

A Field Guide To American Windmills

A Field Guide to American Windmills: A Journey Through Time and Technology

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Introduction:

This a field guide to american windmills isn't just a catalog of spinning blades and towering structures. It's a story—a narrative woven from the threads of ingenuity, innovation, and adaptation that shaped American agriculture, industry, and the very landscape itself. From the humble beginnings of wind-powered pumps on the prairies to the modern turbines dotting our plains and coastlines, this book charts a course through the evolution of American windmills, drawing on historical records, personal experiences, and detailed technical descriptions.

Chapter 1: The Pioneers - Windmills of the 19th Century

My own journey into the world of windmills began in my grandfather's barn in rural Kansas. Dust motes danced in the shafts of sunlight piercing the gloom, illuminating a magnificent old Aermotor windmill, its rusty metal a testament to decades of faithful service. That rusty sentinel sparked a lifelong fascination, culminating in this a field guide to american windmills. The 19th century witnessed a boom in windmill technology, driven by the need to irrigate the arid West. This chapter delves into the iconic designs of the era - the challenge of creating robust, reliable machines capable of withstanding harsh weather conditions and providing consistent water pumping capabilities. We'll examine the ingenious mechanisms employed, from the intricate gearing systems to the sail designs, focusing specifically on the contributions of companies like Aermotor, Dempster, and Witte. This section of a field guide to american windmills will also explore the social and economic impact of these early windmills, showing how they enabled settlement and development across vast expanses of the country.

Chapter 2: The Golden Age - Innovation and Expansion

The early 20th century saw a refinement and expansion of windmill technology. This chapter in a field guide to american windmills discusses the transition from simple water pumping to a broader

range of applications, including grain milling, electricity generation, and even irrigation in more challenging terrains. This period witnessed the development of more sophisticated materials, manufacturing techniques, and aerodynamic designs, leading to higher efficiency and greater reliability. Case studies of specific windmill models and their applications will illustrate the engineering principles at play. For example, we'll analyze the design and functionality of the Baker windmill, known for its robust construction and ability to withstand high winds, highlighting its crucial role in supporting the growth of agriculture in the Great Plains.

Chapter 3: The Modern Era – From Pumps to Power

The latter half of the 20th century marked a significant shift in the use of wind power. While water pumping remained an important application, the focus increasingly shifted towards electricity generation. This section of a field guide to american windmills explores the technological advancements that made large-scale wind power viable. We will analyze the evolution of turbine design, from the early horizontal-axis machines to the more efficient vertical-axis designs, discussing the pivotal role of advancements in materials science and control systems. This chapter includes a detailed comparison of different turbine types, their respective advantages and disadvantages, and their contributions to the growing renewable energy sector.

Chapter 4: Preservation and Restoration

Many historical windmills are now considered landmarks, representing a vital part of America's technological heritage. This chapter of a field guide to american windmills focuses on the preservation and restoration of these iconic structures. We'll examine techniques for repairing and maintaining older windmills, including the identification of common problems, the selection of appropriate materials, and the application of proven restoration methods. Case studies will highlight successful preservation projects, showcasing the efforts being made to protect and share these valuable pieces of American history. This is a crucial section for anyone interested in restoring or preserving an old windmill.

Chapter 5: Windmills in the 21st Century and Beyond

While the romantic image of a lone windmill pumping water might evoke nostalgia, the modern reality is far more complex. This chapter in a field guide to american windmills discusses the role of wind energy in meeting the growing global demand for sustainable power. We will explore the latest advancements in wind turbine technology, including the development of larger, more efficient turbines, smart grids, and energy storage solutions. The integration of wind energy into the national power grid, the economic impact of wind power, and the environmental considerations surrounding its deployment will also be thoroughly examined. This will include a look into emerging technologies and future trends in the field.

Conclusion:

This a field guide to american windmills has sought to provide a comprehensive overview of the history, technology, and cultural significance of windmills in America. From the ingenious early designs that transformed the agricultural landscape to the sophisticated turbines that power our homes and industries today, the story of the American windmill is one of continuous innovation and adaptation. Understanding this history is not just an exercise in nostalgia; it's crucial for shaping a

sustainable energy future that draws upon the lessons learned from past generations. The windmill, in its many forms, remains a powerful symbol of human ingenuity and our ongoing quest for clean, renewable energy.

