

Cogeneration and Decentralized Electricity Production

Technology, Economics, and Policy

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Electricity Generation Policy Technology Economics

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Electricity Generation Policy Technology Economics:

The Economics and Policy of Concentrating Solar Power Generation Pere Mir-Artigues, Pablo del Río, Natàlia Caldés, 2019-05-31 This book provides an up to date analysis of state of the art concentrating solar power CSP generation It focuses on the economic analysis of CSP generation technologies as well as the policies that have been and are being used around the globe to support it The book describes the industrial sectors whose products make up the solar field including the traditional manufacturers of turbines and generators The authors provide the main theoretical tools needed to comprehend the costs of CSP technologies compared to other competing technologies both conventional and renewable and discuss the conceptual rationale behind creating public support for these technologies and the costs of various promotional techniques Further the book examines the concepts from different disciplinary traditions in economics including environmental innovation industrial and public which are then combined and integrated for an analysis of the costs and policies of CSP electricity Addressing the main findings and the challenges for future CSP the book is a valuable resource for researchers and practitioners It is also of use to industrial engineers as it identifies the features of the sector s supply chain value rooted in and supported by an industrial economics approach *Renewable Electricity - Generation Technologies* Great Britain: Parliament: House of Commons: Innovation, Universities, Science and Skills Committee, 2008 The European Union s EU common Energy Policy commits the EU to generating 20 per cent of total energy consumption from renewables by 2020 The European Commission proposed national renewable energy targets for each Member State and it was suggested that 15 per cent of UK energy be derived from renewables by 2020 **Technology Options for Electricity Generation** Hadi Dowlatabadi, Michael A. Toman, 2016-03-22 Environmental constraints and market uncertainties create new challenges for electricity generation In this title originally published in 1991 the authors present a simulation model with a capability for highly detailed activity to identify cost minimising investment options under different assumptions about demand costs regulation and other economic and environmental factors Applying the model to two U S regions having sharply different electricity demand and supply characteristics they identify the importance of advanced technologies and augmented electricity trade among regions This title is ideal for students interested in environmental studies [Energy Abstracts for Policy Analysis](#) ,1988 [Hybrid Technologies for Power Generation](#) Massimiliano Lo Faro, Orazio Barbera, Giosue Giacoppo, 2021-10-30 Hybrid Technologies for Power Generation addresses the topics related to hybrid technologies by coupling conventional thermal engines with novel technologies including fuel cells batteries thermal storage and electrolysis and reporting on the most recent advances concerning transport and stationary applications Potential operating schemes of hybrid power generation systems are covered highlighting possible combinations of technology and guideline selection according to the energy demands of end users Going beyond state of the art technological developments for processes devices and systems this book discusses the environmental impact and existing hurdles of moving from a single device to new

approaches for efficient energy generation transfer conversion high density storage and consumption By describing the practical viability of novel devices coupled to conventional thermal devices this book has a decisive impact in energy system research supporting those in the energy research and engineering communities Covers detailed thermodynamic requirements for multiple smart technologies included in hybrid systems i e FC electrolyzers supercapacitors batteries thermal storage etc Features fundamental analysis and modeling to optimize the combination of smart technologies with traditional engines Details protocols for the analysis operation and requirements of large scale production

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

Wind Energy in the 21st Century R. Redlinger, P. Andersen, P. Morthorst, 2001-12-14 Wind energy is the great success story of modern renewable energy Since the industry s rebirth following the energy crisis of the 1970s thousands of wind energy projects have been installed around the world The technology today is competitive with traditional fossil fuelled electricity generation Wind Energy in the 21st Century explores the current economic financial technical environmental competitive and policy considerations facing the wind energy industry With discussions of the latest electricity industry trends including deregulation green markets and tradable renewable credits this book is a must read for energy policymakers researchers and energy industry professionals

A Development Perspective For Biomass-Fuelled Electricity Generation Technologies Roland Vincent Siemons, 2002

Cogeneration And Decentralized Electricity Production Michael D

Devine,2019-05-20 New federal and state laws providing tax credits and markets to independent producers of electricity have created widespread interest in the development of small dispersed power plants using cogeneration processes waste or renewable resources Recent legislation also promotes decentralized electricity production by allowing unregulated non util

