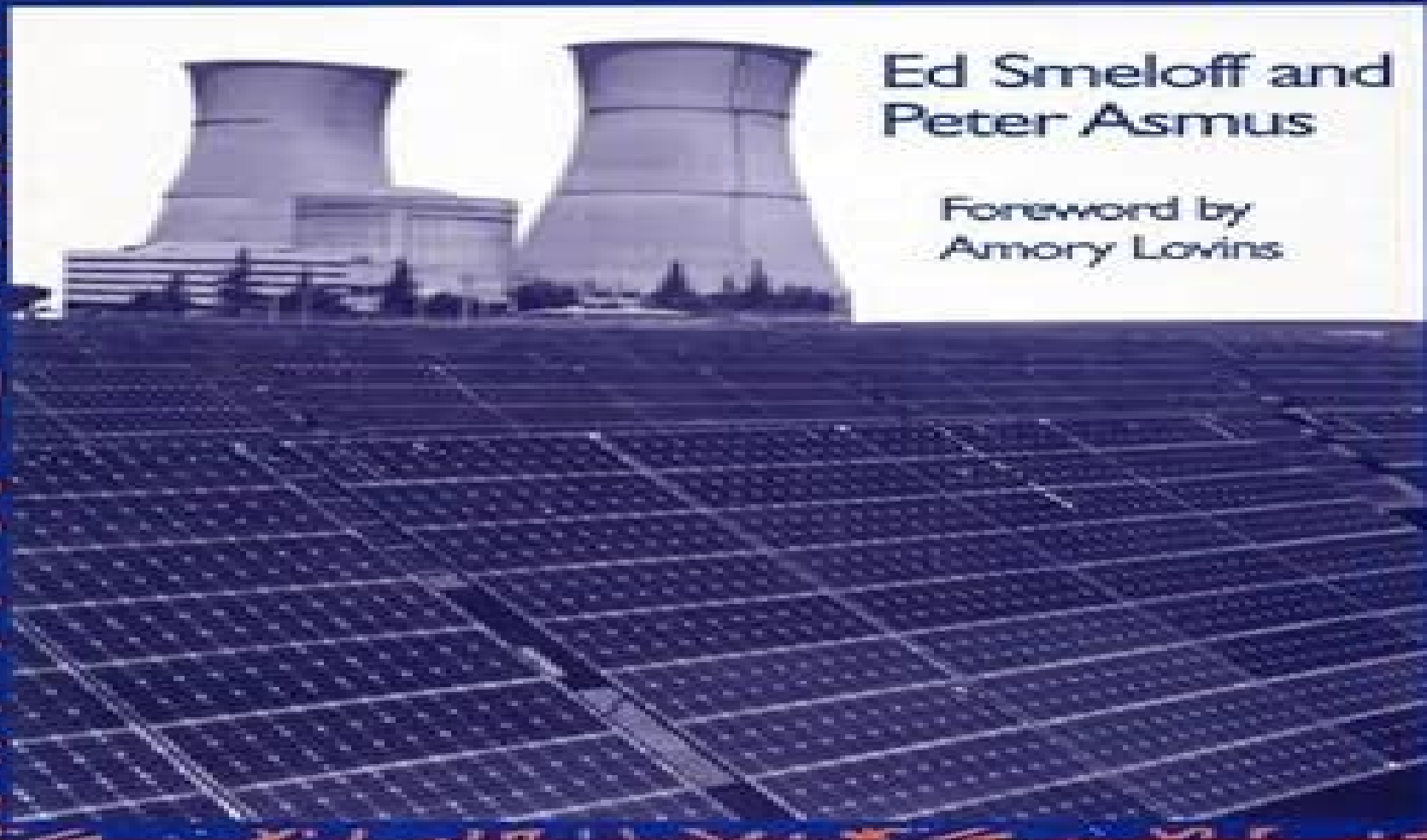


Reinventing Electric Utilities

Competition, Citizen Action, and Clean Power

Ed Smeloff and
Peter Asmus

Foreword by
Amory Lovins



Safe Energy Communication Council

Reinventing Electric Utilities Competition Citizen Action And Clean Power

Peter Asmus



Reinventing Electric Utilities Competition Citizen Action And Clean Power:

Reinventing Electric Utilities Ed Smeloff, Peter Asmus, 1997 The SMUD portrait is complemented by regional case studies of Portland General Electric and the Washington Public Power Supply System the New England Electric Service Northern States Power the Electricity Reliability Council of Texas and others

