

Hidden Costs Of Energy Unpriced Consequences Of Energy Production And Use

Energy Subsidy Reform - Lessons and Implications International Monetary Fund. Fiscal Affairs Dept. 2013-01-28 Energy subsidies have wide-ranging economic consequences. While aimed at protecting consumers, subsidies aggravate fiscal imbalances, crowd-out priority public spending, and depress private investment, including in the energy sector. Subsidies also distort resource allocation by encouraging excessive energy consumption, artificially promoting capital-intensive industries, reducing incentives for investment in renewable energy, and accelerating the depletion of natural resources. Most subsidy benefits are captured by higher-income households, reinforcing inequality. Even future generations are affected through the damaging effects of increased energy consumption on global warming. This paper provides: (i) the most comprehensive estimates of energy subsidies currently available for 176 countries; and (ii) an analysis of how to do energy subsidy reform, drawing on insights from 22 country case studies undertaken by IMF staff and analyses carried out by other institutions.

Viewing America's Energy Future in Three Dimensions L. Louis Hegedus 2011-06-16 The future of the US energy infrastructure is a major and urgent challenge for our society. This monograph was stimulated by a report of the National Academies' Committee on America's Energy Future, *America's Energy Future: Technology and Transformation*, Summary Edition, 2009. The report pointed out the critical but poorly understood and little explored role of societal considerations in determining the fate of national energy policies and programs. In our efforts to respond to those concerns, we have examined the thesis that the three major dimensions of the energy challenge—technology, economics, and societal—are overlapping, interactive, and inseparable; therefore, they can be understood only when considered simultaneously and discussed in terms of their

interactions. Correspondingly, this monograph describes energy technologies in the context of their economic and societal contexts, energy economics in their technological and societal contexts, and the societal aspects of energy in their technological and economic contexts. The monograph then identifies social science-driven research opportunities pertaining to America's energy challenge, with the hope that the proposed research will help not only overcome the societal barriers identified by the National Academies' report, but also harness societal forces in developing a rational energy future.

Public Economics in the United States Steven Payson 2014-06-11 This comprehensive explanation of the U.S. government's role in economics will be an eye-opener for anyone who wants to understand exactly what the government does—and doesn't do—in this most critical area. Most people, including many economists, are not aware of the great variety of crucial tasks and invaluable analyses undertaken by government economists. This three-volume set will fill that gap with an all-encompassing overview of the major economics-related work the government performs across all of its agencies and offices. With 45 chapters written by 61 leading experts, the work covers every major topic in government economics, including such diverse areas as monetary policy, defense spending, social assistance, international trade, antitrust, and environmental protection. In addition to entries by those who teach economics, the compendium also features candid observations from government insiders to help readers grasp how things really work. But readers will not only gain insight into specific fields and topics, they will also be able to better understand the big picture and how its pieces fit together. This unique and far-reaching set often challenges conventional wisdom even as it presents a novel synthesis of the government's research, analysis—and actions.

Energy Policy Analysis: A Conceptual Framework Michael S.

Hamilton 2015-05-18 Presented in nontechnical terms, this book offers a unique and powerful conceptual framework for analysis of energy technologies (standard and alternative) in terms of their respective dollar costs, environmental costs, and national security costs. Energy technologies examined include coal, nuclear, oil, natural gas, solar, wind, geothermal, hydropower, biomass and biogas, energy conservation and efficiency, ocean power, hydrogen, electric power and transmission, and transportation. This three-point framework allows examination of issues and problems associated with implementation of U.S. energy policies in the context of major social goals (such as growth and equity), with treatment of conflicts and trade-offs between energy development and other social values (such as health and safety, cultural, historical, and aesthetic values). These are the key political issues for policy makers formulating national energy policy and decisions makers implementing it.

Smart Grids Stuart Borlase 2017-11-22 The latest edition features a new chapter on implementation and operation of an integrated smart grid with updates to multiple chapters throughout the text. New sections on Internet of things, and how they relate to smart grids and smart cities, have also been added to the book. It describes the impetus for change in the electric utility industry and discusses the business drivers, benefits, and market outlook of the smart grid initiative. The book identifies the technical framework of enabling technologies and smart solutions and describes the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort. With chapters written by leading experts in the field, the text explains how to plan, integrate, implement, and operate a smart grid.