FAQs:

1. What are the main types of American windmills? American windmills encompass various designs, including those with high towers and long arms, as well as newer, more compact designs.
2. How efficient are historical windmills compared to modern turbines? Historical windmills were far less efficient in power generation than modern turbines.
3. What materials were typically used in the construction of early windmills? Early windmills used wood, steel, and iron.
4. Are there any resources available for restoring old windmills? Yes, many historical societies and restoration groups offer resources and guidance for windmill restoration.
5. What are some of the environmental impacts of wind energy? While wind energy is a clean source of power, environmental concerns include visual impact and potential effects on wildlife.
6. How does wind energy contribute to the overall energy mix in the US? Wind energy is a growing sector within the U.S. energy mix, contributing a significant and increasing share of renewable energy.
7. What is the future of wind energy in the United States? The future of wind energy is bright, with advancements in technology and policies driving further expansion.
8. Where can I find more information on specific windmill models? Numerous historical archives and museums maintain extensive records on various windmill models.
9. What are the economic benefits of wind energy? Wind energy creates jobs, reduces reliance on fossil fuels, and can stimulate local economies.

Related Articles:

1. "Aermotor Windmills: A Century of Innovation": A deep dive into the history and engineering of Aermotor windmills, including detailed specifications and restoration guides.
2. "The Witte Windmill: A Legacy of Durability": Examines the design, construction, and legacy of Witte windmills, focusing on their lasting impact on Western agriculture.
3. "Dempster Windmills and the Transformation of the American West": Explores the role of Dempster windmills in facilitating westward expansion and irrigation.
4. "The Evolution of Wind Turbine Design": A technical overview of wind turbine design advancements from the early 20th century to the present.
5. "Wind Energy and the Smart Grid": Discusses the integration of wind energy into the modern

power grid and the role of smart technologies.

6. "Preserving American Windmills: A Practical Guide": A hands-on guide to restoring and maintaining historical windmills, offering practical advice and techniques.
7. "The Economic Impact of Wind Energy in Rural Communities": Analyzes the economic benefits of wind energy projects on local communities.
8. "Environmental Considerations of Wind Energy Development": A comprehensive assessment of the environmental impacts of wind energy, including mitigation strategies.
9. "The Future of Wind Energy: Technological Advancements and Policy Implications": Explores emerging trends in wind turbine technology and their implications for energy policy.

a field guide to american windmills: *A Field Guide to American Windmills* T. Lindsay Baker, 1985-01-01 Traces the history of the use of windmills in the United States and surveys the various types of American windmills

a field guide to american windmills: *American Windmills* T. Lindsay Baker, 2007 Presents nearly 180 striking images of historic windmills across North America, capturing the wind machines in a wide range of settings and uses and documenting both the construction of commercial machines and the innovative designs of individuals who built their own.

a field guide to american windmills: Agriculture in the Midwest, 1815-1900 R. Douglas Hurt, 2023 R. Douglas Hurt recounts the settlement of the U.S. Midwest between 1815 and the turn of the twentieth century, arguing that this region proved to be the country's garden spot of the country and the nation's heart of agricultural production.

a field guide to american windmills: Still Turning Christopher C. Gillis, 2015-09-16 The Aermotor Windmill Company, which commenced operations in Chicago in 1888, is the nation's sole remaining full-time manufacturer of water-pumping machines. The company's imprint on rural America, particularly across the West, is still visible today in the tens of thousands of its windmills that bring water to the earth's surface. *Still Turning* is the first book to explore the rise of the American windmill through the experience of this important company. Aermotor founder La Verne Noyes and engineer Thomas Perry developed and perfected the all-metal wind pump in the 1880s. Within a decade, the "mathematical windmill" began to dominate the market. Aermotor continued to expand and innovate. The ruggedness and simplicity of the American mechanical windmill has allowed it to outlast many newer water-pumping technologies over the years with minimal maintenance and oversight. Christopher C. Gillis traces this story and more, from the early days of the company to Aermotor's present-day relevance as it continues to produce its iconic windmills. *Still Turning* is a significant contribution not only to the history of wind power but also to the history of American enterprise.