Reinventing Electric Utilities Edward Smeloff, Peter Asmus, 1996-12-01 Traditionally protected as monopolies electric utilities are now being caught in the fervor for deregulation that is sweeping the country Nearly forty states have enacted or are considering laws and regulations that will profoundly alter the way the electric utility industry is governed Concerned citizens are beginning to ponder the environmental implications of such a change and while many fear that the pressure of competition will exacerbate environmental problems others argue that deregulation provides a tremendous opportunity for citizens to work toward promoting cleaner energy and a more sustainable way of life In *Reinventing Electric Utilities* Ed Smeloff and Peter Asmus consider the challenges for citizens and the utility industry in this new era of competition Through an in depth case study of the Sacramento Municipal Utility District SMUD a once troubled utility that is now widely regarded as a model for energy efficiency and renewable energy development they explore the changes that have occurred in the utility industry and the implications of those changes for the future The SMUD portrait is complemented by regional case studies of Portland General Electric and the Washington Public Power Supply System the New England Electric Service Northern States Power the Electricity Reliability Council of Texas and others that highlight the efforts of citizen groups and utilities to eliminate unproductive and environmentally damaging sources of power and to promote the use of new cleaner energy technologies The authors present and explain some of the fundamental principles that govern restructuring while acknowledging that solutions will depend upon the unique resource needs culture and utility structure of each particular region Smeloff and Asmus argue that any politically sustainable restructuring of the electric services industry must address the industry's high capital cost commitments and environmental burdens Throughout they make the case that with creative leadership open and competitive markets and the active participation of citizens this upheaval offers a unique opportunity for electric utilities to lessen the burden of electricity production on the environment and reduce the cost of electric services through the use of more competitive cleaner power sources While neither technological innovation nor the magic of the market will in and of itself reinvent the electric utility industry the influence of those dynamic forces must be understood *Reinventing Electric Utilities* is an important work for policymakers energy professionals and anyone concerned about the future of the electric services industry

Wissensbasierte Verhandlungsautomatisierung auf elektronischen Echtzeit-Märkten Florian Lang, 2008-08-28 Elektronische Märkte dienen der Zusammenführung von Angebot und Nachfrage mithilfe elektronischer Medien insbesondere Informations- und Kommunikationssystemen Diese unterstützen und automatisieren die Abwicklung von Markttransaktionen d.h. der Interaktion zwischen Anbieter und Nachfrager bzw. Verkäufer und Käufer zum Zweck des

Leistungsaustauschs Der Anbieter offeriert Sachg ter Dienstleistungen Informationen Rechte usw w hrend der Nachfrager in der Regel eine monet re Gegenleistung erbringt Bei den meisten elektronischen M rkten findet ein Abgleich zwischen Angebot und Nachf ge auf der Basis eines einzigen Einigungskriteriums statt Meistens ist dies der Preis als alleiniger Verhandlungsgegenstand die restlichen Leistungsparameter sind fixiert So sind automatisierte Verhandlungen auf elektronischen M rkten meist auf standardisierte Transaktionsobjekte schr nkt die nach einem einheitlichen Muster beschreibbar sind Das Treffen einer Vereinbarung zwischen Anbieter und Nachfrager wird komplex und schwierig wenn ber mehrere variable Leistungsspezifika gleichzeitig zu verhandeln ist Stra gien Handlungsmuster und Dialoge wie sie bei derartigen Verhandlungen zwischen Personen zu beobachten sind werden von elektronischen M rkten derzeit bei weitem nicht abgebildet Wenn sich Menschen auf einen Vertrag zu einigen haben flie en in das Verhalten h ufig individuelle berlegungen ein um mit Verhandlungsgeschick und zus tzlichem Wissen das beste oder ein m glichst gutes Ergebnis f r sich selbst zu erzielen Die Automatisierung von Verhandlungen ber mehrere variable Leistungsspezifika auf elektronischen M rkten muss diesem intelligenten Verhalten Rechnung tragen Ein Ansatz ist es den hohen Anforderungen durch Einsatz von Methoden dersog K nstlichen Intelligenz und von Wissensbasierten Systemen ein St ck weit nachzukommen

