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A Smart Grid for All Great Britain is in the midst of a once-in-a-generation change as significant for the electricity industry as the advent of broadband was for communications. The volume of carbon emitted in producing electricity in Britain has fallen 40% in just six years.

UK Power Networks - SmartGrid

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INTRODUCTION : #1 A Smarter Greener Grid Forging Publish By Rex Stout, A Smarter Greener Grid By Kevin B Jones And David Zoppo a smarter greener grid forging environmental progress through smart energy policies and technologies co 2 emissions from the electric power sector comprise one third of the total greenhouse gas emissions of the us economy

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A Smarter Greener Grid Forging Environmental Progress Throug

Working toward a Smarter, Greener Grid The New England states have set aggressive policy goals to lower carbon emissions and increase the amount of renewable energy, and are national leaders in

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implementing energy-efficiency (EE) measures, such as the use of more efficient lighting, appliances, cooling, and building operation.

The pressing need for a smarter and greener grid is obvious, but how this goal should be achieved is much less clear. This book clearly defines the environmental promise of the smart grid and describes the policies necessary for fully achieving the environmental benefits of the digital energy revolution. • Deciphers the muddled "information" from industry leaders and policymakers about 21st-century energy technology, enabling readers to understand how a smart grid can be a cost-effective tool to benefit the climate • Provides detailed information from case studies of six early smart grid leaders to showcase the strengths and weaknesses of these programs • Identifies the legal and regulatory challenges that could prevent the successful implementation of a smart electric grid, making it clear that the issues are not purely technological • Serves ideally as a primary text for courses on smart grid technology and policy as well as a resource for graduate-level research for energy policy or climate change policy courses

The United States' electrical grid is an antique. It was built to serve a 20th-century economy and designed in an era when the negative environmental impacts of electricity production were poorly understood. It must be upgraded and modernized. The proposed solution is a "smart grid"--a network of new digital technologies, equipment, and controls that can respond quickly to the public's changing energy needs by facilitating two-way communication between the utility and consumers. This book explains the environmental benefit of a smart grid, examines case studies of existing smart grids, and identifies the legal and regulatory policy hurdles that must be overcome to fully realize the smart grid's

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benefits. Based on six diverse organizations' experience as "early adopters" in the digital energy revolution, the authors explore how a smart electric grid offers real promise for supercharging energy efficiency, democratizing demand response, electrifying transportation, preparing for ubiquitous distributed clean energy technologies, and automating the distribution system. Against the backdrop of climate change and continuing economic uncertainty, setting a path for environmental improvement and upgrading our electric grid with new digital technologies and associated smart policies is more critical than ever before.

This book explores smart grid from a social perspective, for advanced students, academic researchers, and energy professionals.

Innovation and Disruption at the Grid's Edge examines the viable developments in peer-to-peer transactions enabled by open platforms on the grid's edge. With consumers and prosumers using more electronic platforms to trade surplus electricity from rooftop solar panels, share a storage battery, or use smart gadgets that manage load and self-generation, the grid's edge is becoming crowded. The book examines the growing number of consumers engaging in self-generation and storage, and analyzes the underlying causes and drivers of change, as well as the implications of how the utility sector—particularly the distribution network—should/could be regulated. The book also explores how tariffs are set and revenues are collected to cover both fixed and variable costs in a sustainable way. This reference is useful for anyone interested in the areas of energy generation and regulation, especially stakeholders engaged in the generation, transmission, and distribution of power. Examines the new players that will disrupt the energy grid markets Offers unique coverage of an emerging and unpublished

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Topic Helps the reader understand up-to-date energy regulations and pricing innovations

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. • Addresses broad questions concerning electricity systems and the economy • Documents innovative, energy-efficiency technologies, practices, and policies • Estimates the achievable cost-effectiveness and economic impact of energy efficiency in the United States • Illustrates a range of promising strategies for expanding green savings • Argues for more market intelligence, monitoring, and evaluation so that energy, economic, and climate goals are met • Showcases the policy environments that have enabled energy efficiency to thrive in leading cities, states, and countries around the world

Future of Utilities - Utilities of the Future: How technological innovations in distributed generation will reshape the electric power sector relates the latest information on the electric power sector its rapid transformation, particularly on the distribution network and customer side. Trends like the rapid rise of self-generation and distributed generation, microgrids, demand response, the dissemination of electric vehicles and zero-net energy buildings that promise to turn many consumers into prosumers are discussed. The book brings together authors from industry and academic backgrounds to present their original, cutting-edge and thought-provoking ideas on the challenges currently faced by electric utilities around the globe, the opportunities they present, and what the future might hold for both traditional players and new entrants to the sector. The book's first part lays out the present scenario, with concepts such as an integrated grid, microgrids, self-generation, customer-centric service, and pricing, while the second part focuses on how innovation, policy, regulation, and pricing models may come together to

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form a new electrical sector, exploring the reconfiguring of the current institutions, new rates design in light of changes to retail electricity markets and energy efficiency, and the cost and benefits of integration of distributed or intermittent generation, including coupling local renewable energy generation with electric vehicle fleets. The final section projects the future function and role of existing electrical utilities and newcomers to this sector, looking at new pathways for business and pricing models, consumer relations, technology, and innovation. Contains discussions that help readers understand the underlying causes and drivers of change in the electrical sector, and what these changes mean in financial, operational, and regulatory terms Provides thought-provoking ideas on the challenges currently faced by electric utilities around the globe, the opportunities they present, and what the future might hold for both traditional players and new entrants to the sector Helps readers anticipate what developments are likely to define the function and role of the utility of the future

This book makes the case for a New Environmentalism, and using a systems change approach, takes the reader through ideas for reorienting the economy. It addresses the laws and policies needed to support the emergence of a new economy across a variety of major areas – from energy to food, across common pool resources, and shifting investments to capitalize locally-connected and mission-driven businesses. The authors take the approach that the challenges are much broader than setting parameters around pollution, and go to the heart of the dominant global political economy. It explores the values needed to transform our current economic system into a new economy supportive of ecological integrity, social justice, and vibrant democracy.

Providing critical insights that will interest readers ranging from economists to environmentalists,

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Energy, Business, Technology And Policy

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. • Presents comprehensive and understandable reviews of more than 200 recent empirical studies of market imperfections in the energy efficiency and climate change literature, providing a basis for targeting policies at the most important causes of poor market performance • Argues that aggressive action to induce change and overcome resistance, using targeted policies rather than broad-based taxes, is the strategy that will create movement towards a decarbonized economy and world • Provides a logical decision-making framework and portfolio analysis that enables policymakers and regulators to choose, explain, and defend their decisions, objectively and transparently

Presenting critical insights on how economic activity is constrained by the environment's ability to provide material and energy resources, this timely Research Agenda explores how humanity shapes, and is shaped by, environmental change and sustainability challenges. Chapters highlight how, under these constraints, people may seek to improve their lives and standards of living without undermining the abilities of others to do so now or in the future.

This book analyses the trilemma between growth, energy security and climate change mitigation and, breaking from scholarly orthodoxy, challenges the imperative that growth must always come first. It sets forth the argument that a steady-state approach is a more appropriate conceptual mindset to enable energy transition, sets out a steady-state energy policy, and assesses the projected outcomes of its implementation in the realms of energy security, geopolitics and development. By exploring in depth the

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implications of such a shift, the book aims to demonstrate its positive effects on sustainability, supply security and affordability; to showcase the more favorable geopolitics of renewable energy; and to unpack new pathways towards development. By bringing together ecological economics and mainstream energy politics, fresh insight to energy and climate policy is provided, alongside their broader geopolitical and developmental ramifications.

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