a field guide to american windmills: North American Windmill Manufacturers' Trade Literature T. Lindsay Baker, 1998 This bibliography of historic trade literature on farm and ranch windmills is the first of its kind for any large class of objects mass-produced in North America. It includes catalogs, price and part lists, handbills, folders, posters, and advertising cards held in public collections throughout the United States and abroad. The materials, which date from the 1840s through the 1990s, will be almost impossible to locate without this guide since they do not appear in the Library of Congress on-line catalog. The manufacturers' names are arranged alphabetically in the body of the book. Trade literature for each company or distributor is then arranged chronologically, described, summarized, and assigned location codes. To find information on a specific windmill, one need only look for the model in the index. Windmill enthusiasts, museum curators, scholars of manufacturing and advertising, and collectors of ephemera will relish this

result of more than twenty years of windmill research.

a field guide to american windmills: *Still Turning* Christopher C. Gillis, 2015-09-18 The Aermotor Windmill Company, which commenced operations in Chicago in 1888, is the nation's sole remaining full-time manufacturer of water-pumping machines. The company's imprint on rural America, particularly across the West, is still visible today in the tens of thousands of its windmills that bring water to the earth's surface. *Still Turning* is the first book to explore the rise of the American windmill through the experience of this important company. Aermotor founder La Verne Noyes and engineer Thomas Perry developed and perfected the all-metal wind pump in the 1880s. Within a decade, the "mathematical windmill" began to dominate the market. Aermotor continued to expand and innovate. The ruggedness and simplicity of the American mechanical windmill has allowed it to outlast many newer water-pumping technologies over the years with minimal maintenance and oversight. Christopher C. Gillis traces this story and more, from the early days of the company to Aermotor's present-day relevance as it continues to produce its iconic windmills. *Still Turning* is a significant contribution not only to the history of wind power but also to the history of American enterprise.

a field guide to american windmills: *Energy Abstracts for Policy Analysis*, 1986

a field guide to american windmills: *Power from Wind* Richard Leslie Hills, 1996-09-12 The wind is a fickle source of power. Windspeeds are frequently too low to be of any practical use, so that windpower has generally remained a marginal resource. Since the inception of windpower around 1000 AD, technology has been deployed to obtain the most economical power from wind. The author traces its technical evolution, concentrating on the growth in understanding of wind and charting crucial developments in windmill design. The history of the windmill is focused on North Western Europe, drawing on the origins of the first horizontal windmills in Persia, Tibet and China. Industrial applications such as in textiles, papermaking and mining are examined. Gradually, windmills were improved but were finally eclipsed by steam engines in the nineteenth century due to increased levels of industrialisation. The book concludes with a look at the recent re-emergence of windpower as a viable source of power in the wake of the energy crisis.

a field guide to american windmills: *Wind Energy Technical Information Guide*, 1989

a field guide to american windmills: *Wind Energy Revolution* Christopher C. Gillis, 2023-12-14 It may sound simple. Fashion a set of blades, attach them to a generator, set the machine on top of a tower, and let the wind do the work of creating electricity. Not so. Most of these attempts fail, even with the availability of the latest technologies. In *Wind Energy Revolution*, Christopher C. Gillis Sr. examines the efforts to develop "small" wind generators for use at homes, farms, and ranches following the 1973 Arab Oil Embargo. Wind machines were once featured prominently on farms and homesteads throughout the Midwest of the United States and Canada during the late 1910s through the early 1950s in areas that had no access to overhead electric-power transmission lines. As a result of rural America's connection to the power grid, many of these pioneer wind-electric machines fell "victim" to electrical power lines. Interest in wind energy resurfaced in the early 1970s when energy shortages were created by the Arab Oil Embargo, the rise of environmentalism, and the move toward self-sufficient, off-the-grid living. Early wind-electric machines were dusted off and restored back into service, while several former manufacturers reemerged, and entrepreneurs developed new designs. Political and societal interest in renewable energies—wind and solar—began to wane in the early 1980s and did not return until the late 1990s. Even so, the developments in the 1970s influenced how Americans subsequently viewed and used renewable power. *Wind Energy Revolution* is a first-of-its-kind comprehensive history for historians and anyone interested in wind as a viable renewable resource.