Natürlicher Kapitalismus Fouad Sabry, 2024-02-02 Was ist Naturkapitalismus Ein umwelt konomisches Buch mit dem Titel Natural Capitalism Creating the Next Industrial Revolution wurde 1999 ver ffentlicht Es wurde von Paul Hawken Amory Lovins und anderen geschrieben Hunter Lovins die alle zum Buch beigetragen haben Es war Gegenstand einer Zusammenfassung die im Harvard Business Review ver ffentlicht wurde und in ein Dutzend verschiedene Sprachen bersetzt wurde Wie Sie davon profitieren werden I Erkenntnisse und Validierungen zu den folgenden Themen Kapitel 1 Nat rlicher Kapitalismus Kapitel 2 Kapitalismus Kapitel 3 Antikapitalismus Kapitel 4 Naturkapital Kapitel 5 Umwelt konomie Kapitel 6 Rechnungslegungsreform Kapitel 7 kologische konomie Kapitel 8 Nachhaltiges Management Kapitel 9 Amory Lovins Kapitel 10 kologische Modernisierung Kapitel 11 kokapitalismus Kapitel 12 Gr ne Wirtschaft Kapitel 13 Paul Hawken Kapitel 14 Kapitalismuskritik Kapitel 15 Hunter Lovins Kapitel 16 Wirtschaft Kapitel 17 Ressourcenproduktivit t Kapitel 18 Wirtschaftsdemokratie Kapitel 19 Marktsozialismus Kapitel 20 Postkapitalismus Kapitel 21 Nachhaltiger Kapitalismus II Beantwortung der wichtigsten ffentlichen Fragen zum nat rlichen Kapitalismus III Beispiele aus der Praxis f r Verwendung des nat rlichen Kapitalismus in vielen Bereichen F r wen dieses Buch gedacht ist Profis Studenten und Doktoranden Enthusiasten Hobbyisten und diejenigen die es wollen gehen Sie ber das Grundwissen oder die Informationen f r jede Art von Naturkapitalismus hinaus

The Workbook, 1996 **Contested Energy Futures** Stuart Rosewarne, 2022-06-11 This book unpacks the politics of climate change in Australia in the context of successive conservative Coalition governments resisting any moves to mitigate emissions and as local communities and transnational corporations struggle with each other to control the transition to a sustainable energy future As Australia has abundant clean energy resources in terms of solar and wind the book offers a test

case for study of the energy policy transition in the 21st century It does so by using tools from political economy and sociology teasing out public attitudes to renewable energy technologies and innovative infrastructure investments unpacking the complex parameters of this historical debate tracing the rise of household prosumers and arguing the case for grassroots ownership of renewable infrastructure or energy sovereignty already pioneered by some isolated communities in Australia The cultural and emancipatory benefits of cooperative ventures are well known However capitalism is not readily defeated by democracy The promotion of individual households as virtual power stations of smart technologies and even of cryptocurrency into the energy transition innovative mix opens up ever new horizons for corporate control

Power for the People Mary M. Timney, 2015-04-29 Power for the People examines the tension between the social and political interests of states and the market in the case of energy policy The author has conducted extensive research on California's experience with electricity restructuring and assesses how the diverging interests of the market vs the state resulted in that notable failure of energy deregulation She includes overviews of many other states and offers analysis on how states can balance their own interests with the market without imposing high costs on their citizens or the environment This is the first book to look at deregulation from the point of view of the consumer and the states Exceptionally clear balanced and well written it is essential reading for anyone interested in public policy energy studies and government deregulation of services and would also be an ideal supplement for any courses in these areas

How the California Electricity Crisis Generated a Green Wave Kurt Schuparra, 2024-12-30 This book provides the definitive account of a decade long transformation of energy policy in California with rippling consequences The author a state government insider during much of this period tells a story informed by personal experience access to the key actors of the time both then and now and extensive research California's risky experiment in deregulating the state's electricity market in the 1990s resulting in manipulation from unscrupulous energy providers and necessitating government action laid the foundation for a greener grid and greater energy efficiency in the early 2000s and beyond The book follows the state's energy journey through Democratic Governor Gray Davis's administration and his Republican successor Arnold Schwarzenegger's time in office providing a detailed behind the scenes account It highlights how this period influenced broader discussions of energy policy in the U S culminating in President Barack Obama pledging bold action and securing 90 billion for clean energy programs in the 2009 stimulus bill the largest single green investment in history at that point in time The energy crisis provided a springboard for green growth by discrediting deregulation elevating public support and establishing a political pathway for a growing array of sustainable energy advocates This book engagingly balances policy considerations and political drama to reveal the untold details of how the electricity crisis paved the way for key climate and clean energy policies and offers unprecedented access to archival material from the Davis administration era It will be a must read for energy policymakers researchers and environmental historians

World Energy Crisis David E. Newton, 2012-11-05 This book provides a historical background for the world's

current energy problems describing how the Industrial Revolution has led us to the impending end of the Age of Fossil Fuels and describes possible solutions for averting a global crisis World Energy Crisis A Reference Handbook provides a thorough investigation of a controversial topic our current global energy situation and what actions should be taken to prevent a crippling fuel supply catastrophe in the future The book presents a historical background for current energy problems that discusses the supply and consumption of various forms of energy at different periods of history covering the evolution of energy use in civilization beginning with human muscle power the successive eras of mechanized industry and transportation and our current dependence on fossil fuels The author explains geopolitical factors regarding energy details controversial new ways of extending the fossil fuel supply including the exploitation of tar sands and oil shale as well as new technologies like hydraulic fracturing and examines the various environmental concerns that are integral to extracting energy from natural resources and the results of consuming them **Renewable Resources for Electric Power** Raphael

