# Economic Growth and the Environment

by Sander M. de Bruyn



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# **Economic Growth And The Environment An Empirical Analysis**

**Padhraic Smyth** 

#### **Economic Growth And The Environment An Empirical Analysis:**

Economic Growth and the Environment Sander M. de Bruyn,2012-12-06 Is economic growth good for the environment A number of economists have claimed that economic growth can benefit the environment recruiting political support and finance for environmental policy measures This view has received increasing support since the early 1990s from empirical evidence that has challenged the traditional environmentalists belief that economic growth degrades the environment This book reviews the theoretical and empirical literature on growth and the environment giving an in depth empirical treatment of the relationship between the two Various hypotheses are formulated and tested for a number of indicators of environmental pressure The test results indicate that alternative models and estimation methods should be used altering previous conclusions about the effect of economic growth on the environment and offering an insight into the forces driving emission reduction in developed countries

Economic Growth and the Environment Sander M De Bruyn,1966-01-01

Economic Growth, the Environment and International Relations Stephen J. Purdey,2010-01-04 This book critically examines the deep origins and rise to prominence of the idea of economic growth and uses a neo Gramscian approach to explore the environmental consequences of this paradigm

Economic Growth and Valuation of the Environment Ekko Ierland, Jan van der Straaten, Herman R. J. Vollebergh, 2001-01-01 The debate on the valuation of nature and the environment sustainable national income and economic growth is one of prime importance in environmental economics Economic Growth and Valuation of the Environment deals with the fundamental approaches to cal Trade Liberalisation, Economic Growth, and the Environment Matthew A. Cole, 2000 This study continues the debate about the impact of trade liberalisation on the environment paying particular attention to institutional settings GATT and WTO for example It also outlines divergent views about the relationship between trade and environment and draws global policy conclusions **Economic Analysis Of Green Development In China** Zhiqing Li,2023-09-12 China has promised to achieve carbon peaking by 2030 and carbon neutrality by 2060 To achieve this goal the country must implement necessary reforms and focus on innovation in areas of economics and finance This book explores main challenges that China may face in achieving green and low carbon development analyzes green and low carbon related issues from the economic perspective and proposes countermeasures as required The book further helps readers understand China's progress in protecting its environment achieving sustainable development facilitating green investments and in being a green economy Economic Growth and Environmental Regulation Tim Swanson, Tun Lin,2009-12-04 This volume assembles a group of eminent scholars to look at the problem of growth and environment from the perspective of environmental regulation The questions addressed are How does economic growth interact with regulation and what are the best approaches to regulation in use today The context for the volume is the current situation in China where twenty years of rapid growth have created a situation in which there are both demands for environmental regulation

and needs for choosing a future development path The advent of A Macro Environmental Strategy for China presents an opportunity to ask how and why China should introduce regulation into its management of its development The volume includes contributions from leading Chinese experts and established environmental economists from other countries including Timo Goeschl Ben Groom and Andreas Kontoleon The volume looks at both the demand side of environmental regulation and the supply side The demand side of regulatory intervention examines how regulation operates to supplement existing resource allocation mechanisms via effective demand aggregation and implementation mechanisms. The supply side of regulation examines how regulation operates to guide industrial growth down particular pathways in the pursuit of managed development Both sides of environmental regulation involve the important issue of implementation and enforcement This volume will be of most value to academics and scholars of environmental economics growth economics the Chinese economy and policy makers of environmental regulations Theoretical and Empirical Analysis in **Environmental Economics** Keiko Nakayama, Yuzuru Miyata, 2019-05-17 This monograph presents potential remedies for some of the current environmental issues in developed countries in a theoretical or empirical manner with the interdisciplinary approaches of economics statistics and engineering The book illustrates effective economic and environmental policies for environmental challenges and factors where corrective policies to date may have failed The importance of this essential book has is related to the transition in the major concerns of the people or governments in developed countries shifting from economic growth to the stability of life and environmental preservation as their economies have matured The environmental issues dealt with here include forest environment tax introduced as part of local taxes air pollution reduction policies for mobile emission sources introduction of renewable energies and power fuel cell technology the mechanism of city agglomeration and dispersion and measurement of environmental sustainability In analytical methods some research employs theoretical approaches such as the mathematical economic model or nonlinear dynamic model Other analyses are implemented with empirical or statistical tools such as the long run general equilibrium model the input output model and the dynamic optimization model among others

