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Summary. A comprehensive, coherent strategy for modernizing America's electricity infrastructure while ensuring affordable, reliable, secure, and environmentally sustainable electricity services. America's aging electricity infrastructure is deteriorating rapidly even as the need for highly reliable electric

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energy consultant. During a distinguished career of more than five decades, he has worked as a senior executive in the electric utility industry and the independent power industry as well as in academia and the U.S. government ...

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Cambridge, MA: MIT Press, 2017, 320 pp

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reliable, secure, and environmentally sustainable electricity services. America's aging electricity infrastructure is deteriorating rapidly even as the need for highly reliable electric service—driven by the explosion of digital technology—continues to rise. Largely missing from national discussions,

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however, is a coherent, comprehensive national strategy for modernizing this critical infrastructure. Energy expert Mason Willrich presents just such a strategy in this book, connecting the dots across electric utilities, independent suppliers, government bureaucracies, political jurisdictions, and academic

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disciplines. He explains the need for a coherent approach, offers a framework for analyzing policy options, and proposes a step-by-step strategy for modernizing electrical infrastructure, end-to-end, in a way that ensures the delivery of affordable, reliable, secure, and environmentally sustainable electricity services. Willrich

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argues that an effective electrical infrastructure modernization strategy must incorporate flexibility, adaptability, and the capacity to coordinate policies at local, state, and federal levels. He reviews the history of America's electrification, from Edison's demonstration of the incandescent light bulb through the recent

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expansion of wind, solar, and energy efficiency as carbon-free energy resources.

He describes the current ownership and operation of the electric industry and the complicated web of federal and state policies that govern it.

Forty years of energy incompetence:

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villains, failures of leadership, and missed opportunities. Americans take for granted that when we flip a switch the light will go on, when we turn up the thermostat the room will get warm, and when we pull up to the pump gas will be plentiful and relatively cheap. In *The End of Energy*, Michael Graetz shows us that we have

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been living an energy delusion for forty years. Until the 1970s, we produced domestically all the oil we needed to run our power plants, heat our homes, and fuel our cars. Since then, we have had to import most of the oil we use, much of it from the Middle East. And we rely on an even dirtier fuel—coal—to produce half of

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our electricity. Graetz describes more than forty years of energy policy incompetence and argues that we must make better decisions for our energy future. Despite thousands of pages of energy legislation since the 1970s (passed by a Congress that tended to elevate narrow parochial interests over our national goals),

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Americans have never been asked to pay a price that reflects the real cost of the energy they consume. Until Americans face the facts about price, our energy incompetence will continue—and along with it the unraveling of our environment, security, and independence.

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The history of the grid, the world's largest interconnected power machine that is North America's electricity infrastructure. The North American power grid has been called the world's largest machine. The grid connects nearly every living soul on

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the continent; Americans rely utterly on the miracle of electrification. In this book, Julie Cohn tells the history of the grid, from early linkages in the 1890s through the grid's maturity as a networked infrastructure in the 1980s. She focuses on the strategies and technologies used to control power on the grid—in fact made

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up of four major networks of interconnected power systems—paying particular attention to the work of engineers and system operators who handled the everyday operations. To do so, she consulted sources that range from the pages of historical trade journals to corporate archives to the papers of her

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father, Nathan Cohn, who worked in the industry from 1927 to 1989—roughly the period of key power control innovations across North America. Cohn investigates major challenges and major breakthroughs but also the hidden aspects of our electricity infrastructure, both technical and human. She describes the origins of

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the grid and the growth of interconnection; emerging control issues, including difficulties in matching generation and demand on linked systems; collaboration and competition against the backdrop of economic depression and government infrastructure investment; the effects of World War II on electrification;

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postwar plans for a coast-to-coast grid; the northeast blackout of 1965 and the East-West closure of 1967; and renewed efforts at achieving stability and reliability after those two events.

Theres probably a good chance that youve turned on your television, computer, or an

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appliance without giving much thought
about the electric grid. But when theres a
power outage, its a different story.

Suddenly, youre asking yourself questions
such as: What is the electric grid and who
owns it? Who controls the grid and how is
it controlled? What causes a grid blackout?
What is the future of the grid? William L.

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Thompson, who retired from Dominion Virginia Power after thirty-eight years in the electric business, answers those questions and many more in this book for anyone curious about the electric grid and how it works. In plain, simple language, he reveals what goes on behind the scenes at grid control centers across the country. He

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also explains how electricity is generated through renewable energy sources such as wind and solar. He also examines the causes behind the largest blackout in United States history and how global warming and technological developments could permanently change Living on the Grid.

