

# The Economics of Climate Change Policy

## International, National and Regional Mitigation Strategies

**Adam Rose**, University of Southern California, US

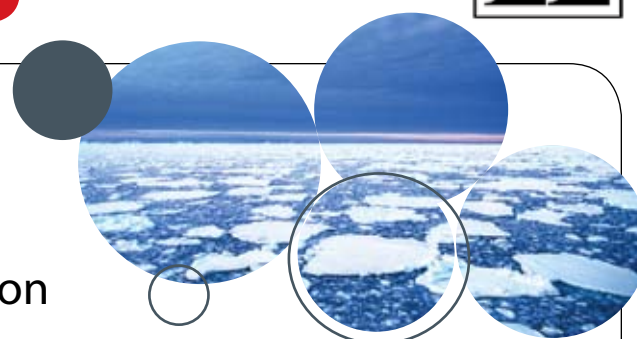
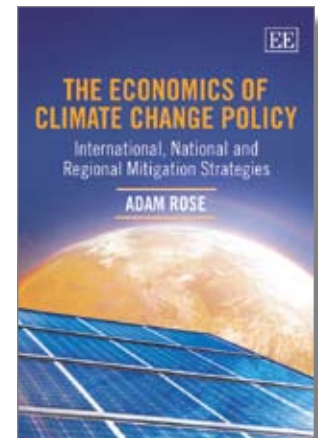
This important collection embodies the author's pioneering and on-going efforts to incorporate equity and efficiency principles into the economics of climate change policy. It represents a valuable compendium of work, both previously published and original, the range of which is not otherwise readily accessible.

Adam Rose was one of the first both to identify the central role of equity among nations and regions in addressing greenhouse gas (GHG) mitigation and to quantify many equity principles so they could be incorporated into formal models. Comprising classic explorations into GHG emission trading design with respect to burden-sharing, borrowing and banking, and political constraints, the papers contained in this volume provide guidance on coalition choices for individual states of the US and partnership choices for developing countries involved in the Clean Development Mechanism today and in emission allowance trading in the future. The impacts of mitigation policy across industries and socioeconomic groups are also analysed, using computable general equilibrium models to examine the economic implications of carbon taxes, fuel taxes, tradable emission permits, and strict regulation. In addition, the book establishes a firm grounding for policy analysis by providing a basic understanding of the carbon cycle, drivers of GHG emissions, and some economic impacts of climate change.

*The Economics of Climate Change Policy* will be of great interest and value to academics and students of environmental economics and policy and will be welcomed by environmental policy-makers involved in climate change issues at the local, regional, national and international level.

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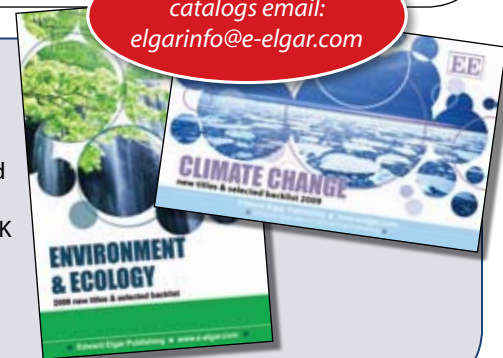


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#### Preface • Acknowledgements

Introduction: A Personal, Professional and Policy Odyssey

#### PART I: INTRODUCTION AND OVERVIEW

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#### PART IV: INTERNATIONAL EQUITY AND GLOBAL COOPERATION

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#### PART V: NATIONAL IMPACTS OF MITIGATION POLICY

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The Economics of Climate. On the cover. Time is running out to save our planet, and everyone has a responsibility to act. Illustrator Davide Bonazzi's December 2019 cover likens the threat of climate change to the closing jaws of a crocodile, shown in silhouette against a steadily warming earth. 2 FINANCE & DEVELOPMENT | December 2019. FINANCE & DEVELOPMENT A Quarterly Publication of the International Monetary Fund. Governments can roll out policies to fight climate change and the destruction of nature, for example, through promotion of clean-technology research and development. Change must begin now, and it must encompass us all. The youth of today understand this—think about courageous young people like Greta Thunberg and others like her. Data and research on climate change including adaptation, climate finance, international climate framework, carbon markets, UNFCCC, cities, flood risk, Climate Change Expert Group (CCXG). , Against the background of a projected doubling of world greenhouse gas emissions by mid-century, this book explores feasible ways to abate them at least cost. OECD Home Environment Directorate Climate change The Economics of Climate Change Mitigation: Policies and Options for Global Action Beyond 2012. Climate change. The Economics of Climate Change Mitigation: Policies and Options for Global Action Beyond 2012. Executive Summary | Table of Contents | Key Facts & Figures | Policy Brief. How to obtain this publication | Additional Information. This article is about the economics of climate change mitigation. Mitigation of climate change involves actions that are designed to limit the amount of long-term global warming. Mitigation may be achieved through the reduction of greenhouse gas (GHG) emissions or through the enhancement of sinks that absorb GHGs, for example forests. In this article, the phrase "climate change" is used to describe a change in the climate, measured in terms of its statistical properties, e.g., the global mean surface

Introduction: Scientific Background. Substantial Biophysical Damages Will Occur in the Absence of Strong Climate Policy Action. The world's climate has already changed measurably in response to accumulating greenhouse gas (GHG) emissions. These changes as well as projected future disruptions have prompted intense research into the nature of the problem and potential policy solutions. This document aims to summarize much of what is known about both, adopting an economic lens focused on how ambitious climate objectives can be achieved at the lowest possible cost. Considerable uncertainties surround the science of climate change. Climate change is a serious and urgent issue. He leads the Stern Review on the Economics of Climate Change, reporting to the United Kingdom's Chancellor of the Exchequer and to the Prime Minister. The report will be published in Autumn 2006. From basic game theory, we know that, for example, policy requires the promotion of a collaborative solution to games with "free-rider" problems: in other words, the international community, if it is to act effectively, must find a collective global way forward, building clear long-term international agreements within which markets and entrepreneurs can function. Areas of climate economics research include economic analyses of regulatory policy instruments such as emissions trading, estimation of greenhouse gas reduction benefits, the role of uncertainty, and modeling the economic impacts of ocean acidification. Related Links. Climate Change Site - Economic Analysis. Related References. Regulating Emissions: Prescriptive versus Market-Based Approaches. Since the 2007 Supreme Court ruling that concluded CO2 and other GHGs are pollutants, debate over policy approaches to addressing climate change has intensified in the United States. A number of theoretical and empirical studies have shown important advantages of market-oriented policies over command-and-control approaches to controlling pollution. Climate change litigation shows no sign of abating as plaintiffs use a variety of strategies to bring lawsuits against governments and Carbon Majors. Publications. Climate Change and the Governance of Corporations: Lessons from the Retail Sector. Climate Change and the Governance of Corporations: Lessons from the Retail Sector. Speaker(s): Dr Rory Sullivan, Professor Andy Gouldson, Helena Viñes Fiestas, Hugh Wheelan, Mike Barry 4 Nov 2020 at Online - via Gotowebinar. The Triple Dividend of Resilience: from concept to application. Speaker(s): Swenja Surminski, Emily Wilkinson, Thomas Tanner, Ulrich Volz, Viktor Roezer 5 Nov 2020 at Online (via Zoom). International Climate Politics after the US Presidential Election.