



TECHNOLOGY AND TRANSFORMATION

IN THE AMERICAN
ELECTRIC UTILITY
INDUSTRY

RICHARD F. HIRSH

Technology And Transformation In The American Electric Utility Industry

Richard F. Hirsh



Technology And Transformation In The American Electric Utility Industry:

Technology and transformation in the American electric utility industry Richard F. Hirsh, 1989 **Technology and Transformation in the American Electric Utility Industry** Richard F. Hirsh, 2003-11-20 This book illuminates the role of technological stagnation in the decline of the American electric utility industry in the late 1960s and 1970s Unlike other interpreters of the industry's woes Professor Hirsh argues that a long and successful history of managing a conventional technology set the stage for the industry's deterioration After improving steadily for decades the technology that brought unequalled productivity growth to the industry appeared to stall in the late 1960s making it impossible to mitigate the economic and regulatory assaults of the 1970s Unfortunately most managers did not recognize or did not want to believe the severity of the technological problems they faced and they chose to focus instead on issues usually financial or public relations that appeared more manageable Partly as a result of this lack of attention to technological issues the industry found itself in the 1980s challenged by the prospects of deregulation and restructuring

Powering American Farms Richard F. Hirsh, 2022-06-14 The untold story of the power industry's efforts to electrify growing numbers of farms in the years before the creation of Depression era government programs Even after decades of retelling the story of rural electrification in the United States remains dramatic and affecting As textbooks and popular histories inform us farmers obtained electric service only because a compassionate federal government established the Tennessee Valley Authority and the Rural Electrification Administration REA during the Great Depression of the 1930s The agencies success in raising the standard of living for millions of Americans contrasted with the failure of the greedy big city utility companies which showed little interest in the apparently unprofitable nonurban market Traditional accounts often describe the nation's population as split in two separated by access to a magical form of energy just past cities limits a bleak preindustrial class of citizens endured literally in near darkness at night and envious of their urban cousins who enjoyed electrically operated lights refrigerators radios and labor saving appliances In *Powering American Farms* Richard F Hirsh challenges the notion that electric utilities neglected rural customers in the years before government intervention Drawing on previously unexamined resources Hirsh demonstrates that power firms quadrupled the number of farms obtaining electricity in the years between 1923 and 1933 for example Though not all corporate managers thought much of the farm business a cadre of rural electrification advocates established the knowledge base and social infrastructure upon which New Deal organizations later capitalized The book also suggests that the conventional storyline of rural electrification remains popular because it contains a colorful hero President Franklin D Roosevelt and villainous utility magnates such as Samuel Insull who make for an engaging but distorted narrative Hirsh describes the evolution of power company managers thinking in the 1920s and early 1930s from believing that rural electrification made no economic sense to realizing that serving farmers could mitigate industry wide problems This transformation occurred as agricultural engineers in land grant universities supported by

utilities demonstrated productive electrical technologies that yielded healthy profits to farmers and companies alike Gaining confidence in the value of rural electrification private firms strung wires to more farms than did the REA until 1950 a fact conveniently omitted in conventional accounts Powering American Farms will interest academic and lay readers of New Deal history the history of technology and revisionist historiography **The Structure of American Industry** James

Brock,2013-03-20 Americans continually cross paths with major industries that comprise the U S economy These industries face and raise challenging issues that in turn generate important economic questions How are individual industries organized and structured What share of their market do they represent What are the major public policy issues they affect What are the economic consequences of addressing them A single text examining every industry would provide a disjointed haphazard analysis The case study approach taken in *The Structure of American Industry* avoids such shortcomings The expert author of each case studyfourteen in allpresents a comprehensive and coherent analysis of a specific industry The holistic in depth treatment sparks lively interest does not succumb to theoretical abstractions and offers practical answers to economic questions *The Structure of American Industry* James W. Brock,2015-07-28

The major American industries agriculture petroleum electricity banking telecommunications movies college sports airlines health care and the beer cigarette and automotive industries intersect our lives every day Studying these industries raises a number of economic questions How are the individual industries organized and structured What is their history What are the dominant organizations in each field and what share of their market do they represent What is the nature of competition in these fields and how effectively does it govern economic decision making The nature of these industries also raises a host of public policy challenges What significant policy issues do they pose what options are available for addressing them and what role can and should the government play Unlike other books that offer economic treatments focused on theoretical expositions and analyses the thirteenth edition addresses all these questions in a manner that treats each industry in a comprehensive holistic way Brock s approach focuses on everyday experience enhancing readers understanding through examples that emphasize incident and detail Each chapter written by an expert in the field has been updated or rewritten for this edition A new chapter on the movie industry has been added as well This outstanding overview of American industry offers the reader a live laboratory of clinical examination and comparative analysis **The Dirty Energy Dilemma** Benjamin K. Sovacool,2008-10-30

