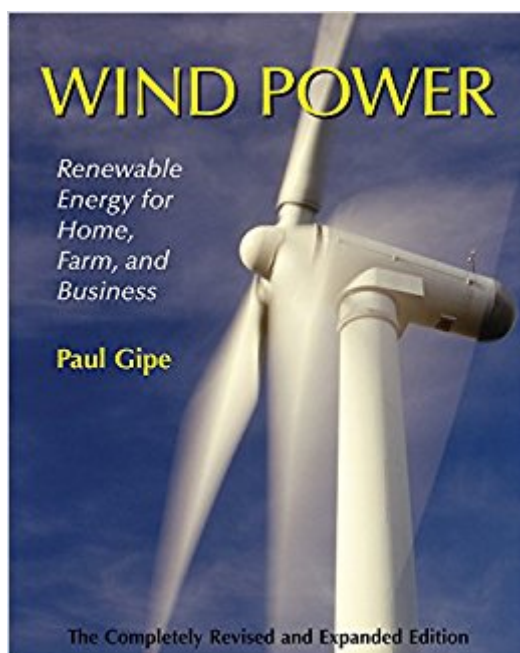


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# Wind Power, Revised Edition: Renewable Energy For Home, Farm, And Business



## 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."

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## Customer Reviews

'THE definitive book on wind energy, Doug Pratt, Technical Editor, Real Goods 'Paul Gipe's Wind Power is a must for everybody who's involved in the wind energy sector - or wants to be involved in the future. The reader will get a comprehensive overview of one of the most important energy technologies to save the world's climate: wind energy' Sven Teske, Renewable Energy Director, Greenpeace 'This is THE definitive book on wind energy, beautifully, logically organized, with a great wealth of pictures, charts, graphs, formulas, cautionary tales, and a lifetime of knowledge' Doug Pratt, Technical Editor, Real Goods 'If you're considering your own machine or investing in a wind company, or if you want to understand wind's rebirth, Wind Power is a must' Paul P Craig, Professor Emeritus of Engineering, University of California at Davis; Chairman, Sierra Club National Energy Committee, 2000-2003 --This text refers to an out of print or unavailable edition of this title.

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

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Despite not being fully up-to-date, this book gives a detailed and useful look into wind turbines. The historical path all the way up till today is an interesting read, and the anecdotes garnered with facts and figures makes you feel very well informed and prepared for diving deeper into the field. The part of installing your own wind turbine was not in my interest, but still gave a good background knowledge, and will most likely be invaluable to someone thinking about installing one for him/herself. Personally, I think Gipe could have left out the American feet, and just stuck to meters - but for an American reader that is probably quite nice to have.

Certainly in this book is covered in detail all that one must know about wind power, except evidently grid-tie systems without batteries as the chapter about it, *Interconnection with the Utility*, has little technical information about this new topic in which the Inverter and its Anti-Islanding requisite to protect the Utility maintenance personnel during outages, makes the wind generator useless when it is more needed, as the inverter must shut down the whole system during that time when the grid is off. In fact most books about wind power has little to say about this topic either, they usually are about systems with batteries; even excellent references as the must-read books by Hugh Piggott, *A Wind Turbine Recipe Book* and *How to Build a Wind Turbine*, and *The Renewable Energy Handbook* by William H. Kemp they do not touch this topic for which I was looking for a solution because in my particular project it is a real need: during outages I have much wind. Because of a long and kind conversation with a Power One engineer, I think I have found a solution for this problem, that I pretend to test in the very near future in my own place, and that I want to share with the wind power community through this great opportunity offered by ; the solution is to install a similar controller (without the bridge rectifier) with dump loads on the AC side of the inverter, i.e.,

240Vac, as that one used on the controller on the AC side of the wind generator to prevent over voltages when there is too much wind. Additionally we must have a small power plant (instead of batteries) with good frequency and voltages to simulate the grid during outages but connected manually, with a corresponding disconnect switch for the grid, a so called transfer switch. I really would appreciate any comment about this problem!!! Edgar

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.

I began reading, hoping to find an inexpensive wind project that I could build myself. This was the wrong book for that idea. It covers the subject in a very matter-of-fact way, on more of a "commercial" level but it helped me get a much better grip on reality. While we have a good site for wind power generation, I determined that it would not be cost-effective for us to develop a project of significant size.

I loved this book. Easy and engaging read. It educates you about all the issues, pros and cons of wind power. The author is an advocate of wind power, but gives you the other side as well. It gives an excellent foundation for the subject. Highly recommended.

Very good condition!

A textbook classic. Bit of heavy reading but thorough.

Very comprehensive review of Wind Power. Practical advice and examples on the Wind Turbine Systems. A great resource if you are thinking about installing a wind turbine. Also an excellent book

if you want to get a good understanding of wind turbine industry and the technical knowledge relating to it.

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