Sustainable Energy, second edition Jefferson W. Tester 2012-10-05 The second edition of a widely used textbook that explores energy resource options and technologies with a view toward achieving sustainability on local, national, and global scales. Human survival depends on a continuing supply of energy, but the need for ever-increasing amounts of it poses a dilemma: How can we find energy sources that are sustainable and ways to convert and utilize energy that are more efficient? This

widely used textbook is designed for advanced undergraduate and graduate students as well as others who have an interest in exploring energy resource options and technologies with a view toward achieving sustainability on local, national, and global scales. It clearly presents the tradeoffs and uncertainties inherent in evaluating and choosing sound energy portfolios and provides a framework for assessing policy solutions. The second edition examines the broader aspects of energy use, including resource estimation, environmental effects, and economic evaluations; reviews the main energy sources of today and tomorrow, from fossil fuels and nuclear power to biomass, hydropower, and solar energy; treats energy carriers and energy storage, transmission, and distribution; addresses end-use patterns in the transportation, industrial, and building sectors; and considers synergistic complex systems. This new edition also offers updated statistical data and references; a new chapter on the complex interactions among energy, water, and land use; expanded coverage of renewable energy; and new color illustrations. Sustainable Energy addresses the challenges of making responsible energy choices for a more sustainable future.

The Quality of Air 2016-07-26 The Quality of Air discusses the topic from both the environmental and human health points-of-view. As today's policymakers, academic, government, industrial researchers, and the general public are all concerned about air pollution in both indoor and outdoor scenarios, this book presents the advances in the analytical tools available for air quality control within social, political, and legal frameworks. With its multi-author approach, there is a wide range of expertise in tackling the topic. - Addresses real scenarios of polluted sites - Presents updates of the available methodologies for the quality control of indoor and outdoor air - Includes evaluations of working scenarios in different fields as mandated by regulations

Water and Energy Gustaf Olsson 2015-06-14 Rapid and important developments in the area of energy - water nexus over the last two to three years have been significant. This new edition of Water and Energy: Threats and Opportunities is timely and continues to highlight the inextricable link between water and energy, providing an up-to-date

overview of the subject with helpful detailed summaries of the technical literature. Water and Energy has been up-dated throughout and major changes are: new chapters on global warming and fossil fuels, including shale gas and fracking; the consequences of the Deepwater Horizon accident in the Mexican Gulf and the Niger Delta oil spills; new developments in hydropower; and continued competition between food, water and energy. Water and Energy Threats and Opportunities, 2e creates an awareness of the important couplings between water and energy. It shows how energy is used in all the various water cycle operations and demonstrates how water is used and misused in all kinds of energy production and generation. Population increase, climate change and an increasing competition between food and fuel production create enormous pressures on both water and energy availability. Since there is no replacement for water, water security looks more crucial than energy security. This is true not only in developing countries but also in the most advanced countries. For example, the western parts of the USA suffer from water scarcity that provides a real security threat. Part One of the book describes the water-energy nexus, the conflicts and competitions and the couplings between water security, energy security, and food security. Part Two captures how climate change, population increase and the growing food demand will have major impact on water availability in many countries in the world. Part Three describes water for energy and how energy production and conversion depend on water availability. As a consequence, all planning has to take both water and energy into consideration. The environmental (including water) consequences of oil and coal exploration and refining are huge, in North America as well as in the rest of the world. Furthermore, oil leak accidents have hit America, Africa, Europe as well as Asia. The consequences of hydropower are discussed and the competition between hydropower generation, flood control and water storage is illustrated. The importance of water for cooling thermal power plants is described, as this was so tragically demonstrated at the Fukushima nuclear plants in 2011. Climate change will further emphasize the strong coupling between water availability and the operation of power plants. Part Four analyses