Edinger, Sanjay Kaul, 2000-01-30 The liberalization of U S and European electric power markets presents a critical challenge for renewable sources of energy Edinger and Kaul survey the technological state of the art and economic aspects of renewable electricity generation and outline the role of other renewable sources such as solar wind and micro hydroelectric technologies Offering an empirical and theoretical assessment of these technologies and their assets and liabilities the book shows how it is possible to restructure our electric power systems and reorient them toward sustainable and environmentally friendly alternatives International climate conferences such as those in Rio de Janeiro and Kyoto have proclaimed the need for environmentally hospitable technologies A new electricity system based on renewable resources and small scale power technologies is needed badly their economics and other efficiencies over conventional central power generation with fossil fuels is clear Edinger and Kaul assess the rewards and risks associated with renewable technologies and outline a feasible path toward a more environmentally friendly and reasonable use of limited natural resources and the global ecosystem One promising approach for industrialized countries is the decentralization of our current public grid systems This offers an opportunity for developing countries to leapfrog the stage of fossil fuel held responsible now for environmental pollution resource depletion and possibly global climate change The authors present theoretical analyses and empirical evidence to buttress their contentions mainly that electric power systems founded on renewable resources are vital prerequisites if we are to achieve the United Nations target of globally sustained development Kölner geographische Arbeiten ,2004

Sustainable Energy Namir Khan, Willem H. Vanderburg, 2001 This annotated bibliography introduces readers to preventive approaches for making the energy requirements of modern ways of life more sustainable Since a society can neither create nor destroy energy all energy is temporarily borrowed from the biosphere and returned to it in degraded form The activities of a way of life of a society that involve energy flows may be represented as a network for which the biosphere acts as the ultimate source and sink This network and therefore the energy basis for a modern life style will be sustainable

when the biosphere can perform these roles indefinitely The present bibliography regards the preventive approaches related to energy as a capital component of preventive approaches for improving the sustainability of contemporary civilization This book as well as the two companion volumes Sustainable Production and Healthy Cities is the result of a twelve year research project carried out at the Center for Technology and Social Development at the University of Toronto The research findings led to the development of a new conceptual framework and strategy aimed at converting technological and economic growth into development that would gradually become more sustainable

Political Stability and Energy Cooperation in the Mediterranean Antonio Marquina Barrio,Hans Günter Brauch,2000

Providing for Public Interest Energy Research, Development, and Demonstration Projects in California's Competitive Electricity Market Joyce Anne McLaren Loring,1997

Power David Morton,2000

Synerjy ,1996

Aanwinsten van de Centrale Bibliotheek (Queteletfonds) Bibliothèque centrale (Fonds Quetelet),1997

Introduction to Energy in California Peter Asmus,2009 This key reference is a primer on energy in a state that continues to lead the world in finding sustainable solutions to one of the most pressing issues of the twenty first century While much public debate has focused on fossil fuels this clearly written guide provides essential information on a broader range of issues where our energy comes from where future supplies will be found and what new advances are being made in the area of renewable energy sources Making the complex world of energy science and policy accessible to a wide audience Peter Asmus examines the rich human history of California s earliest oil and hydroelectricity developments explains the natural history underpinning the state s cornucopia of energy sources covers such controversial sources as nuclear reactors and liquified natural gas and more Introduction to Energy in California includes Discussion of oil nuclear power coal emerging alternative technologies and renewable sources including geothermal solar wind and hydropower Analysis of the challenges and solutions facing California and the world on energy related issues such as global climate change Compelling case studies of corporations governments communities and individuals working on today s most pressing energy questions Color illustrations useful maps and clear graphics throughout

Integrating Practice, Theory, and Design for Engineers P. K. Raju,2001

Choice ,1997

Enjoying the Track of Term: An Mental Symphony within **Reinventing Electric Utilities Competition Citizen Action And Clean Power**

In a global consumed by screens and the ceaseless chatter of instantaneous transmission, the melodic beauty and mental symphony produced by the written term frequently diminish in to the backdrop, eclipsed by the constant noise and disruptions that permeate our lives. But, set within the pages of **Reinventing Electric Utilities Competition Citizen Action And Clean Power** a marvelous fictional value full of organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this charming masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths with this moving review, we will examine the book is key harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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