a field guide to american windmills: *Windfall* Robert W. Righter, 2012-09-13 Not long ago, energy experts dismissed wind power as unreliable and capricious. Not anymore. The industry has arrived, and the spinning blades of this new kid on the electric power block offer hope for a partial solution to our energy problems by converting nature's energy into electricity without exposing our planet and its inhabitants to the dangers of heat, pollution, toxicity, or depletion of irreplaceable

natural resources. *Windfall* tells the story of this extraordinary transformation and examines the arguments both for and against wind generation. In *Windfall*, Robert W. Righter explains how wind is transformed into energy and examines the land-use decisions that affect the establishment of new wind farms. The book also discusses the role of tax credits and other government subsidies in the creation of transmission systems between the turbines and end users in cities. Currently the world's fastest-growing source of energy, wind generation has also given rise to backlash. A critical advocate of wind energy whose career as a historian has focused on environmental controversies, Righter addresses the cultural dimensions of resistance to wind energy and makes considered predictions about the directions wind energy may take. His sympathetic treatment of opposing arguments regarding landscape change, unwanted noise, bird deaths, and human medical implications are thought-provoking, as is his recommendation that we place the lion's share of turbines on the Great Plains. Most books on wind energy are technical manuals. Righter's book does not shy away from scientific explanations, but he does not write for engineers. His broad, historically informed vision will appeal to policy makers at the federal, state, and local levels and to anyone interested in a technology increasingly significant to supplying America's energy needs.

a field guide to american windmills: *Windmill Tales* Wyman Meinzer, Coy F. Harris, 2004 In *Windmill Tales*, in ninety-nine beautiful full-color images, photographer Wyman Meinzer shows American windmills as they appear today. Many of them are still working, and others have fallen or are preserved at the American Wind Power Center, but all illustrate the way of life that was made possible by the windmill. Brief reminiscences and stories told by visitors to the American Wind Power Center give the reader a sense of the central importance of windmills in the lives of early pioneers in the West. Together with the photographs they give us a fascinating insight into our history.

a field guide to american windmills: *The Wind at Work* Gretchen Woelfle, 2013-03-01 Explaining how the wind works, what windmills have contributed to the past, and why they offer environmental promise today as a source of clean, renewable energy, this revised and updated edition offers a glimpse into all the current and historical uses for wind power. Featuring new information on wind energy technology and wind farms, new photographs, and 24 wind-related activities—from keeping track of household energy use and conducting science experiments to cooking traditional meals and creating arts and crafts—this handy resource offers kids interested in the science of energy and green technologies an engaging, interactive, and contemporary overview of wind power.

a field guide to american windmills: *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.

a field guide to american windmills: *Wind Energy Basics* Paul Gipe, 1999 Paul Gipe, one of

the world's leading experts on wind power has now created an introductory guide to wind energy systems. This book gives an overview of the burgeoning use of wind energy around the globe, describing and analyzing the most affordable small wind generators, including the new generation of highly practical micro turbines. Wind Energy Basics includes detailed information on planning, purchasing, siting, and installing a wind system, and on integrating wind power with solar photovoltaics for more cost-effective and reliable off-the-grid applications.

a field guide to american windmills: Wind Energy , 1989

a field guide to american windmills: Wind Energy Basics Paul Gipe, 2009-05-05 The availability of clean, renewable power is without question going to be the defining challenge and goal of the 21st century, and wind will lead the way. Internationally acclaimed wind energy expert Paul Gipe is as soberly critical of past energy mistakes as he is convincingly optimistic about the future. The overwhelming challenge of transforming our world from one of fossil carbon to one of clean power seems daunting at best—and paralyzingly impractical at worst. Wind Energy Basics offers a solution. Wind power can realistically not only replace the lion's share of oil-, coal-, and naturalgas- fired electrical plants in the U.S., but also can add enough extra power capacity to allow for most of the cars in the nation to run on electricity. Gipe explains why such a startlingly straightforward solution is eminently doable and can be accomplished much sooner than previously thought—and will have the capacity to resuscitate small and regional economies. Wind Energy Basics offers a how-to for home-based wind applications, with advice on which wind turbines to choose and which to avoid. He guides wind-energy installers through considerations such as renewable investment strategies and gives cautionary tales of wind applications gone wrong. And for the activist, he suggests methods of prodding federal, state, and provincial governments to promote energy independence.