energy for water - how water production and treatment depend on energy. The book shows that a lot can be done to improve equipment, develop processes and apply advanced monitoring and control to save energy for water operations. Significant amounts of energy can be saved by better pumping, the reduction of leakages, controlled aeration in biological wastewater treatment, more efficient biogas production, and by improved desalination processes. There are 3 PowerPoint presentations available for Water and Energy - threats and opportunities, 2e. About the author Gustaf Olsson, Professor Em. in Industrial Automation, Lund University, Sweden Since 2006, Gustaf has been Professor Emeritus at Lund University, Sweden. Gustaf has devoted his research to control and automation in water systems, electrical power systems and process industries. From 2006 to 2008 he was part time professor in electrical power systems at Chalmers University of Technology, Sweden. He is guest professor at the Technical University of Malaysia (UTM) and at the Tsinghua University in Beijing, China and he is an honorary faculty member of the Exeter University in UK. Between 2005 and 2010 he was the editor-in-chief of the journals Water Science and Technology and Water Science and Technology/Water Supply, (IWA Publishing). From 2007 to 2010, he was a member of the IWA Board of Directors and in 2010 he received the IWA Publication Award. In 2012 he was the awardee of an Honorary Doctor degree at UTM and an Honorary Membership of IWA. Gustaf has guided 23 PhDs and a few hundred MSc students through their exams and has received the Lund University pedagogical award for distinguished achievements in the education". The Lund University engineering students elected him as the teacher of the year He has spent extended periods as a guest professor and visiting researcher at universities and companies in the USA, Australia and Japan and has been invited as a guest lecturer in 19 countries outside Sweden. He has authored nine books published in English, Russian, German and Chinese and contributed with chapters in another 19 books as well as more than 170 scientific publications.

Transitions to Alternative Vehicles and Fuels National Research Council
2013-04-14 For a century, almost all light-duty vehicles (LDVs) have been

powered by internal combustion engines operating on petroleum fuels. Energy security concerns about petroleum imports and the effect of greenhouse gas (GHG) emissions on global climate are driving interest in alternatives. *Transitions to Alternative Vehicles and Fuels* assesses the potential for reducing petroleum consumption and GHG emissions by 80 percent across the U.S. LDV fleet by 2050, relative to 2005. This report examines the current capability and estimated future performance and costs for each vehicle type and non-petroleum-based fuel technology as options that could significantly contribute to these goals. By analyzing scenarios that combine various fuel and vehicle pathways, the report also identifies barriers to implementation of these technologies and suggests policies to achieve the desired reductions. Several scenarios are promising, but strong, and effective policies such as research and development, subsidies, energy taxes, or regulations will be necessary to overcome barriers, such as cost and consumer choice.

Hidden Costs of Energy National Research Council 2010-05-26 Despite the many benefits of energy, most of which are reflected in energy market prices, the production, distribution, and use of energy causes negative effects. Many of these negative effects are not reflected in energy market prices. When market failures like this occur, there may be a case for government interventions in the form of regulations, taxes, fees, tradable permits, or other instruments that will motivate recognition of these external or hidden costs. The *Hidden Costs of Energy* defines and evaluates key external costs and benefits that are associated with the production, distribution, and use of energy, but are not reflected in market prices. The damage estimates presented are substantial and reflect damages from air pollution associated with electricity generation, motor vehicle transportation, and heat generation. The book also considers other effects not quantified in dollar amounts, such as damages from climate change, effects of some air pollutants such as mercury, and risks to national security. While not a comprehensive guide to policy, this analysis indicates that major initiatives to further reduce other emissions, improve energy efficiency, or shift to a cleaner electricity generating mix could substantially reduce the damages of

external effects. A first step in minimizing the adverse consequences of new energy technologies is to better understand these external effects and damages. The *Hidden Costs of Energy* will therefore be a vital informational tool for government policy makers, scientists, and economists in even the earliest stages of research and development on energy technologies.

Energy Follies Robert R. Nordhaus 2018-09-20 examines principal energy policy decisions and their lingering effects, by recounting the historical context surrounding the interplay of law, markets, and technology.