Economic Growth, Material Flows and the Environment Rutger Hoekstra, 2005-01-01 This volume provides a valuable introduction to hybrid I O analysis and therefore should be useful to the growing number of researchers working with these techniques Timothy J Considine Journal of Industrial Ecology This is a first rate piece of work Dr Hoekstra's book is the most comprehensive assessment of economic decomposition analysis to date The author has clarified some confusions filled in some important gaps in the literature and extended the methods both conceptually and empirically He has done a most thorough job of constructing hybrid input output tables and applied them to the important issue of trends in material production use His use of SDA for forecasting and backcasting of trends and policy making is also very impressive Adam Rose Pennsylvania State University US Rutger Hoekstra examines the complex relationship between the monetary economy and the materials flows that are extracted and emitted by economic

activities These physical flows are responsible for many important environmental problems such as unsustainable resource depletion waste production and climate change This book discusses applies and improves upon techniques which link the monetary and physical economies for environmental analyses The book uses two sources of analysis the physical input output table PIOT a macro economic account for the physical economy recording material and product flows including resource extraction emissions and recycling and structural decomposition analysis SDA which assesses the influence of structural changes such as economic growth consumption shifts export growth and technological change on environmental indicators Methodological improvements in the PIOT and SDA systems are then presented by the author and applied to empirical data Ecological and industrial economists along with those with an interest in environmental problems associated with the economy will find this book with its extensive historical analysis and novel fore and back casting models to be a fascinating The Economics of the Environment and Natural Resources Quentin Grafton, Wiktor Adamowicz, Diane Dupont, Harry read Nelson, Robert J. Hill, Steven Renzetti, 2008-04-15 The Economics of the Environment and Natural Resources covers the essential topics students need to understandenvironmental and resource problems and their possible solutions Its unique lecture format provides an in depth exploration of discrete topics ideal for upper level undergraduate graduate or doctoral study Each chapter depicts the key theoretical insights major issues and real life problems that motivate the subject Inaddition the chapters feature practical applications and casestudies a list of annotated further reading and extensivereferences Offers broad treatment of issues in Environmental and ResourceEconomics Provides in depth exploration of a wide range of topics withits unique lecture format Depicts key theoretical insights major issues and real lifeproblems for each subject Features case studies annotated further reading extensivereferences and a detailed glossary Growth and Environmental Quality in a Post-Pandemic World Muhammad Shahbaz, Daniel Balsalobre Lorente, Rajesh Sharma, 2023-07-28 In response to the damage caused by a growth led global economy researchers across the world started investigating the association between environmental pollution and its possible determinants using different models and techniques Most famously the environmental Kuznets curve hypothesizes an inverted U shaped association between environmental quality and gross domestic product GDP This book explores the latest literature on the environmental Kuznets curve including developments in the methodology the impacts of the pandemic and other recent findings Researchers have recently broadened the range of the list of drivers of environmental pollution under consideration which now includes variables such as foreign direct investment trade expansion financial development human activities population growth and renewable and nonrenewable energy resources all of which vary across different countries and times And in addition to CO2 emissions other proxies for environmental quality such as water land and ecological footprints have been used in recent studies This book also incorporates analysis of the relationship between economic growth and the environment during the COVID 19 crisis presenting new empirical work on the impact of the pandemic on energy use the financial sector trade and

tourism Collectively these developments have improved the direction and extent of the environmental Kuznets curve hypothesis and broadened the basket of dependent and independent variables which may be incorporated This book will be invaluable reading for researchers in environmental economics and econometrics An Empirical Analysis of the Interactions Between Environmental Regulations and Economic Growth Chali Nondo, 2009 ABSTRACT The purpose of this research is to examine the relationship between environmental regulation and economic growth A four equation regional growth model is used to analyze the simultaneous relationships among changes in population employment per capita income and environmental regulations for the 410 counties in Appalachia Our results reveal that initial conditions for environmental regulation are negatively related to regional growth factors of change in population per capita income and total employment From this we infer that the diversion of resources from production and investment activities to pollution abatement is inadvertently transmitted to other sectors of the economy thereby resulting in a slow down of regional growth We also find robust evidence that show that changes in environmental regulations positively influence changes in population total employment and per capita income Thus we parsimoniously conclude that in the long run environmental regulations are not Environmental Sustainability Raghbendra Jha, K.V. Bhanu Murthy, 2006-09-27 With detrimental to economic growth globalization fast becoming an irreversible process it is necessary to pay increased attention to the implications for environmental sustainability However the so called environmental Kuznets curve EKC argument implies that rapid economic growth in many developing countries should be environmentally unsustainable Environmental Sustainability addresses this dichotomy and articulates a notion of consumption sustainability that is both universal and pertains to the indefinite future Additionally it emphasizes the importance of addressing a broad spectrum of sources of environmental degradation and relates this measure to an index of economic achievement more complete than per capita income As well as the EKC authors Jha and Murthy also critique the Environmental Sustainability Index ESI and empirically substantiate the proposition that a certain type of development in the presently high income countries is primarily responsible for global environmental degradation Several policy conclusions for global environmental management are also advanced Throughout Jha and Murthy comprehensively evaluate existing approaches to environmental sustainability and critically review empirical studies of environmental degradation and economic development making this an invaluable source of information for those concerned with environmental economics and political economy

