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**Richard S.J. Tol**

# Climate Economics Economic Analysis Of Climate Climate Change And Climate Policy

**Richard S.J. Tol**



## **Climate Economics Economic Analysis Of Climate Climate Change And Climate Policy:**

**Climate Economics** Richard S.J. Tol, 2023-03-02 This thoroughly revised third edition offers comprehensive coverage of the economics of climate change and climate policy and is a suitable guide for advanced undergraduate postgraduate and doctoral students Topics discussed include the costs and benefits of adaptation and mitigation discounting uncertainty equity policy instruments the second best and international agreements

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**Climate Economics** Richard S.J. Tol, 2019 This unique and erudite second edition can be used at three different levels advanced undergraduate post graduate and doctoral It comprehensively covers the critical issues on the economics of climate change and climate policy features and clearly identifies the specific sections each level of reader should explore Topics include the costs and benefits of adaptation and mitigation discounting uncertainty policy instruments and international agreements Lectures can be combined with exercises guided reading or the building and application of an integrated assessment model The book is accompanied by a website with background material data opinion pieces and videos Although primarily intended for use in the classroom anyone with an interest in climate policy can use this text as a reference

*Climate Economics* Richard S J Tol, 2014-08-29 This unique textbook offers comprehensive coverage of the economics of climate change and climate policy and is suitable for advanced undergraduate post graduate and doctoral students Topics discussed include the costs and benefits of adaptation and

Climate Economics Michael Roos, Franziska M. Hoffart, 2020-11-13 This book is a philosophical critique of the economics of climate change from both an ethical and philosophy of economics perspective Mitigating climate change is not so much a scientific problem but rather a political social and above all an economic problem A future without greenhouse gas emissions requires a radical transformation towards a sustainable low carbon economy and society How this transformation could be achieved raises numerous economic questions Many of these questions remain untouched although economists are equipped with a suitable toolkit and expertise This book argues that economists have a social responsibility to carry out more research on how global warming could be stopped and that ultimately economic analysis of climate change must be a political

economic approach that treats the economy as part of a wider social system This approach will be of interest to policy makers educators students and researchers in support of more pluralism in economic research and teaching

*Economic Analysis of Land Use in Global Climate Change Policy* Thomas W. Hertel, Steven K. Rose, Richard S. J. Tol, 2009-05-07 Land has long been overlooked in economics That is now changing A substantial part of the solution to the climate crisis may lie in growing crops for fuel and using trees for storing carbon This book investigates the potential of these options to reduce greenhouse gas emissions estimates the costs to the economy and analyses the trade offs with growing food The first part presents new databases that are necessary to underpin policy relevant research in the field of climate change while describing and critically assessing the underlying data the methodologies used and the first applications Together the new data and the extended models allow for a thorough and comprehensive analysis of a land use and climate policy This book outlines key empirical and analytical issues associated with modelling land use and land use change in the context of global climate change policy It places special emphasis on the economy wide competition for land and other resources especially The implications of changes in land use for the cost of climate change mitigation Land use change as a result of mitigation and Feedback from changes in the global climate to land use By offering synthesis and evaluation of a variety of different approaches to this challenging field of research this book will serve as a key reference for future work in the economic analysis of land use and climate change policy

**The Economics and Politics of Climate Change** Dieter Helm, Cameron Hepburn, 2009-10-29 The volume brings together leading climate change policy experts to set out the economic analysis and the nature of the negotiations at the United Nations Climate Change Conference in Copenhagen and beyond

**The Economics of Climate Change: a Primer** the Congressional Budget Office, 2020-12-08 In *The Economics of Climate Change A Primer* the Congressional Budget Office presents a comprehensive exploration of the intricate economic implications of climate change arguing for a rigorous analytical framework to assess the impact of environmental policies Written in a clear and accessible style the book distills complex economic theories into digestible concepts making it a pivotal resource for policymakers economists and the general public Engaging with real world examples and empirical data the authors dissect the cost benefit relationships inherent in climate policy shedding light on fiscal accountability and resource allocation in the face of a global crisis The Congressional Budget Office a nonpartisan agency that provides economic analysis to support legislative decisions draws on a wealth of research and expertise in fiscal forecasting The agency's commitment to evaluating the long term economic consequences of climate policies stems from an increased urgency surrounding environmental issues and a mandate to inform Congress regarding budgetary effects This distinguished background lends a significant degree of authority and relevance to the book's analyses reflecting not only the urgency of the climate crisis but also the nuanced challenges that policymakers face Readers are encouraged to delve into this enlightening primer as it offers crucial insights into the fiscal dimensions of climate change equipping them with the knowledge to engage

meaningfully in public discourse Whether you are a student of economics an environmental advocate or simply a concerned citizen this book serves as an essential guide that elucidates the intersection of economic policy and environmental sustainability