The American electric utility system is quietly falling apart Once taken for granted the industry has become increasingly unstable fragmented unreliable insecure inefficient expensive and harmful to our environment and public health According to Sovacool the fix for this ugly array of problems lies not in nuclear power or clean coal but in renewable energy systems that produce few harmful byproducts relieve congestion on the transmission grid require less maintenance are not subject to price volatility and enhance the security of the national energy system from natural catastrophe terrorist attack and dependence on supply from hostile and unstable regions of the world Here arises *The Dirty Energy Dilemma* If renewable

energy systems deliver such impressive benefits why are they languishing at the margins of the American energy portfolio And why does the United States lag so far behind Europe where conversion to renewable energy systems has already taken off in a big way Corporate media parrot industry PR that renewable technologies just aren't ready for prime time But Sovacool marshals extensive field research to show that the only barrier blocking the conversion of a significant proportion of the U S energy portfolio to renewables is not technological the technology is there but institutional Public utility commissioners utility managers system operators business owners and ordinary consumers are hobbled by organizational conservatism technical incompatibility legal inertia weak and inconsistent political incentives ill founded prejudices and apathy The author argues that significant conversion to technologically proven clean energy systems can happen only if we adopt and implement a whole new set of policies that will target and dismantle the insidious social barriers that are presently blocking decisions that would so obviously benefit society

Empowering the West Jay L. Brigham, 1998 Westerners were at the forefront of the debate over electric power development even before the construction of large federally owned dams in the 1930s At the heart of this debate was a conflict between public power advocates and the private utility industry over control of the environment a struggle that was played out in the political arena In this book Jay Brigham describes that rivalry in the West in the years before the New Deal Focusing on the conservative city of Los Angeles and its liberal counterpart Seattle as well as on several small towns in the Midwest Brigham shows how fierce battles broke out as private and public systems competed for customers and how despite the differences between these two cities public power ultimately triumphed in each

Company Men Clark Davis, 2001-10-12 The story of the early decades of American big business when white collar jobs were new and their future uncertain America's white collar workers form the core of the nation's corporate economy and its expansive middle class But just a century ago white collar jobs were new and their future anything but certain In *Company Men* Clark Davis places the corporate office at the heart of American social and cultural history examining how the nation's first generation of white collar men created new understandings of masculinity race community and success all of which would dominate American experience for decades to come *Company Men* is set in Los Angeles the nation's corporate frontier of the early twentieth century Davis shows how this California city often considered on the fringe of American society for the very reason that it was new and growing so rapidly displayed in sharp contours how America's corporate culture developed The young men who left their rural homes for southern California a century ago not only helped build one of the world's great business centers but also redefined middle class values and morals Of interest to students of business history gender studies and twentieth century culture this work focuses on the company man as a pivotal actor in the saga of modern American history

Science as Service Alan I Marcus, 2015-08-15 *Science as Service* is a collection of essays that traces the development of the land grant colleges established by the Morrill Act of 1862 and documents how their faith and efforts in science and technology gave credibility and power to these institutions and their scientists

Technology, Governance and Political Conflict in International Industries Tony Porter, 2002-03-28 This book makes an important theoretical contribution to our understanding of international institutions by exploring conceptually and empirically the impact of technology on the governance of international economic activities Technology Governance and Political Conflict in International Industries addresses the current intense interest among scholars

The Rise and Fall of State-Owned Enterprise in the Western World Pierangelo Maria Toninelli, 2000-10-02 This book examines the twentieth century rise and fall of state owned enterprises in Western political economy

Sinews of Power Yi-Chong Xu, 2017 Politics of the State Grid Corporation of China Electricity From the ministry to a corporation Overseeing SGCC the contested regimes of central agencies State Grid Corporation of China SGCC in action as a policy entrepreneur SGCC in action as technology innovator SGCC in action internationalisation

Interpreting Energy at Museums and Historic Sites Leah S. Glaser, 2022-12-13 Experts all agree that human beings can mitigate climate change by changing how we use energy for heat light movement and production Stewards of heritage sites and collections can engage the public at the grassroots level to raise awareness about the cultural and socioeconomic reasons for past choices that have contributed to climate change This book will help cultural institutions identify ways to interpret new stories through historic places and resources especially if staff have made the commitment to go green Without place based context discussions about energy focus primarily on the science and not the human experience By reminding us of our past practices and values regarding energy production and use historic places can inspire different ways of thinking about transitioning to different energy sources and question the doctrine that high energy use is necessary for progress Public interpretation can expose the vast energy infrastructure and the impact of energy extraction production and use on place Historic sites offer place based contexts for visitors to interact with and think critically about the processes and the impact of energy development in for example a maritime village This book synthesizes science with the humanities outside of popular media and other politicized spaces to identify different kinds of energy resources in many historic collections or sites It supplements current calls for economic and policy changes because as stewards of historic places we need to do what we can in this all hands on deck moment to prepare for shared stewardship of our future

Trillions for Military Technology J. Alic, 2007-09-03 Trillions for Military Technology explains why the weapons purchased by the U S Department of Defense cost so much why it takes decades to get them into production even as innovation in the civilian economy becomes ever more frenetic and why some of those weapons don't work very well despite expenditures of many billions of dollars It also explains what do about these problems The author argues that the internal politics of the armed services make weapons acquisition almost unmanageable Solutions require empowering civilian officials and reforms that will bring choice of weapons into the sunshine of public debate