Human Capital, Trade, and Public Policy in Rapidly Growing Economies Michele Boldrin, Been-Lon Chen, Ping Wang, 2004-01-01 Human Capital Trade and Public Policy in Rapidly Growing Economies argues that only two centuries ago no society had ever enjoyed sustained growth in living standards The contributors to this book aim to discover why the world today exhibits a predilection for perpetual self improvement In particular the book focuses on the forces underlying long lasting growth in East Asia's Newly Industrialized Countries NICs Drawing from the experiences of Hong Kong South Korea Singapore and Taiwan it guestions whether public policy can

contribute to removing barriers towards accumulation of wealth and if so what development policy should be put in place to remedy the existing distortions or market failure problems Handbook on Energy and Economic Growth Mohamed Arouri, Mathieu Gomes, 2024-07-05 This comprehensive Handbook examines the links between energy the economy and the environment Esteemed international experts explore the ways in which energy contributes to economic growth particularly in the context of geopolitical uncertainties Models of Economic Growth with Environmental Assets A. Beltratti, 2013-03-09 The connection between economic growth and the quality of the environment is a popular subject Since the second half of the 1980s there has been an increasingly frequent use of the term sustainable development to refer to the preoccupation that the production of goods and services may decrease standards of living It is natural to analyze this question from the point of view of economic models which may be helpful in at least identifying the main factors behind such preoccupations and perhaps in suggesting policy measures Indeed models are useful to discuss some relevant factors like the structure of production of the economy the type of preferences and goals pursued by agents and the elements of uncertainty This monograph will consider some of these themes there will be a study of the analytical framework which can be used for the purpose of defining and analyzing sustainability and some discussion of how to calibrate a restricted version of the model to empirical data There will be also some analysis about which type of uncertainty should be incorporated into the model and which objective functions may be useful for policy purposes Also there will be discussions about the key variables which should be included and some description of a general framework Economic Growth and Environmental Sustainability Paul Ekins, 2002-01-04 A key area of public policy in the last twenty years is the question of how and how much to protect vthe environment At the heart of this has been the heated debate over the nature of the relationship between economic growth and environmental sustainability Is environemental sustainability economic growth or green growth a contradiction in terms Avoiding the confusion that often surrounds these issues Ekins provides rigorous expositions of the concept of sustainability integrated environmental and economic accounting the Environmental Kuznets Curve the economics of climate change and environmental taxation Individual chapters are organised as self contained state of the art expositions of the core issues of environmental economics with extensive cross referencing from one chapter to another in order to guide the student or policy maker through these complex problems Paul Ekins breaks new ground in defining the conditions of compatibility between economic growth and environmental sustainability and provides measures and criteria by which the environmental sustainability of economic growth as it occurs in the real world may be judged It is argued that green growth is not only theoretically possible but economically achievable and the authors show what environmental and economic policies are required to achieve this Economic Growth and Environmental Sustainability will be welcolmed by students of and researchers in environmental economics and environmental studies as well as all interested policy makers **Sustainable Development in Economic Growth Theory** Yoshihiro Hamaguchi, 2025-08-23 This book is made up of five parts and 17

chapters In each part the basic R D based growth model is explained and the basic model is expanded by incorporating pollution emissions and environmental policy In all the chapters the overall picture of the economic model is presented in diagrams and environmental taxes or emissions trading are considered as environmental policy Part 1 presents the book s issues and research agenda based on a concise survey of research trends The variety expansion model and the mechanism of sustainable development through labour migration from the goods sector to the R D sector via environmental policy and interest rate manipulation are explained Part 2 shows that the growth promoting effect of environmental policy in a variety expansion model with physical capital is influenced by household preferences including leisure social status and non homothetic preferences In Part 3 after the R D based location model is explained pollution emissions and emissions trading are introduced and the mechanisms of the pollution haven hypothesis and the sustainable tourism through direct regulation and industrial agglomeration are explained Part 4 highlights that under the overlapping double regulation environmental taxes inhibit the pollution reduction effect of emissions trading while the additional burden of double regulation provides an incentive to evade taxes In Part 5 the R D based model with heterogeneous firms is explained Environmental policies affect industrial structure under a discriminatory environmental tax rate for local and export firms and the Porter hypothesis mechanism is explained In the conclusion the main results of this book are outlined In addition to the empirical implications and policy recommendations the limitations of this book and future directions are discussed **Human and Environmental** Security in the Era of Global Risks Mohamed Behnassi, Himangana Gupta, Olaf Pollmann, 2018-10-24 This book discusses ways to deepen the debate on the linkages between global risks and human and environmental security The approach put forward in this book is one of questioning the ability of existing concepts regulatory frameworks technologies and decision making mechanisms to accurately deal with emerging risks to human and environmental security and to act in the direction of effectively managing their impacts and fostering the resilience of concerned systems and resources Empirical research findings from Africa Asia and the Pacific Islands are provided During the last decades the links between emerging risks and the security of humans and nature have been the object of considerable research and deliberations However it is only recently becoming an important focus of policy making and advocacy In this contributed volume it is presumed that the ability or lack thereof to make innovative conceptual frameworks institutional and policy arrangements and technological advances for managing the current emerging risks will foster or undermine the environmental security and consequently determine the future human security Moreover taking into account the links between environmental climate security human security and sustainability will help frame a new research agenda and potentially develop a broad range of responses to many delicate questions

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