*Values in Climate Policy* David Morrow, 2019-10-28 Children born today in the Maldives may someday have to abandon their homeland Rising seas caused by climate change could swallow most of their tiny island nation within their lifetime Their fate symbolizes the double inequity at the heart of climate change those who have contributed the least to climate change will suffer the most from it All is not lost however The scale and impact of climate change depends on the policies that people choose How quickly will we eliminate our greenhouse gas emissions How will we do it Who will pay for it What will we protect through adaptation How will we weigh the fortunes of future generations and the natural world against our own Answers to questions like these reflect a constellation of value judgments that deserve close scrutiny In addition to providing essential background on the science economics and politics of climate change this book explores the values at stake in climate policy with the aim of shrinking the gap between climate ethics and climate policy

*The Ethical Underpinnings of Climate Economics* Adrian Walsh, S  de Hormio, Duncan Purves, 2016-10-04 Despite their obvious importance the ethical implications of climate change are often neglected in economic evaluations of mitigation and adaptation policies Economic climate models provide estimates of the value of mitigation benefits provide understanding of the costs of reducing emissions and develop tools for making policy choices under uncertainty They have thus offered theoretical and empirical instruments for the design and implementation of a range of climate policies but the ethical assumptions included in the calculations are usually left unarticulated This book which brings together scholars from both economics and ethical theory explores the interrelation between climate ethics and economics Examining a wide range of topics including sustainability conceptions of value risk management and the monetization of harm the book will explore the ethical limitations of economic analysis but will not assume that economic theory cannot accommodate the concerns raised The aim in part is to identify ethical shortcomings of economic analysis and to propose solutions Given the on going role of economics in government thinking on mitigation a constructive approach is vital if we are to deal adequately with climate change This volume will be of great interest to students and scholars of environmental ethics economics political science political philosophy and the philosophy of economics

**Climate Change in Sub-Saharan Africa Fragile States: Evidence from Panel Estimations** Mr. Rodolfo Maino, Drilona Emrullahu, 2022-03-18 Fragile states in sub Saharan Africa SSA face challenges to respond to the effects of climate shocks and rising temperatures Fragility is linked to structural weaknesses government failure and lack of institutional basic functions Against this setup climate change could add to risks A panel fixed effects model 1980 to 2019 found that the effect of a 1 C rise in temperature decreases income per capita growth in fragile states in SSA by 1.8 percentage points Panel quantile regression models that account for unobserved individual heterogeneity and distributional heterogeneity corroborate that the effects of higher temperature on income per

capita growth are negative while the impact of income per capita growth on carbon emissions growth is heterogeneous indicating that higher income per capita growth could help reduce carbon emissions growth for high emitter countries These findings tend to support the hypothesis behind the Environmental Kuznets Curve and the energy consumption growth literature which postulates that as income increases emissions increase *pari passu* until a threshold level of income where emissions start to decline

*The Economics of Climate Change* Nick Hanley,Anthony D Owen,2004-05-06 This impressive new collection couldn't come at a better time With global warming now becoming physically noticeable and the Kyoto treaty stalling in its efforts to get the developed world on board a look at the economic factors of global warming is very much welcome With contributions from distinguished authors and covering everything you need

*The Oxford Handbook of Climate Change and Society* John S. Dryzek,Richard B. Norgaard,David Schlosberg,2011-08-18 A systematic examination by the best writers in a variety of fields working on issues of how climate change affects society and how social economic and political systems can do and should respond