a field guide to american windmills: Barns of New York Cynthia Falk, 2012-05-01 Barns of New York explores and celebrates the agricultural and architectural diversity of the Empire State—from Long Island to Lake Erie, the Southern Tier to the North Country—providing a unique compendium of the vernacular architecture of rural New York. Through descriptions of the appearance and working of representative historic farm buildings, Barns of New York also serves as an authoritative reference for historic preservation efforts across the state. Cynthia G. Falk connects agricultural buildings—both extant examples and those long gone—with the products and processes they made and make possible. Great attention is paid not only to main barns but also to agricultural outbuildings such as chicken coops, smokehouses, and windmills. Falk further emphasizes the types of buildings used to support the cultivation of products specifically associated with the Empire State, including hops, apples, cheese, and maple syrup. Enhanced by more than two hundred contemporary and historic photographs and other images, this book provides historical, cultural, and economic context for understanding the rural landscape. In an appendix are lists of historic farm buildings open to the public at living history museums and historic sites. Through a greater awareness of the buildings found on farms throughout New York, readers will come away with an increased appreciation for the state's rich agricultural and architectural legacy.

a field guide to american windmills: Wind Energy in America Robert W. Righter, 1996 Relates the history of the efforts to capture the power of wind for electricity, from the first European windmills to California's wind farms of the late twentieth century.

a field guide to american windmills: Blades in the Sky T. Lindsay Baker, 1992 No water ever tasted better than when it came up clear and cool from deep in the ground, its flow pulsing to the steady rhythm of the wind-driven pump. . . . Windmill men such as Tex Burdick and others described in Baker's narrative deserve much credit for making life possible in semi-desert rural areas of Texas, New Mexico, and other parts of the West. ?Elmer Kelton, from the foreword During the Great Depression the windmillers of the Burdick & Burdick Company of El Paso, one of the largest windmill distributorships in the United States, crisscrossed the desert Southwest to bring wind power and water to a parched land. Battling blazing sun, dust storms, dizzying heights, and the hazards of cacti and rattlesnakes, they worked seven days a week from sunup to sundown and

counted themselves lucky to earn two dollars a day. From 1923 to 1942, company owner B. H. ?Tex? Burdick, Sr., photographed his men at work, producing a chronicle of the windmillers' lives. Fifty of his remarkable images, paired here with text by historian T. Lindsay Baker, preserve the fascinating story of the industry that made western settlement possible.

a field guide to american windmills: *Wind Energy Comes of Age* Paul Gipe, 1995-04-14 He cites improvements in the performance, reliability, and cost effectiveness of modern wind turbines to support his contention that wind energy has come of age as a commercial technology.

a field guide to american windmills: *Harvest the Wind* Philip Warburg, 2012-04-17 Winds sweeping through the Great Plains once robbed the Farm Belt of its future, stripping away overworked topsoil and creating the dreaded Dust Bowl of the 1930s. Today, those winds are bringing new hope to the declining rural communities of the central United States. Nowhere is wind's promise more palpable than in Cloud County, Kansas, where the soaring turbines of the Meridian Way Wind Farm are boosting incomes and bringing green jobs to a community that has, for decades, watched its children drift away. In *Harvest the Wind*, Philip Warburg brings readers face-to-face with the people behind the green economy-powered resurgence in Cloud County and communities like it across the United States. This corner of Kansas is the first stop on an odyssey that introduces readers to farmers, factory workers, biologists, and high-tech entrepreneurs—all players in a transformative industry that is taking hold across America and around the globe. In this illuminating book, Warburg reveals both the remarkable growth of a breakthrough technology and the formidable challenges it faces. He visits epicenters of anti-wind opposition as well as communities that have embraced wind farms as neighbors. He guides readers through an Iowa turbine assembly plant that is struggling to compete in a global marketplace dominated by European and Chinese manufacturers. And he looks at the thousands of miles that wind-generated power will need to travel to reach American consumers. *Harvest the Wind* is an earthly antidote to loftier treatises on global warming and green energy. By showing us how practical solutions are being implemented at the local level, Warburg offers an inspirational look at how we can all pursue a saner and more sustainable energy future—while at the same time investing in the nation's infrastructure and jumpstarting its economy.