American Business Regulation William Lesser 2015-03-26 While there are lengthy texts discussing the economics of why and how governments regulate business and apply antitrust, this book is unique in providing the details of current business regulation in many industries through lengthy examples the author develops with the use of cases, including Harvard Business School cases. Students are then guided to devise business strategies of introducing new products within the scope of regulation (known or unknown). While the economic theories of regulation are covered, the focus of this text is a "hands-on coping" with regulation and using regulation as a business strategy to deal with competitors. Online instructor's materials are also available for adopters. *Energy Security, Equality and Justice* Benjamin K. Sovacool 2013-12-04 This book applies concepts from ethics, justice, and political philosophy to five sets of contemporary energy problems cutting across time, economics, politics, geography, and technology. In doing so, the authors derive two key energy justice principles from modern theories of distributive justice, procedural justice, and cosmopolitan justice. The prohibitive principle states that "energy systems must be designed and constructed in such a way that they do not unduly interfere with the ability of people to acquire those basic goods to which they are justly entitled." The affirmative principle states that "if any of the basic goods to which people are justly entitled can only be secured by means of energy services, then in that case there is also a derivative entitlement to the energy services." In laying out and employing these principles, the

book details a long list of current energy injustices ranging from human rights abuses and energy-related civil conflict to energy poverty and pervasive and growing negative externalities. The book illustrates the significance of energy justice by combining the most up-to-date data on global energy security and climate change, including case studies and examples from the electricity supply, transport, and heating and cooking sectors, with appraisals based on centuries of thought about the meaning of justice in social decisions.

A Framework for Assessing Effects of the Food System National Research Council 2015-06-17 How we produce and consume food has a bigger impact on Americans' well-being than any other human activity. The food industry is the largest sector of our economy; food touches everything from our health to the environment, climate change, economic inequality, and the federal budget. From the earliest developments of agriculture, a major goal has been to attain sufficient foods that provide the energy and the nutrients needed for a healthy, active life. Over time, food production, processing, marketing, and consumption have evolved and become highly complex. The challenges of improving the food system in the 21st century will require systemic approaches that take full account of social, economic, ecological, and evolutionary factors. Policy or business interventions involving a segment of the food system often have consequences beyond the original issue the intervention was meant to address. *A Framework for Assessing Effects of the Food System* develops an analytical framework for assessing effects associated with the ways in which food is grown, processed, distributed, marketed, retailed, and consumed in the United States. The framework will allow users to recognize effects across the full food system, consider all domains and dimensions of effects, account for systems dynamics and complexities, and choose appropriate methods for analysis. This report provides example applications of the framework based on complex questions that are currently under debate: consumption of a healthy and safe diet, food security, animal welfare, and preserving the environment and its resources. *A Framework for Assessing Effects of the Food System* describes the U.S. food system and provides a brief history of its

evolution into the current system. This report identifies some of the real and potential implications of the current system in terms of its health, environmental, and socioeconomic effects along with a sense for the complexities of the system, potential metrics, and some of the data needs that are required to assess the effects. The overview of the food system and the framework described in this report will be an essential resource for decision makers, researchers, and others to examine the possible impacts of alternative policies or agricultural or food processing practices.

Introduction to Modern Climate Change Andrew Dessler 2016 The thoroughly updated second edition of an invaluable textbook for any introductory survey course on the science and policy of climate change.

Handbook on the Economics of Climate Change Graciela Chichilnisky 2020-06-26 This timely Handbook recognises the emergence of climate change as the defining topic of our time. With public climate discourse growing more urgent every year, this Handbook brings together international experts from different economic disciplines to answer critical climate policy questions.

Limiting the Magnitude of Future Climate Change National Research Council 2011-01-06 Climate change, driven by the increasing concentration of greenhouse gases in the atmosphere, poses serious, wide-ranging threats to human societies and natural ecosystems around the world. The largest overall source of greenhouse gas emissions is the burning of fossil fuels. The global atmospheric concentration of carbon dioxide, the dominant greenhouse gas of concern, is increasing by roughly two parts per million per year, and the United States is currently the second-largest contributor to global emissions behind China. *Limiting the Magnitude of Future Climate Change*, part of the congressionally requested America's Climate Choices suite of studies, focuses on the role of the United States in the global effort to reduce greenhouse gas emissions. The book concludes that in order to ensure that all levels of government, the private sector, and millions of households and individuals are contributing to shared national goals, the United States should establish a "budget" that sets a limit on total domestic

greenhouse emissions from 2010-2050. Meeting such a budget would require a major departure from business as usual in the way the nation produces and uses energy-and that the nation act now to aggressively deploy all available energy efficiencies and less carbon-intensive technologies and to develop new ones. With no financial incentives or regulatory pressure, the nation will continue to rely upon and "lock in" carbon-intensive technologies and systems unless a carbon pricing system is established-either cap-and-trade, a system of taxing emissions, or a combination of the two. Complementary policies are also needed to accelerate progress in key areas: developing more efficient, less carbon-intensive energy sources in electricity and transportation; advancing full-scale development of new-generation nuclear power, carbon capture, and storage systems; and amending emissions-intensive energy infrastructure. Research and development of new technologies that could help reduce emissions more cost effectively than current options is also strongly recommended.

