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The Role of the Electric Vehicle in the Energy Transition Angel Arcos-Vargas 2020-09-23 This book explores the part that electric vehicles can play in reducing carbon dioxide emissions. Further, it explains the impact of public support, technological advances, lower costs and better battery performance in making electric vehicles a viable alternative. The book begins by analyzing the

international context of electric vehicles and how they are being developed in different countries, and by offering a forecast of the electricity demand they may create. It then discusses technological innovations in electric vehicle recharging systems. The book is concerned not only with the economic potential of electric vehicles, but also with environmental aspects; consequently, it examines the raw materials supply chain and performs a lifecycle assessment. The book concludes with a chapter on alternative energies in transport, which may also help to facilitate the energy transition. Given its scope, the book offers a valuable resource for researchers, graduate students, policymakers and industry professionals interested in the energy transition and transport.

Wind and Solar Energy Transition in China Marius Korsnes 2019-09-25 This book explores the mobilisation of China's wind and solar industries and examines the implications of this development to energy generation and distribution, innovation and governance. Unlike other publications that focus mainly on the formal policy landscape and statistics of industry development, this book delves deeper into the ways in which the wind and solar industries have evolved through negotiations made by the involved stakeholders, and how these industries play into larger Chinese development and policymaking interests. Overall, it sheds new light on the strategic development of China's renewable energy industry, the flexible governance methods employed and the internal struggles which Chinese local, regional and central policymakers, and state-owned and private enterprises have faced. This book will be of great relevance to students and scholars of renewable energy technologies, energy policy and sustainability transitions, as well as policymakers with a specific interest in China.

Swiss Energy Governance Peter Hettich 2021-11-26 This open access book gathers the

results of an interdisciplinary research project led by the Swiss Competence Centers for Energy Research (SCCER CREST) and jointly implemented by several universities. It identifies political, economic and legal challenges and opportunities in the energy transition from a governance perspective by exploring a variety of tools that allow state, non-state and transnational actors to manage the transition of the energy industry toward less fossil-fuel reliance. When analyzing the roles of these actors, the authors examine not only formal procedures such as political and democratic processes, but also market behavior and societal practices. In other words, the handbook focuses on both the behavior and the positive and normative frameworks of political actors, bureaucracies, courts, international organizations, lobby groups, civil society, economic actors and individuals. The authors subsequently use their findings to formulate specific guidelines for lawmakers and other rule-makers, as well as private and public actors. To do so, they draw on approaches stemming from the legal, political and management sciences.

Energy Transition in the Baltic Sea Region Farid Karimi 2022-02-28 This book analyses the potential for active stakeholder engagement in the energy transition in the Baltic Sea Region (BSR) in order to foster clean energy deployment. Public acceptability and bottom-up activities can be critical for enduring outcomes to an energy transition. As a result, it is vital to understand how to unlock the potential for public, community and prosumer participation to facilitate renewable energy deployment and a clean energy transition – and, consequently, to examine the factors influencing social acceptability. Focussing on the diverse BSR, this book draws on expert contributions to consider a range of different topics, including the challenges of social acceptance and its policy implications; strategies to address challenges of acceptability among stakeholders; and

community engagement in clean energy production. Overall, the authors examine the practical implications of current policy measures and provide recommendations on how lessons learnt from this 'energy lab region' may be applied to other regions. Reflecting an interdisciplinary approach in the social sciences, this book is an essential resource for scholars, students and policymakers researching and working in the areas of renewable energy, energy policy and citizen engagement, and interested in understanding the potential for bottom-up, grassroots activities and social acceptability to expedite the energy transition and reanimate democracies.