**Climate Change Economics: Commemoration Of Nobel Prize For William Nordhaus** Robert O Mendelsohn,2021-11-15 Professor William Nordhaus was honored with a Nobel Prize in Economics for his lifetime contributions to research and policy on climate change and macroeconomics This book contains a collection of essays written by eleven leading climate change economists describing precisely how Professor Nordhaus changed climate change economics The essays highlight the major contributions that Professor Nordhaus has made to understanding climate change The book also discusses the important contributions Professor Nordhaus has made to develop effective policies to manage greenhouse gases both now and far into the future Several authors also thank Professor Nordhaus for the influence he has had on the trajectory of their own careers Finally the essays press forward and discuss how the entire field continues to work on perfecting both climate change economics and policy

*Routledge Handbook of the Economics of Climate Change Adaptation* Anil Markandya,Ibon Galarraga,Elisa Sainz de Murieta,2014-01-03 Climate change is one of the greatest challenges facing human kind owing to the great uncertainty regarding future impacts which affect all regions and many ecosystems Many publications deal with economic issues relating to mitigation policies but the economics of adaptation to climate change has received comparatively little attention However this area is critical and a central pillar of any adaptation strategy or plan and is the economic dimension which therefore merits the increase in attention it is receiving This book deals with the difficulties that face the economics of adaptation Critical issues include uncertainty baselines reversibility flexibility and adaptive management distributional impacts discount rates and time horizons mixing monetary and non monetary evaluations and limits to the use of cost benefit analysis economy wide impacts and cross sectoral linkages All of these are addressed in the book from the perspective of economics of adaptation Other dimensions of adaptation are also included such as the role of low and middle income countries technology and the impacts of extreme events This timely book will prove essential reading for international researchers and policy makers in the fields

of natural resources environmental economics and climate change      Distributional Aspects of Energy and Climate Policies Mark A. Cohen, Don Fullerton, Robert H. Topel, 2013-05-31 Governments around the globe have begun to implement various actions to limit carbon emissions and so combat climate change This book brings together some of the leading scholars in environmental and climate economics to examine the distributional consequences of policies that are designed to reduce these carbon emissions Whether through a carbon tax cap and trade system or other mechanisms most proposals to reduce carbon emissions include some kind of carbon pricing system shifting the costs of emissions onto polluters and providing an incentive to find the least costly methods of abatement This standard efficiency justification for pricing carbon also has important distributional consequences a problem that is often ignored by economists while being a major focus of attention in the political arena Leading scholars in environmental and climate economics take up these issues to examine such questions as Will the costs fall on current or future generations Will they fall on the rich poor middle class or on everyone proportionally Which countries will benefit and which will suffer Students and scholars interested in climate change along with policy makers will find this lively volume an invaluable addition to the quest for information on this globally important issue      International Trade Policies and Climate Change Governance P.K. Rao, 2012-01-05 This work offers a synthesis of the current approaches toward an integration of international trade and climate change with a view to fostering potential improvements in policies and institutions affecting these A number of pragmatic measures are proposed with reference to the WTO and the United Nations Framework Convention on Climate Change UNFCCC regimes which are expected to contribute toward enhanced climate change governance as well as promoting international trade      **Climate Change 2001: Mitigation** Intergovernmental Panel on Climate Change. Working Group III., 2001-07-12 IPCC assessment of the scientific technical environmental economic and social aspects of the mitigation of climate change      **The Political Economy of Underdevelopment in Sub-Saharan Africa** Christopher E.S. Warburton, 2024-10-14 This book provides a unique combination of history politics and economics to rationalize the progression of underdevelopment in Sierra Leone and the challenges of economic growth and development confronting some Sub Saharan African countries It concisely presents the internal frictions that are most responsible for the underdevelopment of Sierra Leonean since 1961 while also benchmarking the performance of the country with some countries in the subregion Europe the US Latin America and Asia It highlights the external threats that are highly capable of stifling the economic growth and sustainable development of the country including sovereign debt the paucity of human capital the use of natural resources and external shocks The central concepts of analysis include the premise for underdevelopment contexts for business strategies and rivalry in an underdeveloped economy economic growth productivity sustainable development international trade and threats to macroeconomic stability in the form of volatile commodity prices loss of competitiveness inaccessible foreign markets deficient healthcare infrastructure the cost of unsustainable sovereign debt and the viability of long term investments The book has been intentionally developed for

all those who are strongly interested in the political economy of Sub Saharan Africa with particular emphasis on Sierra Leone empirical work on economic growth and development academic instruction on international political economy international organizations and policymakers      *Climate Change: Science, Strategies, and Solutions* Eileen Claussen, 2022-05-16 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

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