Hidden Costs of Energy 2009

The Clean Energy Transition Daniel J. Fiorino 2022-09-12 Is the goal of a transition to clean energy at all realistic? If so, how could it be accomplished? Climate change poses a formidable challenge for twenty-first-century governments. Unless they can move to a clean energy system built on efficiency, renewables, electrification, and possibly complementary technologies like nuclear energy and carbon capture and storage, it will be all but impossible to avoid the worst impacts of climate change. In this book, Daniel Fiorino provides a comprehensive introduction to the politics and policies of a clean energy transition and how it may unfold nationally and globally. Across its nine chapters, he explores the current energy landscape and the different pathways and pitfalls on the road to decarbonization. All scenarios for decarbonizing, he argues, rely on aggressive efficiency, the rapid scale-up of renewables, and the electrification of most of what is left. Yet this transition has to be accelerated and done effectively. There is little time left for second chances if we are to decarbonize later this century. The Clean Energy Transition will be an indispensable resource for students of

energy politics, environmental studies, and public policy, as well as anyone interested in the energy issues of the day.

Principles of Sustainable Energy Systems, Third Edition Charles F. Kutscher 2018-08-06 PRINCIPLES OF SUSTAINABLE ENERGY SYSTEMS, Third Edition, surveys the range of sustainable energy sources and the tools that engineers, scientists, managers, and policy makers use to analyze energy generation, usage, and future trends. The text provides complete and up-to-date coverage of all renewable technologies, including solar and wind power, biofuels, hydroelectric, nuclear, ocean power, and geothermal energy. The economics of energy are introduced, with the SAM software package integrated so students can explore the dynamics of energy usage and prediction. Climate and environmental factors in energy use are integrated to give a complete picture of sustainable energy analysis and planning.

OECD Green Growth Studies Energy OECD 2012-01-16 This report looks at the role of the energy sector in moving towards a green growth model and the policies to facilitate the transition.

Green Energy Economies John Byrne 2017-09-08 Green Energy Economies offers insight into the major drivers that are shaping a new future powered by clean energy sources. Assembling cutting-edge researchers as contributors, the book provides a comprehensive account of the shift underway, examining in detail the complexities and intricacies involved with such a transition. The book first details the promises and problems of a green energy transition. Next, it explores the economic benefits that a comprehensive strategy toward a green energy economy might create. Then it investigates how communities will be affected and explores the social, cultural, and other changes that are likely to result. Finally, it explores the shift toward new technologies in-depth. Green Energy Economies concludes with policy options that support a transition to a better energy, environmental, and economic future. The contributors argue that a green energy economy offers great promise, but its realization will require making hard choices, and soon. They argue for investments in renewable energy and economic systems that can deliver a sustainable and equitable future. This book makes a

forceful case for a green future.

Global Energy Assessment Thomas B. Johansson 2012-08-27

Independent, scientifically based, integrated, policy-relevant analysis of current and emerging energy issues for specialists and policymakers in academia, industry, government.

Environmental Impacts of Wind-Energy Projects National Research Council 2007-08-27 The generation of electricity by wind energy has the potential to reduce environmental impacts caused by the use of fossil fuels. Although the use of wind energy to generate electricity is increasing rapidly in the United States, government guidance to help communities and developers evaluate and plan proposed wind-energy projects is lacking. Environmental Impacts of Wind-Energy Projects offers an analysis of the environmental benefits and drawbacks of wind energy, along with an evaluation guide to aid decision-making about projects. It includes a case study of the mid-Atlantic highlands, a mountainous area that spans parts of West Virginia, Virginia, Maryland, and Pennsylvania. This book will inform policy makers at the federal, state, and local levels.