Rural Electric Cooperatives in Transition John Neal Dalton 1997

Strategies to Address Transition Costs in the Electricity Industry 1996 Transition costs are the potential monetary losses that electric-utility shareholders, ratepayers, or other parties might experience because of structural changes in the electricity industry. Regulators, policy analysts, utilities, and consumer groups have proposed a number of strategies to address transition costs, such as immediately opening retail electricity markets or delaying retail competition. This report has 3 objectives: identify a wide range of strategies available to regulators and utilities; systematically examine effects of strategies; and identify potentially promising strategies that may provide benefits to more than one set of stakeholders. The many individual strategies are grouped into 6 major categories: market actions, depreciation options, rate-making actions, utility cost reductions, tax measures, and other options. Of the 34 individual strategies, retail ratepayers have primary or secondary responsibility for paying transition costs in 19 of the strategies, shareholders in 12, wheeling customers in 11, taxpayers in 8, and nonutility suppliers in 4. Most of the strategies shift costs among different segments of the economy, although

utility cost reductions can be used to offset transition costs. Most of the strategies require cooperation of other parties, including regulators, to be implemented successfully; financial stakeholders must be engages in negotiations that hold the promise of shared benefits. Only by rejecting ''winner-take-all'' strategies will the transition-cost issue be expeditiously resolved.

The Great Transition: Shifting from Fossil Fuels to Solar and Wind Energy Lester R. Brown 2015-04-20 The great energy transition from fossil fuels to renewable sources of energy is under way. As oil insecurity deepens, the extraction risks of fossil fuels rise, and concerns about climate instability cast a shadow over the future of coal, a new world energy economy is emerging. The old economy, fueled by oil, natural gas, and coal is being replaced with one powered by wind, solar, and geothermal energy. The Great Transition details the accelerating pace of this global energy revolution. As many countries become less enamored with coal and nuclear power, they are embracing an array of clean, renewable energies. Whereas solar energy projects were once small-scale, largely designed for residential use, energy investors are now building utility-scale solar projects. Strides are being made: some of the huge wind farm complexes under construction in China will each produce as much electricity as several nuclear power plants, and an electrified transport system supplemented by the use of bicycles could reshape the way we think about mobility.

Electric Mountains Shaun A. Golding 2021-07-16 Climate change has shifted from future menace to current event. As eco-conscious electricity consumers, we want to do our part in weening from fossil fuels, but what are we actually a part of? Committed environmentalists in one of North America’s most progressive regions desperately wanted energy policies that address the climate crisis. For many of them, wind turbines on

Northern New England's iconic ridgelines symbolize the energy transition that they have long hoped to see. For others, however, ridgeline wind takes on a very different meaning. When weighing its costs and benefits locally and globally, some wind opponents now see the graceful structures as symbols of corrupted energy politics. This book derives from several years of research to make sense of how wind turbines have so starkly split a community of environmentalists, as well as several communities. In doing so, it casts a critical light on the roadmap for energy transition that Northern New England's ridgeline wind projects demarcate. It outlines how ridgeline wind conforms to antiquated social structures propping up corporate energy interests, to the detriment of the swift de-carbonizing and equitable transformation that climate predictions warrant. It suggests, therefore, that the energy transition of which most of us are a part, is probably not the transition we would have designed ourselves, if we had been asked.

Challenges for an Electric Utility Industry in Transition Douglas C. Bauer 1987*

The Material Basis of Energy Transitions Alena Bleicher 2020-08-05 The Material Basis of Energy Transitions explores the intersection between critical raw material provision and the energy system. Chapters draw on examples and case studies involving energy technologies (e.g., electric power, transport) and raw material provision (e.g., mining, recycling), and consider these in their regional and global contexts. The book critically discusses issues such as the notion of criticality in the context of a circular economy, approaches for estimating the need for raw materials, certification schemes for raw materials, the role of consumers, and the impact of renewable energy development on resource conflicts. Each chapter deals with a specific issue that characterizes the interdependency between critical raw materials and renewable

energies by examining case studies from a particular conceptual perspective. The book is a resource for students and researchers from the social sciences, natural sciences, and engineering, as well as interdisciplinary scholars interested in the field of renewable energies, the circular economy, recycling, transport, and mining. The book is also of interest to policymakers in the fields of renewable energy, recycling, and mining, professionals from the energy and resource industries, as well as energy experts and consultants looking for an interdisciplinary assessment of critical materials. Provides a comprehensive overview of key issues related to the nexus between renewable energy and critical raw materials Explores interdisciplinary perspectives from the natural sciences, engineering, and social sciences Discusses critical strategies to address the nexus from a practitioner's perspective