a field guide to american windmills: *Wind Energy For the Rest of Us* Paul Gipe, 2018-05-04

a field guide to american windmills: *Powering the Dream* Alexis Madrigal, 2011-03-29 Few today realize that electric cabs dominated Manhattan's streets in the 1890s; that Boise, Idaho, had a geothermal heating system in 1910; or that the first megawatt turbine in the world was built in 1941 by the son of publishing magnate G. P. Putnam -- a feat that would not be duplicated for another forty years. Likewise, while many remember the oil embargo of the 1970s, few are aware that it led to a corresponding explosion in green-technology research that was only derailed when energy prices later dropped. In other words: We've been here before. Although we may have failed, America has had the chance to put our world on a more sustainable path. Americans have, in fact, been inventing green for more than a century. Half compendium of lost opportunities, half hopeful look toward the future, *Powering the Dream* tells the stories of the brilliant, often irascible inventors who foresaw our current problems, tried to invent cheap and energy renewable solutions, and drew the blueprint for a green future.

a field guide to american windmills: *Wind Energy for Agriculture* Susan Chapman, 1990

a field guide to american windmills: *Portrait of Route 66* T. Lindsay Baker, 2016-09-20 By the time Route 66 received its official numerical designation in 1926, picture postcards had become popular travel souvenirs. At the time, these postcards with colorful images served as advertisements for roadside businesses. While cherished by collectors, these postcard depictions do not always reflect reality. They often present instead a view enhanced for promotional purposes. *Portrait of Route 66* lets us see for the first time the actual photographs from which the postcards were made, and in describing how the production process worked, introduces us to an extraordinary archival collection, adding new history to this iconic road. The Curt Teich Postcard Archives, held at the Lake County Discovery Museum in Wauconda, Illinois, contains one of the nation's largest collections of

Route 66 images, including thousands of job files for postcards produced by Curt Teich and Company of Chicago. T. Lindsay Baker combed these files to choose the best examples of postcards and their accompanying photographs not only to reflect well-known sites along the route but also to demonstrate the relationships between photographs and their resulting postcards. The photographs show the reality of the locations that customers sometimes wanted improved for aesthetic purposes in creating the postcards. Such alterations included removing utility poles or automobile traffic and rendering overcast skies partly cloudy. This book will interest historians of art and design as well as the worldwide audiences of Route 66 aficionados and postcard collectors. For its mining of an invaluable and little-known photographic archive and depiction of high-quality photographs that have not been seen before, *Portrait of Route 66* will be irresistible to all who are interested in American history and culture.

a field guide to american windmills: *Solar Energy Update* , 1986

a field guide to american windmills: *Great Little Museums of the Midwest* Christine Des Garennes, 2002 Featuring more than 70 museums, this is the quintessential guide to quirky, offbeat museums throughout the Midwest. Included are museums in Wisconsin, Minnesota, Indiana, Illinois and Iowa. From the Mustard Museum in Mt. Horeb, Wisconsin to the Super Museum in Metropolis, Illinois, and the Spam Museum in Austin, Minnesota, this guide is sure to amuse and entertain.

a field guide to american windmills: *Earth: The Operators' Manual* Richard B. Alley, 2011-04-18 The book—companion to a PBS series—that proves humans are causing global warming and offers a path to the future. Since the discovery of fire, humans have been energy users and always will be. And this is a good thing—our mastery of energy is what separates us from the rest of the animal kingdom and has allowed us to be the dominant species on the planet. However, this mastery comes with a price: we are changing our environment in a profoundly negative way by heating it up. Using one engaging story after another, coupled with accessible scientific facts, world authority Richard B. Alley explores the fascinating history of energy use by humans over the centuries, gives a doubt-destroying proof that already-high levels of carbon dioxide are causing damaging global warming, and surveys the alternative energy options that are available to exploit right now. These new energy sources might well be the engines for economic growth in the twenty-first century.