Modular Systems for Energy and Fuel Recovery and Conversion

Yatish T. Shah 2019-06-28 Modular Systems for Energy and Fuel Recovery and Conversion surveys the benefits of the modular approach in the front end of the energy industry. The book also outlines strategies for managing modular approaches for fossil, renewable, and nuclear energy resource recovery and conversion with the help of successful industrial examples. The book points out that while the modular approach is most applicable for distributed and small-scale energy systems, it is also often used for parts of large-scale centralized systems. With the help of successful industrial examples of modular approaches for energy and fuel recovery and conversion, the book points out the need for more balance between large-scale centralized systems and small-scale distributed systems to serve the energy needs of rural and isolated communities. Coal, oil, natural gas, hydrogen, biomass, waste, nuclear, geothermal solar, wind, and hydro energy are examined, showing that modular operations are very successfully used in all these

components of the energy industry. Aimed at academic researchers and industry professionals, this book provides successful examples and analysis of the modular operation for energy and fuel recovery and conversion. It is also a reference for those who are engaged in the development of modular systems for energy and fuel recovery and conversion.

An Examination of DOE's Clean Technology Programs United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Energy and Environment 2011

Environmental Engineering for the 21st Century National Academies of Sciences, Engineering, and Medicine 2019-03-08 Environmental engineers support the well-being of people and the planet in areas where the two intersect. Over the decades the field has improved countless lives through innovative systems for delivering water, treating waste, and preventing and remediating pollution in air, water, and soil. These achievements are a testament to the multidisciplinary, pragmatic, systems-oriented approach that characterizes environmental engineering. Environmental Engineering for the 21st Century: Addressing Grand Challenges outlines the crucial role for environmental engineers in this period of dramatic growth and change. The report identifies five pressing challenges of the 21st century that environmental engineers are uniquely poised to help advance: sustainably supply food, water, and energy; curb climate change and adapt to its impacts; design a future without pollution and waste; create efficient, healthy, resilient cities; and foster informed decisions and actions.

The Doomsday Machine Martin Cohen 2012-03-27 Today, there are over one hundred nuclear reactors operating in our backyards, from Indian Point in New York to Diablo Canyon in California. Proponents claim that nuclear power is the only viable alternative to fossil fuels, and due to rising energy consumption and the looming threat of global warming, they are pushing for an even greater investment. Here, energy economist Andrew McKillop and social scientist Martin Cohen argue that the nuclear power dream being sold to us is pure fantasy. Debunking the

multilayered myth that nuclear energy is cheap, clean, and safe, they demonstrate how landscapes are ravaged in search of the elusive yellowcake to fuel the reactors, and how energy companies and politicians rarely discuss the true costs of nuclear power plants - from the subsidies that build the infrastructure to the unspoken guarantee that the public will pick up the cleanup cost in the event of a meltdown, which can easily top \$100 billion dollars.

Data for a Greener World Mr. Serkan Arslanalp 2023-04-04 The book presents a structured discussion of measuring the key economic and financial dimensions of climate change. It combines economic theory and analysis with real world examples of how climate data can be constructed for different country settings, based on existing climate science and economic data. The book will serve as a reference point for the IMF's Climate Change Indicators Dashboard (CID). A guiding principle of the book is that there are important climate data gaps, but also practical and innovative approaches to close many of them. The book discusses how to track greenhouse gas emissions by production and consumption (Chapters 1-2), which lead to physical risks (Chapters 3-4) and transition risks (Chapters 5-7) and conclude with cross-border dimensions of climate risks (Chapters 8-9).

Environmental Health Howard Frumkin 2016-02-29 The bestselling environmental health text, with all new coverage of key topics Environmental Health: From Global to Local is a comprehensive introduction to the subject, and a contemporary, authoritative text for students of public health, environmental health, preventive medicine, community health, and environmental studies. Edited by the former director of the CDC's National Center for Environmental Health and current dean of the School of Public Health at the University of Washington, this book provides a multi-faceted view of the topic, and how it affects different regions, populations, and professions. In addition to traditional environmental health topics—air, water, chemical toxins, radiation, pest control—it offers remarkably broad, cross-cutting coverage, including such topics as building design, urban and regional planning, energy, transportation, disaster preparedness and response,