Green Capitalism? Hartmut Berghoff, Adam Rome, 2017-04-05 At a time when the human impact on the environment is more devastating than ever business initiatives frame the quest to green capitalism as the key to humanity's long term survival

Indeed even before the rise of the environmental movement in the 1970s businesses sometimes had reasons to protect parts of nature limit their production of wastes and support broader environmental reforms In the last thirty years especially many businesses have worked hard to reduce their direct and indirect environmental footprint But are these efforts exceptional or can capitalism truly be environmentally conscious Green Capitalism offers a critical historically informed perspective on building a more sustainable economy Written by scholars of business history and environmental history the essays in this volume consider the nature of capitalism through historical overviews of twentieth century businesses and a wide range of focused case studies Beginning early in the century contributors explore the response of business leaders to environmental challenges in an era long before the formation of the modern regulatory state Moving on to midcentury environmental initiatives scholars analyze failed business efforts to green products and packaging such as the infamous six pack ring in the 1960s and 1970s The last section contains case studies of businesses that successfully managed greening initiatives from the first effort by an electric utility to promote conservation to the environmental overhaul of a Swedish mining company to the problem of household waste in pre 1990 West Germany Ranging in geographic scope from Europe to the United States Green Capitalism raises questions about capitalism in different historical sociocultural and political contexts Contributors Hartmut Berghoff Ann Kristin Bergquist Brian C Black William D Bryan Julie Cohn Leif Fredrickson Hugh S Gorman Geoffrey Jones David Kinkela Roman Kster Joseph A Pratt Adam Rome Christine Meisner Rosen **Powering the Green Economy** Miguel Mendonça, David Jacobs, Benjamin K. Sovacool, 2009 First Published in 2009 Routledge is an imprint of Taylor Francis an informa company Sociotechnical Communication in Engineering Jon Leydens, 2015-10-14 This collection explores why engineering communication constitutes sociotechnical communication Sociotechnical communication acknowledges that engineering communication occurs not in a vacuum but shapes and is shaped by multiple social forces Through diverse research cases the authors show how sociotechnical communication disrupts common myths in engineering communication the myth that communication can be purely technical and neutral and that data speak for themselves The book highlights these myths considering first how styles types and means of sociotechnical communication played pivotal and differing roles in the evolution of wind power technology in Denmark and Germany The role of myth in engineering blogs is also examined wherein the effect of engineers maintaining objective or neutral personae accentuating technical facts over their social relevance and eschewing controversy is to decrease public interest in engineering issues We see the myths emerge again via product development engineers whose narrow technical roles constrain their identities and may contribute to constraining their design innovation capacities in contrast to more holistic flexible spaces that foster innovation The myths are also apparent in constructing bridges across Millennial Baby Boomer generational divides to facilitate engineering collaboration and knowledge transfer among engineers Finally the myths are situated in light of related myths and broader research trends in engineering communication This book was originally published as a special issue of Engineering Studies **Energy**

Systems and Environment Pavel Tsvetkov,2018-09-12 This book looks at environmental aspects of energy technologies from common traditional sources in use new sources and emerging sources and technologies The objective of this book is to serve as a one stop comprehensive information resource on energy and environment topics from energy science to energy engineering to energy politics Starting with science and technology topics we link them to economics and politics showcasing interconnections between energy sources energy utilization energy conversion and sustainability under the common theme of energy and environment The book achieves its objective by offering and integrating deeply technical and socioeconomics papers together on energy and environment topics

Cities of Light and Heat Mark H. Rose,1995-01-01 *Cities of Light and Heat* takes us to Kansas City and Denver during the late nineteenth century when gas and electricity were introduced to these instant cities of the west With rich detail Mark Rose shows how the new technology spread during the next century from a few streets and businesses within the city limits to countless private homes in the suburbs In Kansas City and Denver as in most communities throughout the U S business executives city leaders and engineers acted as early promoters of the new technology But by the early 1900s educators home builders architects and salespersons were becoming increasingly important as gas and electric utilities and appliances reached more and more American homes But these voices for the new technology brought with them their own social attitudes and cultural values By mid century whether in the classroom or in advertisements Americans were regularly encouraged to fit the new technology within prevailing notions of cleanliness comfort convenience and gender Although in hindsight the spread of modern technology might seem inevitable to us Rose shows how even the leaders of the nation s great gas and electric corporations with their vast production and distribution facilities were subject to geography competing ideologies urban politics and even the choices of ordinary consumers Rose thus locates the driving force behind the diffusion of technology in the neighborhoods kitchens and offices of the city *Cities of Light and Heat* shows the importance of culture politics and urban growth in shaping technological change in the cities of North America

Sustainable Development and the Energy Industries Nicola Steen,2017-09-05 Originally published in 1994 this book contains the edited papers of the workshop of the Energy and Environmental Programme at the Royal Institute of Interantional Affairs which examined the interaction between environmental legislation and the energy indusutries It examines past experience the nature of the challenges to the industries actual industrial responses and what implications this might have framing legislation The international contributors represent a range of perspectives

Decoding **Technology And Transformation In The American Electric Utility Industry**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Technology And Transformation In The American Electric Utility Industry**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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