The Regulation and Policy of Latin American Energy Transitions Lucas Guimaraes 2020-03 The Regulation and Policy of Latin American Energy Transitions examines the ongoing revolution within the energy landscape of Latin America. This book includes real-world examples from across the continent to demonstrate the current landscape of energy policy in Latin America. It focuses on distributed energy resources, including distributed generation, energy efficiency and microgrids, but also addresses the role of less common energy sources, such as geothermal and biogas, as well as discusses the changing role of energy actors, where consumers become prosumers or prosumagers, and utilities become service providers. The legal frameworks that are still hampering the transformation of the energy landscape are explored, together with an analysis of the economic, planning-related and social aspects of energy transitions, which can help address the issue of how inequalities are affecting and being affected by energy transitions. The book is suitable for policy

makers, lawyers, economists and social science professionals working with energy policy, as well as researchers and industry professionals in the field. It is an ideal source for anyone involved in energy policy and regulation across Latin America. Reviews key legal and policy features defining success and failure within the diverse Latin American energy transitions Provides clear descriptions and comparisons of current and potential future policy frameworks in Latin America across differing social, economic, geo-political and policy contexts Analyzes the potential role of new technologies and practices in developing the region's energy economy Poses key regulatory challenges and possible means to finance the envisioned transitions

The German Energy Transition Thomas Unnerstall 2017-05-26 The book presents a comprehensive and systematic account of the concept, the current status and the costs of the German energy transition: the Energiewende. Written by an insider who has been working in the German energy industry for over 20 years, it follows a strictly non-political, neutral approach and clearly outlines the most relevant facts and figures. In particular, it describes the main impacts of the Energiewende on the German power system and Germany’s national economy. Furthermore, it addresses questions that are of global interest with respect to energy transitions, such as the cost to the national economy, the financial burden on private households and companies and the actual effects on CO2 emissions. The book also discusses what could have been done better in terms of planning and implementing the Energiewende, and identifies important lessons for other countries that are considering a similar energy transition.

Outlook for the Electric Power Industry Arthur D. Little, Inc 1985

The Electric Industry in Transition New York State Energy Research and Development Authority 1994 A collection of papers presented

at a conference on June 14-15, 1994, in Albany NY.

Electricity Pricing in Transition Ahmad Faruqui 2012-12-06 Electricity Pricing In Transition is written to address the new issues facing utilities, retailers, regulators, and customers in the changing electricity market. It is organized into five sections. Section I deals with the new restructured organization that has emerged from yesterday's vertically integrated, regulated monopoly company. Section II deals with issues in competitive pricing. Section III reviews the role of demand response and product design in today's chaotic marketplace. Given the single importance of California's energy crisis and the fact that it will be studied for years to come, Section IV is devoted to studying the lessons learned from this crisis. The final section of the book deals with markets and regulations. This book will provide practitioners with guidance on how to avoid the major pitfalls in pricing electricity while the market is in transition by drawing upon the insights and lessons learned from the experience of others that are documented in this book.

Business Battles in the US Energy Sector Christian Downie 2019-01-17 This book is ground breaking in its study of business actors in climate and energy politics. While various studies have demonstrated the influence of business actors across multiple policy domains, this is the first to examine the behaviour of business actors in energy centric industries in the US that will be vital for achieving a clean energy transition, namely the oil, gas, coal, utility, and renewable industries. Drawing on almost 80 interviews with senior energy executives, lobbyists, and policymakers, it asks two central questions: (i) how and why are business actors shaping energy policy contests in the US? And (ii) what are the implications for policymakers? In answering these questions, this book provides new insights about the preferences and strategies of business in the

energy sector, and, significantly, it identifies strategies for policymakers seeking to regulate energy in the face of political resistance from incumbent fossil fuel industries. This book will be of particular value to students, scholars, and policymakers working in the fields of energy, climate, and environmental politics, as well as individuals generally interested in the role that business exerts over policy processes.