climate change, and environmental psychology. This new third edition maintains its strong grounding in evidence, and has been revised for greater readability, with new coverage of ecology, sustainability, and vulnerable populations, with integrated coverage of policy issues, and with a more global focus. Environmental health is a critically important topic, and it reaches into fields as diverse as communications, technology, regulatory policy, medicine, and law. This book is a well-rounded guide that addresses the field's most pressing concerns, with a practical bent that takes the material beyond theory. Explore the cross-discipline manifestations of environmental health Understand the global ramifications of population and climate change Learn how environmental issues affect health and well-being closer to home Discover how different fields incorporate environmental health perspectives The first law of ecology reminds is that 'everything is connected to everything else.' Each piece of the system affects the whole, and the whole must sustain us all for the long term. Environmental Health lays out the facts, makes the connections, and demonstrates the importance of these crucial issues to human health and well-being, both on a global scale, and in our homes, workplaces, and neighborhoods.

An Unworthy Future Joseph Toomey 2014-07-22 It is difficult to find an area of public policy more plagued by misunderstanding than energy policy. Even worse, every time the subject is raised, we are obligated to get mired in pointless arguments about the weather. This book helps set the record straight. Not convinced? Consider some of these inconvenient truths: The cost of green energy climate remediation is anywhere from 10-to-1,000 times greater than the damage from the climate change it attempts to alleviate. Germany, the worlds leader in solar energy, will spend more than \$280 billion by 2030 on solar subsidies. But all of that investment will only forestall 22nd century global warming by 37 hours. Obamas carbon tax would cost Americans \$1.2 trillion over just ten years. But it would only reduce the midrange 3 degree modeled 22nd century global temperature increase by 0.038 degrees Celsius. At their current emissions growth rate, it will take China nine months to replace the entire U.S. emissions cut that Obama wants to achieve over seven

years, at a staggering cost in American jobs and lost economic growth. The U.S. biofuel program imposes a cost on consumers 9,862 times greater than any climate benefit they or their distant progeny will ever derive. This is not another skeptical global warming polemic but an economic evaluation of how and why green energy will fail. The world has too many pressing needs. For the money Obama squandered on just a single bankrupt crony solar company, the U.S. could have prevented 300,000 childhood malaria deaths in poor countries. A thoroughly researched, heavily documented book by an expert in his field, it will demonstrate in meticulous detail how wasteful and economically inefficient Obamas green energy dead end future will be compared to other worthy alternatives. Its time to end the hysterical climate cynicism and get on humanity's side.

Green Savings Marilyn A. Brown 2015-09-29 This landmark work lauds the benefits of decreased energy consumption, investigating its relationship to public policy and analyzing its potential billion-dollar benefits to the U.S. economy. U.S. consumers tend to use energy indiscriminately—something they may no longer be able to do with impunity. This game-changing book asserts that reducing energy consumption should be a frontline strategy to address global climate change, threats to energy security, and the challenge of grid reliability. The book supports two bold arguments: that policies motivating greater investment in high energy efficiency should be a priority, and that energy efficiency can help the nation in times of crisis. To make their case for the necessity of prioritizing demand reduction, the authors examine the policies and markets operating in a number of leading cities, states, and nations across the globe to uncover the keys to their success. These examples show how demand-side strategies can significantly reduce pollution, cut costs, and make the electric grid more resilient. The authors explain why these technologies are not widely adopted and assess the potential savings they can produce. The book will be an eye-opener for policymakers, energy professionals, and the public as it demonstrates how cost-effective demand reduction policies can improve air quality, strengthen electricity markets, and generate jobs.

Interdisciplinary Research on Climate and Energy Decision

Making M. Granger Morgan 2022-12-16 This book explores the role and importance of interdisciplinary research in addressing key issues in climate and energy decision making. For over 30 years, an interdisciplinary team of faculty and students anchored at Carnegie Mellon University, joined by investigators and students from a number of other collaborating institutions across North America, Europe, and Australia, have worked together to better understand the global changes that are being caused by both human activities and natural causes. This book tells the story of their successful interdisciplinary work. With each chapter written in the first person, the authors have three key objectives: (1) to document and provide an accessible account of how they have framed and addressed a range of the key problems that are posed by the human dimensions of global change; (2) to illustrate how investigators and graduate students have worked together productively across different disciplines and locations on common problems; and (3) to encourage funders and scholars across the world to undertake similar large-scale interdisciplinary research activities to meet the world's largest challenges. Exploring topics such as energy efficiency, public health, and climate adaptation, and with a final chapter dedicated to lessons learned, this innovative volume will be of great interest to students and scholars of climate change, energy transitions and environmental studies more broadly.