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As the electric power industry faces the challenges of climate change, technological disruption, new market imperatives, and changing policies, a renowned energy expert offers a roadmap to the future of this essential sector. As the damaging and costly impacts of climate change increase,

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the rapid development of sustainable energy has taken on great urgency. The electricity industry has responded with necessary but wrenching shifts toward renewables, even as it faces unprecedented challenges and disruption brought on by new technologies, new competitors, and policy changes. The result is a collision

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course between a grid that must provide abundant, secure, flexible, and affordable power, and an industry facing enormous demands for power and rapid, systemic change. The fashionable solution is to think small: smart buildings, small-scale renewables, and locally distributed green energy. But Peter Fox-Penner makes clear

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that these will not be enough to meet our increasing needs for electricity. He points instead to the indispensability of large power systems, battery storage, and scalable carbon-free power technologies, along with the grids and markets that will integrate them. The electric power industry and its regulators will have to

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provide all of these, even as they grapple with changing business models for local electric utilities, political instability, and technological change. Power after Carbon makes sense of all the moving parts, providing actionable recommendations for anyone involved with or relying on the electric power system.

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A Practical Guide to the Retail Rate Setting Process for Regulated Electric and Natural Gas Utilities. This book explains how the traditional rate-setting process is commonly done for energy utilities. This book includes a discussion of revenue requirement, rate base, cost of capital,

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expenses, revenues, rate-making objectives, cost of service studies, rate design, the rate case process, tariff policies, metering, service quality and other types of cases affecting rates. The book concludes with a numerical example showing the calculation steps from revenue requirement to rate design.

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The energy industry is changing, and it ' s far more than just solar panels. Electric vehicles look to overtake gasoline-powered cars within our lifetimes, wind farms are popping up in unlikely places, traders are transforming energy into a commodity, and supercomputers are crunching vast

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amounts of data in nanoseconds while helping to keep our energy grids secure from hackers. The way humans produce, distribute and consume power will be cleaner, cheaper, and infinitely more complex within the next decade. In *The Energy Switch*, leading energy industry expert Peter Kelly-Detwiler looks at all

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Electricity Infrastructure: how we got here, where we are going, and the implications for all of us in our daily lives.

Kelly-Detwiler takes readers to the frontlines of the energy revolution. Meet Steve Collins, an executive from Commercial Development Corporation, the company that blew up two

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\$570-million-dollar concrete cooling towers to create a staging ground for the new \$70 billion U.S. offshore wind industry; Rob Threlkeld, a General Motors executive who convinced the auto giant to sign multiple 20-year renewable energy contracts worth hundreds of millions; Kevin McAlpin, a Texas

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homeowner who buys the power for his home on the electricity spot market – where prices can soar from less than one cent a kilowatthour to \$9.00 over the course of a single day; Dr. Kristin Persson, who oversees a supercomputer that can process data at 30 quadrillion calculations per second, in the quest for better

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renewable energy and battery technologies; and John Davis, a Texas rancher who can keep his land intact, with help from the royalty payments from seven turbines spinning on his range. Energy creation and distribution has driven society ' s progress for centuries. Today, people are increasingly aware that it is

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imperative that humans move towards a cleaner, digitized, and democratized energy economy. The Energy Switch is about that multi-trillion dollar transformation, told from the perspective of those leading us to that bright future.

This timely study evaluates four generic

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proposals for allowing free market forces
to replace government regulation in the
electric power industry and concludes that
none of the deregulation alternatives
considered represents a panacea for the
performance failures associated with things
as they are now. It proposes a balanced
program of regulatory reform and

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deregulation that promises to improve industry performance in the short run, resolve uncertainties about the costs and benefits of deregulation, and positions the industry for more extensive deregulation in the long run should interim experimentation with deregulation, structural, and regulatory reforms make it

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desirable. The book integrates modern microeconomic theory with a comprehensive analysis of the economic, technical, and institutional characteristics of modern electrical power systems.

It emphasizes that casual analogies to successful deregulation efforts in other sectors of the economy are an inadequate

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and potentially misleading basis for public policy in the electric power industry, which has economic and technical characteristics that are quite different from those in other deregulated industries. Paul L. Joskow is Professor of Economics at MIT, author of *Controlling Hospital Costs* (MIT Press 1981) and coauthor with Martin L.

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Baughman and Dilip P. Kamat of
Electric Power in the United States (MIT
Press 1979). Richard Schmalensee, also at
MIT, is Professor of Applied Economics,
author of The Economics of Advertising
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and editor of The MIT Press Series,
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This comprehensive and up-to-date book explains the economic rationale behind the production, delivery and exchange of electricity. Cret and Fontini explain why electricity markets exist, outlining the economic principles behind the exchange and supply of power to consumers and

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firms. They identify the specificities of electricity, as compared to other goods, and furthermore suggest how markets should be optimally designed to produce and deliver electricity effectively and efficiently. The authors also address key issues, including how electricity can be decarbonized. Written in a technical yet

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accessible style, this book will appeal to readers studying power system economics and the economics of electricity, as well as those more generally interested in energy economics, including engineering and management students looking to gain an understanding of electricity market analysis.

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