"Turmoil and Transition" : Electric Utility Industry Trends B.C. Hydro 1994

Global Energy Demand in Transition Behram N. Kursunogammalu 2013-06-29 The annual conferences on energy, which were begun in 1977, continued to 1992 and resumed again in 1994. The theme of the 1994 conference was "Global Energy Demand in Transition: The New Role ofElectricity. " Global energy production, distribution, and utilization is in astate of transition toward an increased and more diversified use of electricity, which is the safest, most versatile, and cleanest form of secondary energy. Electricity is easy to generate, transmit, and distribute, making its use practically universal. These facts make it urgent to explore the technological prospects and long term availability of environmentally benign energy sources for generating electricity. It is expected that the conference will be useful to the governments in formulating their energy policies and to the public utilities for their long term planning. The conference has: 1) assessed the increase and diversification in the use of electricity; 2) assessed the technological prospects for clean energy sources that still require more research and development, i. e. solar, hydrogen, nuclear (fission and fusion), etc. ; 3) assessed the roles of non-market factors and possible improved decision processes on energy and environmental issues; 4) made concrete recommendations regarding research and development policies and regulations to expedite the transition to a dependable, safer, and benign electricity-based energy complex; 5) studied the

cost impact: price, environment, safety, and international security; 6) provided an analysis of an expected transition from the fossil fuel transportation to electrical transportation (e. g.

Changing Structure of the Electric Power Industry: An Update Rebecca A. McNerney 1998-11 Intended for both lay & technical readers, this report serves as a basic reference tool that provides a comprehensive delineation of the electric power industry & its traditional structure, which has been based on its monopoly status. In addition, it describes the industry's transition to a competitive environment by providing a descriptive analysis of the factors that have contributed to the interest in a competitive market, proposed legislative & regulatory actions, & the steps being taken by the various components of the industry to meet the challenges of adapting to & prevailing in a competitive environment. Figures, tables, historical information.

South Africa's Energy Transition Tobias Bischof-Niemz 2018-07-11 South Africa's energy transition has become a highly topical, emotive and politically contentious topic. Taking a systems perspective, this book offers an evidence-based roadmap for such a transition and debunks many of the myths raised about the risks of a renewable-energy-led electricity mix. Owing to its formidable solar and wind resources, South Africa has an almost unparalleled opportunity to turn solar photovoltaic and onshore wind generators into the country's power generation workhorses – a role hitherto played by coal. This book shows that a renewables-led mix will not only provide the lowest cost, but will also create more jobs than any of the alternatives currently under consideration. In addition, it offers a glimpse of how South Africa's low-cost and decarbonised electricity system can power a competitive industrial economy, an electric-mobility revolution and, in the long run, create new export opportunities. This book will be of great

interest to energy industry practitioners, as well as students and scholars of energy policy and politics, environmental economics and sustainable development.

Renewables Michael Aklin 2018-03-23 A comprehensive political analysis of the rapid growth in renewable wind and solar power, mapping an energy transition through theory, case studies, and policy. Wind and solar are the most dynamic components of the global power sector. How did this happen? After the 1973 oil crisis, the limitations of an energy system based on fossil fuels created an urgent need to experiment with alternatives, and some pioneering governments reaped political gains by investing heavily in alternative energy such as wind or solar power. Public policy enabled growth over time, and economies of scale brought down costs dramatically. In this book, Michaël Aklin and Johannes Urpelainen offer a comprehensive political analysis of the rapid growth in renewable wind and solar power, mapping an energy transition through theory, case studies, and policy analysis. Aklin and Urpelainen argue that, because the fossil fuel energy system and political support for it are so entrenched, only an external shock—an abrupt rise in oil prices, or a nuclear power accident, for example—allows renewable energy to grow. They analyze the key factors that enable renewable energy to withstand political backlash, andt they draw on this analyisis to explain and predict the development of renewable energy in different countries over time. They examine the pioneering efforts in the United States, Germany, and Denmark after the 1973 oil crisis and other shocks; explain why the United States surrendered its leadership role in renewable energy; and trace the recent rapid growth of modern renewables in electricity generation, describing, among other things, the return of wind and solar to the United States. Finally, they apply the lessons of their analysis to contemporary energy policy issues.