The Economics of Climate Change Nicholas Herbert Stern,Great Britain. Treasury,2007-01-04 Independent rigorous and comprehensive analysis of the economic aspects of climate change *Energy Economics: CO2 Emissions in China* Yiming Wei,Lancui Liu,Gang Wu,Lele Zou,2011-05-25 Energy Economics CO2 Emissions in China presents a collection of the researches on China s CO2 emissions as studied by the Center for Energy Environmental Policy Research CEEP Based on the analysis of factors related to global climate change and CO2 emissions it discusses China s CO2 emissions originating from various sectors diverse impact factors as well as proposed policies for reducing carbon emissions Featuring empirical research and policy analysis on focused and critical issues involving different stages of CO2 emissions in China the book provides scientific supports for researchers and policy makers in dealing with global climate change *International Handbook on the Economics of Energy* Lester C. Hunt,Joanne Evans,2011-01-01 As an essential component for economic growth energy has a significant impact on the global economy The need to meet growing energy demand has prompted cutting edge innovation in clean technology in an attempt to realise environmental and cost objectives whilst ensuring the security of energy supply This Handbook offers a comprehensive review of the economics of energy including contributions from a distinguished array of international specialists It provides a thorough discussion of the major research issues in this topical field of economics Themes addressed include the theory of energy supply demand and policy empirical modelling of energy demand holistic energy models an analysis of coal gas electricity oil and the markets within which they operate and a discussion of the current key energy policy issues The topics of pricing transmission regulation security energy efficiency new technologies and climate change are also discussed The International Handbook on the Economics of Energy presents a comprehensive overview of the state of the art research making it an indispensable reference for researchers advanced students practitioners and policy makers alike *Wind Energy - The Facts* European Wind Energy Association,2012-05-04 Wind power is often held up as the most accessible and cost effective route to reducing our reliance on fossil fuels and improving our energy independence yet knowledge of what it offers is often clouded by myths and misunderstandings which can hamper its adoption This new book the result of an ambitious project coordinated by the European Wind Energy Association aims to present the facts about wind energy It includes six sections discussing technology grid integration economics of wind its industry and markets its environmental impacts the scenarios and targets for wind energy Contributions are drawn from nine leading research bodies across Europe and the material is global in its scope It is therefore an essential resource and reference for those whose work or study demands an in depth examination of the subject and for anyone who wants detailed accurate and up to date information on this key energy source **Modeling Economic**

Growth in Contemporary Malaysia Bruno S. Sergi, Abdul Rahman Jaaffar, 2021-02-12 This book considers crucial changes to Malaysian economic areas and social well being The chapters cover diverse industries such as IT green technology retailing banking tourism and hospitality education logistics finance banking and many others *Selected Papers from the 8th Annual Conference of Energy Economics and Management* Leixun Yang, Xinye Zheng, Zhan-Ming Chen, 2019-09-20 This collection represents successful invited submissions from the papers presented at the 8th Annual Conference of Energy Economics and Management held in Beijing China 22-24 September 2017 With over 500 participants the conference was co hosted by the Management Science Department of National Natural Science Foundation of China the Chinese Society of Energy Economics and Management and Renmin University of China on the subject area of Energy Transition of China Opportunities and Challenges The major strategies to transform the energy system of China to a sustainable model include energy economic structure adjustment resource conservation and technology innovation Accordingly the conference and its associated publications encourage research to address the major issues faced in supporting the energy transition of China Papers published in this collection cover the broad spectrum of energy economics issues including building energy efficiency industrial energy demand public policies to promote new energy technologies power system control technology emission reduction policies in energy intensive industries emission measurements of cities energy price movement and the impact of new energy vehicle Climate Crisis Economics Stuart P. M. Mackintosh, 2025-04-25 *Climate Crisis Economics A Race of Tipping Points* draws on economics political economy scientific literature and data to gauge the extent to which our various communities political economic and business are making the essential leap to a new narrative and policy approach that will accelerate us towards the necessary transition to a decarbonised economy and sustainable future Time is fast running out to avoid tipping points of no return warns Mackintosh The book draws out policies and practices with both national and local examples which demonstrate various complementary approaches that are empowering states and people as they seek to pursue the carbon neutral goal The author delineates a climate crisis economics approach that is fit for purpose and which can help achieve necessary climate change goals in the decades ahead This new 2nd edition has been thoroughly updated throughout including new material on the Biden administration and countries outside the United States and Europe new chapters on tipping point dangers and the need for a just transition It includes key questions for students and supplemental reading for each chapter Written in an accessible voice *Climate Crisis Economics A Race of Tipping Points* makes the case for a new model of climate crisis economics and new narratives to address the climate change dangers ahead It will appeal to academics students investors and professionals from varying disciplines including politics international political economy and international economics **The Power of Change** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Policy and Global Affairs, Board on Energy and Environmental Systems, Board on Science, Technology, and Economic Policy, Committee on Determinants of Market Adoption of Advanced Energy Efficiency and Clean

