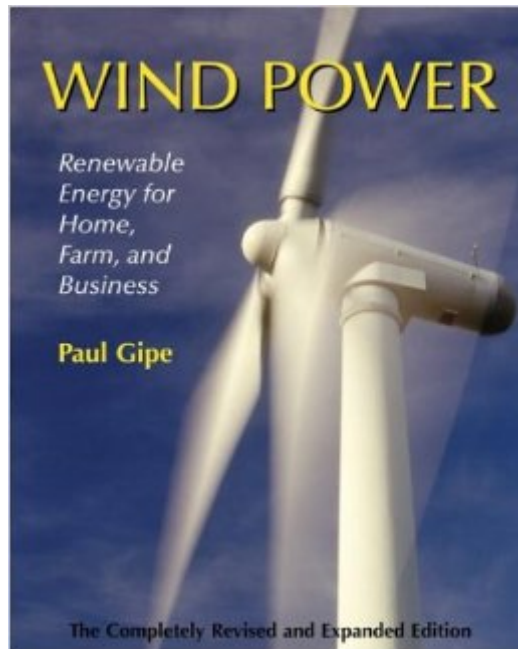


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# Wind Power, Revised Edition: Renewable Energy For Home, Farm, And Business



## Synopsis

In the wake of mass blackouts and energy crises, wind power remains a largely untapped resource of renewable energy. It is a booming worldwide industry whose technology, under the collective wing of aficionados like author Paul Gipe, is coming of age. *Wind Power* guides us through the emergent, sometimes daunting discourse on wind technology, giving frank explanations of how to use wind technology wisely and sound advice on how to avoid common mistakes. Since the mid-1970s, Paul Gipe has played a part in nearly every aspect of wind energy's development—from installing small turbines to promoting wind energy worldwide. As an American proponent of renewable energy, Gipe has earned the acclaim and respect of European energy specialists for years, but his arguments have often fallen on deaf ears at home. Today, the topic of wind power is cropping up everywhere from the beaches of Cape Cod to the Oregon-Washington border, and one wind turbine is capable of producing enough electricity per year to run 200 average American households. Now, Paul Gipe is back to shed light on this increasingly important energy source with a revised edition of *Wind Power*. Over the course of his career, Paul Gipe has been a proponent, participant, observer, and critic of the wind industry. His experience with wind has given rise to two previous books on the subject, *Wind Energy Basics* and *Wind Power for Home and Business*, which have sold over 50,000 copies. *Wind Power for Home and Business* has become a staple for both homeowners and professionals interested in the subject, and now, with energy prices soaring, interest in wind power is hitting an all-time high. With chapters on output and economics, *Wind Power* discloses how much you can expect from each method of wind technology, both in terms of energy and financial savings. The book's updated models, graphics, and weighty appendixes make it an invaluable reference for everyone interested in the emerging trend of wind power and renewable energy. Executive Director of the American Wind Energy Association Randall Swisher has said, "In the last two decades, no one has done more than Paul Gipe to bring wind energy to the public's attention."

## Book Information

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## Customer Reviews

If there is anything you want to know about using the wind for power you will find it within the almost 500 pages of this book. From the history of using wind mills to pump water to the latest giant sized multi megawatt units, it's here. Want to know about the laws of connecting your wind generating unit to the commercial grid, it's here. Want to know the wind generation potential in the island nation of Vanuatu in the South Pacific or in your own state, it's here (along with URL's to tell you where to get more detailed information. Want a list of magazines, books, manufacturers, or software to help you site the tower, yup, it's here. Wind power generation has grown significantly since the price of oil has gone up and the extra added costs of pollution have become apparent. In the last two decades, wind power system designs have been developed, matured and become a lot more practical than they were only a few years ago. This book is actually the most recent generation of Paul Gipe's books. It's the most complete, the most thoroughly developed of anything on the subject.

This reviewer was very pleased with the quality and thoroughness of this title. The level of detail presented herein was very helpful in giving the reader a complete picture of what's really involved in putting up, operating and using a wind-based Renewable Energy (RE) system. Very helpful are the many graphs and charts which provide organization and understanding of the numerous technical aspects of the subject. Some of the often overlooked but very important subjects covered in Wind Power are the: tower installation and tower types, location selection, mounting on RVs, wind turbine design, do-it-yourself wind turbines and how to select a prebuilt wind turbine. All of these subjects and many more are covered in great detail, usually with one or more color photographs to support and demonstrate the author's points. Wind Power is full of common sense safety tips for the homeowner and also points out some hazards that might not be so readily apparent to the untrained eye. Also included is loads of good advice from start to finish with regard to locating, selecting, purchasing, installing, operating and servicing your wind turbine. At nearly five hundred pages, Wind Power leaves no stones unturned in its quest to document all aspects of the booming industry of

wind-based RE systems. As oil prices continue to soar and citizens continue to search for ways to increase their quality of life (and health of their pocketbook), wind-based RE systems will continue to grow in popularity. Wind Power provides the reader with the opportunity to get ahead of the curve and learn important information not readily available now.

This is a very practical book for the wind energy enthusiast, thinking of setting up their own wind generator. It has got plenty of advice on the wind generators to buy and the models to avoid. The book has loads of web references, photographs and safety information. All the information in the book is presented in a clear and concise fashion. You don't need an engineering degree to understand this book. Overall I found this book to be a really good reference and well worth the money. I would recommend it to readers interested in renewable energy.

Unless you already work in the wind industry (and even if you do) this book is invaluable. It contains very detailed information of nearly all aspects of wind power. I've only had this book several weeks and have not yet purchased a wind mill. I especially like the sections on towers, safety and the comparison charts for many models of turbines.

Are you starting from zero knowledge regarding wind energy? Do you want to get up to full speed in a reasonable amount of time? If yes, then this is definitely the book for you. Paul Gipe has captured the essence of not only the fundamental technology but also the industry in general. Once done with this book, you will have the cranial capital to dig deeper into the engineering, the municipal or national scene, or the fundamentals of financing including energy-cash flow analysis. There is plenty of nitty-gritty for whatever side of the technology you prefer to understand, including building your own system. And there are many specific and anecdotal examples to support the many scenarios described. Yours is sure to be one of them. To paraphrase the late Abby Hoffman - \*Buy This Book\* You'll be up to 60 mph (26.8 meters/second) in no time.

Paul Gipe has provided a thoroughly readable text presenting all details necessary for selecting and managing a windfarm. It is clear that he has dedicated his life to this technology. This text provides charts and equations for sizing windmills. It includes numerous recommendations for selecting vendors and contractors for installing a windmill, and lots of maintenance details. What I found particularly interesting was his descriptions of past failures and why they failed. He warns you of danger signals when buying a windmill such as: The maximum capacity for generating electricity

from a windmill is determined by its rotor not its generator. I am still in the process of reading this massive text but the first 200 pages have been enlightening. I highly recommend this text for anyone involved in establishing a windfarm for municipalities and others. This is a must read. If this review was helpful, please add your vote. Thanks.

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