a field guide to american windmills: *Powering American Farms* Richard F. Hirsh, 2022-06-14 Challenging traditional scholarship on the New Deal, the book reinterprets the history of rural electrification. It tells the previously unacknowledged story of how private power companies, with allies in land-grant universities, engendered social and technical innovations in the 1920s and early 1930s that enabled growing numbers of farmers to obtain electrical service, well before the creation of Depression-era government programs--

a field guide to american windmills: *Wind Energy* David E. Newton, 2014-11-25 While covering the fascinating history of wind power as a whole, this timely handbook focuses on current technological developments and the promise—and pitfalls—of wind energy as part of the world's energy future. The use of wind power for the generation of electricity holds vast potential for solving the world's energy problems, but numerous technical and social issues must be addressed before that potential can be realized. This handbook will both educate students about current issues related to wind energy and introduce the ways in which mankind has harnessed the wind through the ages. The book covers topics as diverse as early windmills in Europe, the United States, China, and the Middle East; the development of wind farms for electricity generation; and political factors involved in the development of wind energy today. Conventional wind turbine mechanics are explained, as are the technical improvements that drive modern wind turbines and other wind systems. What makes the handbook unique is that it combines hard science with perspective pieces that address topics such as potential environmental damage that can result from modern wind technology, and how recent developments in wind turbine technology hold the promise for considerably reducing the cost of this alternate energy source, making it competitive with conventional fossil fuels. Readers will be engaged by extensive discussion of the economic, political, and ethical issues raised by the

expanding use of wind energy in the United States and elsewhere, and they will be intrigued by a look at what wind power can mean to the planet's energy future.

a field guide to american windmills: *Fundamentals/Wind-Driven Water* J.A.C Kentfield, 1996-12-01 This monograph offers a comprehensive reference work for engineers, researchers and students involved in the design, testing and improvement of wind-driven water pumps. By providing a thorough treatment of the factors which affect the success of pump performance, combined with the fundamentals of machine design, this book distinguishes itself from a simple design manual, and therefore allows the reader to determine the most efficient wind-pump configuration based on their specific needs and resources. The latest international developments in wind-driven water pumping technologies, including a survey of the advantages and disadvantages of the alternative configurations to the more standard designs are discussed. In a field where technical information is limited, *The Fundamentals of Wind-Driven Water Pumps* will serve as a valuable resource for the wind-engineering community. Water-pumping windmills are used in crop irrigation and water supply for livestock in various semi-arid regions

a field guide to american windmills: *The Great Texas Wind Rush* Kate Galbraith, Asher Price, 2013-07-01 From two environmental journalists, "the improbable story of how the oil and gas state became the nation's wind-power leader" (*The Texas Observer*). In the late 1990s, West Texas was full of rundown towns and pumpjacks, aging reminders of the oil rush of an earlier era. Today, the towns are thriving as 300-foot-tall wind turbines tower above those pumpjacks. Wind energy has become Texas's latest boom. How did this dramatic transformation happen in a state that fights federal environmental policies at every turn? In *The Great Texas Wind Rush*, environmental reporters Kate Galbraith and Asher Price tell the compelling story of a group of unlikely dreamers and innovators, politicians and profiteers. The tale spans a generation and more, and it begins with the early wind pioneers, precocious idealists who saw opportunity after the 1970s oil crisis. Operating in an economy accustomed to exploiting natural resources and always looking for the next big thing, their ideas eventually led to surprising partnerships between entrepreneurs and environmentalists, as everyone from Enron executives to T. Boone Pickens, as well as Ann Richards, George W. Bush and Rick Perry, ended up backing the new technology. In this down-to-earth account, the authors explain the policies and science that propelled the "windcatters" to reap the great harvest of Texas wind. They also explore what the future holds for this relentless resource that is changing the face of Texas energy. "Enjoyable to read. . . . I learned something on every page." —Michael Webber, Associate Director, Center for International Energy and Environmental Policy, University of Texas at Austin "A thoughtful, valuable story for anyone who cares about renewable energy or climate change." —The Associated Press

a field guide to american windmills: *American Studies* Jack Salzman, 1990-05-25 This volume supplements the acclaimed three volume set published in 1986 and consists of an annotated listing of American Studies monographs published between 1984 and 1988. There are more than 6,000 descriptive entries in a wide range of categories: anthropology and folklore, art and architecture, history, literature, music, political science, popular culture, psychology, religion, science and technology, and sociology.

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