Energy Technology Transitions for Industry International Energy Agency 2009 Industry accounts for one-third of global energy use and almost 40% of worldwide CO2 emissions. Achieving substantial emissions reduction in the future will require urgent action from industry. What are the likely future trends in energy use and CO2 emissions from industry? What impact could the application of best available technologies have on these trends? Which new technologies are needed if these sectors are to fully play their role in a more secure and sustainable energy future? Energy Technology Transitions for Industry looks at these questions through detailed sectoral and regional analyses, building on IEA findings, such as Energy Technology Perspectives 2008: Scenarios and Strategies to 2050. It contains new indicators and methodologies as well as scenario results for the following sectors: iron and steel, cement, chemicals, pulp and paper and aluminium sectors. The report discusses the prospects for new low-carbon technologies and outlines potential technology transition paths for the most important industrial sectors.

The Energy Switch Peter Kelly-Detwiler 2021 The Biggest Transition -- How Power Actually Works -- Most Volatile Commodity in the World -- The Control Room -- Go Figure -- From Con Ed -- The Sun Also -- When the Wind Blows -- Steel in the Water -- Charged and Ready -- The Gas Turbine -- Betting the Store -- Look Ma, No Gas -- Future Imperfect -- Navigating Towards the Future.

The Grand Energy Transition Robert A. Hefner, III 2009-09-08 A groundbreaking book on solving our growing energy problems In this visionary book, leading energy industry executive Robert Hefner puts forth a convincing case about how the world can move beyond its current dependence on oil and toward a new era of clean, renewable energy. Written with the knowledge and authority of a major player in this industry, Hefner relates how misguided

government policies and vested industry interests have contributed to our current energy problems and proposes a variety of measures that could encourage the use of natural gas, solar, wind, and hydrogen. Convincingly makes the case that natural gas is the essential bridge fuel to a new era of clean, renewable energy sources Details how natural gas can help break our oil and coal dependency Offers a sweeping, historic picture of the world energy situation Presents a compelling and provocative case that natural gas is key to our short-term energy problems A well-written and engaging book that mixes personal anecdotes and experiences with insightful analysis, The Grand Energy Transition is a powerful argument about how we can best solve our toughest energy problems.

Different Approaches to Estimating Transition Costs in the Electric- Utility Industry 1995 The term ''transition costs'' describes the potential revenue shortfall (or welfare loss) a utility (or other actor) may experience through government-initiated deregulation of electricity generation. The potential for transition costs arises whenever a regulated industry is subject to competitive market forces as a result of explicit government action. Federal and state proposals to deregulate electricity generation sparked a national debate on transition costs in the electric-utility industry. Industry-wide transition cost estimates range from about $20 billion to $500 billion. Such disparate estimates raise important questions on estimation methods for decision makers. This report examines different approaches to estimating transition costs. The study has three objectives. First, we discuss the concept of transition cost. Second, we identify the major cost categories included in transition cost estimates and summarize the current debate on which specific costs are appropriately included in these estimates. Finally, we identify general and specific estimation approaches and assess their strengths and weaknesses. We relied

primarily on the evidentiary records established at the Federal Energy Regulatory Commission and the California Public Utilities Commission to identify major cost categories and specific estimation approaches. We also contacted regulatory commission staffs in ten states to ascertain estimation activities in each of these states. We refined a classification framework to describe and assess general estimation options. We subsequently developed and applied criteria to describe and assess specific estimation approaches proposed by federal regulators, state regulators, utilities, independent power companies, and consultants.