Energy Technologies,2016-08-30 Electricity supplied reliably and affordably is foundational to the U S economy and is utterly indispensable to modern society However emissions resulting from many forms of electricity generation create environmental risks that could have significant negative economic security and human health consequences Large scale installation of cleaner power generation has been generally hampered because greener technologies are more expensive than the technologies that currently produce most of our power Rather than trade affordability and reliability for low emissions is there a way to balance all three The Power of Change Innovation for Development and Deployment of Increasingly Clean Energy Technologies considers how to speed up innovations that would dramatically improve the performance and lower the cost of currently available technologies while also developing new advanced cleaner energy technologies According to this report there is an opportunity for the United States to continue to lead in the pursuit of increasingly clean more efficient electricity through innovation in advanced technologies The Power of Change Innovation for Development and Deployment of Increasingly Clean Energy Technologies makes the case that America s advantages world class universities and national laboratories a vibrant private sector and innovative states cities and regions that are free to experiment with a variety of public policy approaches position the United States to create and lead a new clean energy revolution This study focuses on five paths to accelerate the market adoption of increasing clean energy and efficiency technologies 1 expanding the portfolio of cleaner energy technology options 2 leveraging the advantages of energy efficiency 3 facilitating the development of increasing clean technologies including renewables nuclear and cleaner fossil 4 improving the existing technologies systems and infrastructure and 5 leveling the playing field for cleaner energy technologies The Power of Change Innovation for Development and Deployment of Increasingly Clean Energy Technologies is a call for leadership to transform the United States energy sector in order to both mitigate the risks of greenhouse gas and other pollutants and to spur future economic growth This study s focus on science technology and economic policy makes it a valuable resource to guide support that produces innovation to meet energy challenges now and for the future *Encyclopedia of Energy, Natural Resource, and Environmental Economics* ,2013-03-29 Every decision about energy involves its price and cost The price of gasoline and the cost of buying from foreign producers the price of nuclear and hydroelectricity and the costs to our ecosystems the price of electricity from coal fired plants and the cost to the atmosphere Giving life to inventions lifestyle changes geopolitical shifts and things in between energy economics is of high interest to Academia Corporations and Governments For economists energy economics is one of three subdisciplines which taken together compose an economic approach to the exploitation and preservation of natural resources energy economics which focuses on energy related subjects such as renewable energy hydropower nuclear power and the political economy of energy resource economics which covers subjects in land and water use such as mining fisheries agriculture and forests environmental economics which takes a broader view of natural resources through economic concepts such as risk valuation regulation and distribution Although the three are closely

related they are not often presented as an integrated whole This Encyclopedia has done just that by unifying these fields into a high quality and unique overview The only reference work that codifies the relationships among the three subdisciplines energy economics resource economics and environmental economics Understanding these relationships just became simpler Nobel Prize Winning Editor in Chief joint recipient 2007 Peace Prize Jason Shogren has demonstrated excellent team work again by coordinating and steering his Editorial Board to produce a cohesive work that guides the user seamlessly through the diverse topics This work contains in equal parts information from and about business academic and government perspectives and is intended to serve as a tool for unifying and systematizing research and analysis in business universities and government

Managing Climate Risk in the Global Economic System in the Post-COVID-19 Era Qiang Ji,2023-06-02 *Modeling the Economics of Greenhouse Gas Mitigation* National Research Council,Division on Engineering and Physical Sciences,2011-02-24 Models are fundamental for estimating the possible costs and effectiveness of different policies for reducing greenhouse gas GHG emissions There is a wide array of models to perform such analysis differing in the level of technological detail treatment of technological progress spatial and sector details and representation of the interaction of the energy sector to the overall economy and environment These differences impact model results including cost estimates More fundamentally these models differ as to how they represent fundamental processes that have a large impact on policy analysis such as how different models represent technological learning and cost reductions that come through increasing production volumes or how different models represent baseline conditions Reliable estimates of the costs and potential impacts on the United States economy of various emissions reduction and other mitigation strategies are critical to the development of the federal climate change research and development portfolio At the request of the U S Department of Energy DOE the National Academies organized a workshop summarized in this volume to consider some of these types of modeling issues

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