mighty new movement against the most urgent challenge facing us today.

Ignition: What You Can Do to Fight Global Warming and Spark a Movement
by Jonathan Isham (Editor), Sissel Waage (Editor), Bill McKibben (Introduction)



Publisher: Island Press
 July 2007
 Paperback: 296 pp
 Language: English
 ISBN-10: 1597261564
 ISBN-13: 978-1597261562

Book description

It is one thing for citizens to recognize a problem; it is quite another for them to compel legislators to actually do something about it. Like the civil rights and women's campaigns before it, the climate movement, despite its so-called birth with the first Earth Day celebration in 1970, is still in its nascency; and like its forerunners, it, too, must rely heavily on the grassroots efforts of individuals to pressure government at every level, from local to international, to create and enforce the laws and regulations critical to stopping the eco-destruction of the planet. To learn what works and what doesn't in this basic form of activism, the editors have assembled a veritable who's who of scholars, student leaders, and civic officials that includes such environmental heavy hitters as Bill McKibben, Ted Nordhaus, and Jared Duval. The goal is to create a persuasive and constructive handbook designed to turn a groundswell of environmental awareness into a tidal wave of strategic initiatives specifically formulated for twenty-first-century issues and opportunities.

The Live Earth Global Warming Survival Handbook 77 Essential Skills to Stop Climate Change or Live through It by Rothschild, David de

Publisher: Transworld Publ. Ltd UK
 2007
 Paperback
 ISBN: 0753513307

Book description

The earth is warming, the fuel is running out, and the polar bears are in some serious trouble - what can we do? Help is at hand, in this fun, informative and indispensable guide, full of practical suggestions for averting climate change and some emergency suggestions to survive it. From the quick and easy changes, such as replacing one light bulb with an energy-efficient bulb and saving 25, to reducing your carbon footprint, these are real ways to change the way you live, change the world, and save some money! Put on a sweater, recycle your rubbish, 'green' your home and car, bank online, colonise space, adopt a glacier, plant a tree, become nocturnal, pack a time capsule, vote, evolve and pass it on.

The Climate Diet: How you can cut carbon, cut costs and save the planet by Jonathan Harrington

March 2008
 Paperback



ISBN: 9781844075331

Book description

The atmosphere is getting fat on our carbon and other greenhouse gas emissions and it needs our help. We live in a world of excess, consuming too much of everything – food, clothes, cars, toys, shoes, bricks and mortar. Our bingeing is often so extreme that it threatens our own health and wellbeing. And we are not the only ones who are getting sick. The Earth, which provides the food, air, water and land that sustains us, is also under severe pressure. We either take steps to put our personal and planetary systems back into balance or we suffer the consequences. So, what does any unhealthy overweight person do when the doctor tells him or her that they are eating themselves into an early grave? Go on a diet!

This is the must-have guide to the most important diet ever, explaining climate change concepts, problems and solutions in ways that anyone can easily understand. Following a five-step climate diet plan, families will be able to count their carbon calories and learn how to reduce them, leaving us with a slim healthy planet now and for the future.

How to Live a Low Carbon Life: The individual's guide to stopping climate change by Chris Goodall

February 2007

Paperback: 320 pp

ISBN 1844074269 / 9781844074266

Book description

Individual action is now recognized as one of the keys to tackling climate change – the greatest challenge facing humanity. How to Live a Low Carbon Life provides a comprehensive, one-stop reference guide to calculating individual carbon emissions and it lays out clear plans for how individuals can reduce their emissions. Covering all aspects of modern life from transport to home heating to where our food comes from to the vexing issue of holiday travel, the book provides easy-to-use tables for conducting a personal lifestyle 'carbon audit'. Written in an optimistic tone, it shows how easy it is to take responsibility and reduce our personal carbon emissions. A companion website provides easy-to-use spreadsheets and up to the minute figures and product information.