Accelerating the Transition to a 100% Renewable Energy Era Tanay Sıdkı Uyar 2020-06-05 This book discusses renewable energy systems and applications, and demonstrates how an accelerated transition to 100% renewable energy can be achieved. It examines the systems from a thermodynamic perspective, focusing on the irreversible aspects of the current energy system and highlighting the solutions developed to date. Presenting global research and developments, this book is intended for those working within the field of renewable energy research and policy who are interested in learning how they can contribute to the transition from fossil fuels to renewable resources.

Energy Utilities Ruth K. Kretschmer 1985

Different Approaches to Estimating Transition Costs in the Electric-utility Industry Lester W. Baxter 1995

America's Electric Utilities Scott Fenn 1984

The Geopolitics of the Global Energy Transition Manfred Hafner 2020-06-09 The world is currently undergoing an historic energy transition, driven by increasingly stringent decarbonisation policies and rapid advances in low-carbon technologies. The large-scale shift to low-carbon energy is disrupting the global energy system, impacting whole economies, and changing the political dynamics within and

between countries. This open access book, written by leading energy scholars, examines the economic and geopolitical implications of the global energy transition, from both regional and thematic perspectives. The first part of the book addresses the geopolitical implications in the world's main energy-producing and energy-consuming regions, while the second presents in-depth case studies on selected issues, ranging from the geopolitics of renewable energy, to the mineral foundations of the global energy transformation, to governance issues in connection with the changing global energy order. Given its scope, the book will appeal to researchers in energy, climate change and international relations, as well as to professionals working in the energy industry.

The Electric Utility Industry Restructuring Transition Advisory Committee Montana. Legislative Services Division 1998

Political Economy and Price Ration Changes Mary E. Reidy 2001

European Electricity Systems in Transition A. Midttun 1997-02-17 The electricity generation and supply industry is undergoing rapid changes in the 1990s. As demands for economic power continue to increase, governments throughout Europe are contemplating a reformation of electricity policy for the 21st century. This book discusses the current state of the European electricity generation and supply industry and the options for improvement in the future. Written by renowned experts in the field of energy policy and economics, the book includes detailed case studies of national electricity regulation from around Europe, and a timely overview of European Union electricity policy on liberalisation and deregulation. Given that the changes to the European electricity industries will provide valuable pointers to change in other areas, this book is essential reading for industry analysts, policy makers, utility companies and others with an interest in the future of energy generation and transmission worldwide.

Restructuring the Electric Power Industry John F. Weidmayer 1998

Green Innovation in China Joanna I. Lewis 2013 Just a decade ago, China maintained only a handful of operating wind turbines -- all imported from Europe and the United States.

Transition Costs in the Electricity Industry 1996 Progress is evident as the restructuring debate in the U.S. electricity industry completes its third year. The Federal Energy Regulatory Commission released a final rule on transmission open access-a key element to facilitate more efficient wholesale markets. The majority of states have initiated investigations or discussions on restructuring retail markets. Yet hurdles remain in formulating and implementing state-level restructuring proposals. Perhaps foremost among these hurdles is the issue of transition costs (the potential monetary losses experienced by utilities, consumers, and other economic actors as a result of government initiatives to transform electricity generation from a regulated to a competitive market). Transition costs are approximately equal to the difference between the embedded cost for generation services under traditional cost-of-service regulation and the competitive-market price for power. When government takes action to open current monopoly franchises to multiple generation providers and the competitive-market price falls below embedded generation costs, then transition costs will arise. Transition costs will include one or more of the following four classes of costs: (1) assets, primarily utility-owned power plants; (2) liabilities, primarily long-term power-purchase and fuel-supply contracts; (3) regulatory assets, including deferred expenses and costs that regulators allow utilities to place on their balance sheets; and (4) public-policy programs, such as energy efficiency, low-income programs, and research and development. What is at issue in the transition-cost debate? The debate turns on four questions: (1) How large are the potential

transition costs from restructuring? (2) How are these costs estimated? (3) What, if anything, might be done to address these costs? (4) Who will ultimately pay for any remaining costs and how? This paper summarizes some of the key results from a project at ORNL that addresses these four questions.