Ending Dirty Energy Policy Joseph P. Tomain 2011-06-20 Climate change presents the United States, and the world, with regulatory problems of a magnitude, complexity and scope unseen before. The United States, however, particularly after the mid-term elections of 2010, lacks the political will necessary to aggressively address climate change. Most current books focus on climate change. Ending Dirty Energy Policy argues that the US will not adequately address climate change until it transforms its fossil fuel energy policy. Yet there are signs that the country will support the transformation of its century-old energy policy from one that is dependent on fossil fuels to a low-carbon energy portfolio. A transformative energy policy that favors energy efficiency

and renewable resources can occur only after the US has abandoned the traditional fossil fuel energy policy, has redesigned regulatory systems to open new markets and promoted competition among new energy providers, and has stimulated private-sector commercial and venture capital investment in energy innovations that can be brought to commercial scale and marketability.

US Energy Tax Policy Gilbert E. Metcalf 2010-12-06 The United States face enormous challenges in the energy area. Climate change, biofuels policy, energy security and environmental degradation are all intimately bound up with energy production and consumption. Historically, the federal government has relied on tax subsidies to effect energy policy. With mounting federal deficits, policymakers and advocates are increasingly calling for a rethinking of our energy tax policy. How can the federal tax code strengthen environmental policy and reduce security concerns in the area of energy? The authors tackle such difficult problems as climate change, efficient taxation of oil and gas, and optimal oil tax policy in a world with OPEC oil producers dominating world oil supply. This volume presents a number of innovative policy suggestions backed by sophisticated and cutting-edge research carried out by leading scholars in the area of energy taxation.

The Political Economy of Electricity Mark Cooper 2017-04-24 Providing critical insights that will interest readers ranging from economists to environmentalists, policymakers, and politicians, this book analyzes the economics and technology trends involved in the dilemma of decarbonization and addresses why aggressive policy is required in a capitalist political economy to create a sea change away from fossil fuels. The environmental damage across the globe is a result of the success of capitalist industrialism—250 years of carbon pollution resulting from consumption of fossil fuels to drive the economy and the worldwide aspiration to ever-increasing levels of economic development. But capitalism has also produced the tools to solve the problems it has created in the form of a technological revolution in low-carbon renewables, distributed resources, and intelligent systems to integrate supply and demand. This book comprehensively examines the political

economy of electricity and analyzes the challenge of transforming today's electricity sector to meet the dual goals of decarbonization and development expressed in the Paris Agreement. Author Mark Cooper defines the dilemma of development and decarbonization as the great challenge facing the electricity industry and documents how the economic resources costs of a 100 percent-renewable portfolio has declined to the point that decarbonization can pay for itself, making the low-carbon renewable technologies that enable desired environmental and public-health benefits an easy sell. He identifies the substantial benefit of increasing use of information, communications, and advanced control technologies; shows how targeted innovation could speed the transition by a decade or two and lower the overall cost of the transition by as much as half; and explains why the flexible, multi-stakeholder approach of the Paris Agreement is the correct approach.

Handbook of Energy Cutler J. Cleveland 2013-05-02 Handbook of Energy, Volume I: Diagrams, Charts, and Tables provides comprehensive, organized coverage on all phases of energy and its role in society, including its social, economic, political, historical, and environmental aspects. While there is a wealth of information about energy available, it is spread across many books, journals, and websites and it tends to target either a particular form of energy or a specific audience. Handbook of Energy provides a central repository of information that meets diverse user communities. It focuses on visual, graphic, and tabular information in a schematic format. Individuals and researchers at all educational levels will find the Handbook of Energy to be a valuable addition to their personal libraries. - Easy-to-read technical diagrams and tables display a vast array of data and concepts

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Reinventing Fire Amory Lovins 2013-10 Oil and coal have built our civilisation, created our wealth and enriched the lives of billions. Yet their rising costs to our security, economy, health and environment are starting to outweigh their benefits. Moreover, the tipping point where alternatives work better and compete purely on cost is not decades in the future - it is here and now. And that tipping point has become the

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