The Economics of Electricity Markets Darryl R. Biggar 2014-07-10 Bridges the knowledge gap between engineering and economics in a complex and evolving deregulated electricity industry, enabling readers to understand, operate, plan and design a modern power system With an accessible and progressive style written in straight-forward language, this book covers everything an engineer or economist needs to know to understand, operate within, plan and design an effective liberalized electricity industry, thus serving as both a useful teaching text and a valuable reference. The book focuses on principles and theory which are independent of any one market design. It outlines where the theory is not implemented in practice, perhaps due to other over-riding concerns. The book covers the basic modelling of electricity markets, including the impact of uncertainty (an integral part of generation investment decisions and transmission cost-benefit analysis). It draws out the parallels to the Nordpool market (an important point of reference for Europe). Written from the perspective of the policy-maker, the first part provides the introductory background knowledge required. This includes an understanding of basic economics concepts such as supply and demand, monopoly, market power and marginal cost. The second part of the book asks how a set of generation, load, and transmission resources should be efficiently operated, and the third part focuses on the generation investment decision. Part 4 addresses the question of the management of risk and Part 5 discusses the question of market power. Any power system must be operated at

all times in a manner which can accommodate the next potential contingency. This demands responses by generators and loads on a very short timeframe. Part 6 of the book addresses the question of dispatch in the very short run, introducing the distinction between preventive and corrective actions and why preventive actions are sometimes required. The seventh part deals with pricing issues that arise under a regionally-priced market, such as the Australian NEM. This section introduces the notion of regions and interconnectors and how to formulate constraints for the correct pricing outcomes (the issue of "constraint orientation"). Part 8 addresses the fundamental and difficult issue of efficient transmission investment, and finally Part 9 covers issues that arise in the retail market. Bridges the gap between engineering and economics in electricity, covering both the economics and engineering knowledge needed to accurately understand, plan and develop the electricity market Comprehensive coverage of all the key topics in the economics of electricity markets Covers the latest research and policy issues as well as description of the fundamental concepts and principles that can be applied across all markets globally Numerous worked examples and end-of-chapter problems Companion website holding solutions to problems set out in the book, also the relevant simulation (GAMS) codes

The Changing Structure of the Electric Power Industry 1998 More than 3,000 electric utilities in the United States provide electricity to sustain the Nation's economic growth and promote the well-being of its inhabitants. At the end of 1996, the net generating capability of the electric power industry stood at more than 776,000 megawatts. Sales to ultimate consumers in 1996 exceeded 3.1 trillion kilowatthours at a total cost of more than $210 billion. In addition, the industry added over 9 million new customers during the period from 1990 through 1996. The above statistics provide an indication of the size

of the electric power industry. Propelled by events of the recent past, the industry is currently in the midst of changing from a vertically integrated and regulated monopoly to a functionally unbundled industry with a competitive market for power generation. Advances in power generation technology, perceived inefficiencies in the industry, large variations in regional electricity prices, and the trend to competitive markets in other regulated industries have all contributed to the transition. Industry changes brought on by this movement are ongoing, and the industry will remain in a transitional state for the next few years or more. During the transition, many issues are being examined, evaluated, and debated. This report focuses on three of them: how wholesale and retail prices have changed since 1990; the power and ability of independent system operators (ISOs) to provide transmission services on a nondiscriminatory basis; and how issues that affect consumer choice, including stranded costs and the determination of retail prices, may be handled either by the US Congress or by State legislatures.

The Changing Structure of the Electric Power Industry: An Update

Transition to Renewable Energy Systems Detlef Stolten 2013-05-13 In this ready reference, top academic researchers, industry players and government officers join forces to develop commercial concepts for the transition from current nuclear or fossil fuel-based energy to renewable energy systems within a limited time span. They take into account the latest science and technology, including an analysis of the feasibility and impact on the environment, economy and society. In so doing, they discuss such complex topics as electrical and gas grids, fossil power plants and energy storage technologies. The contributions also include robust, conceivable and breakthrough technologies that will be viable and implementable by 2020.

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