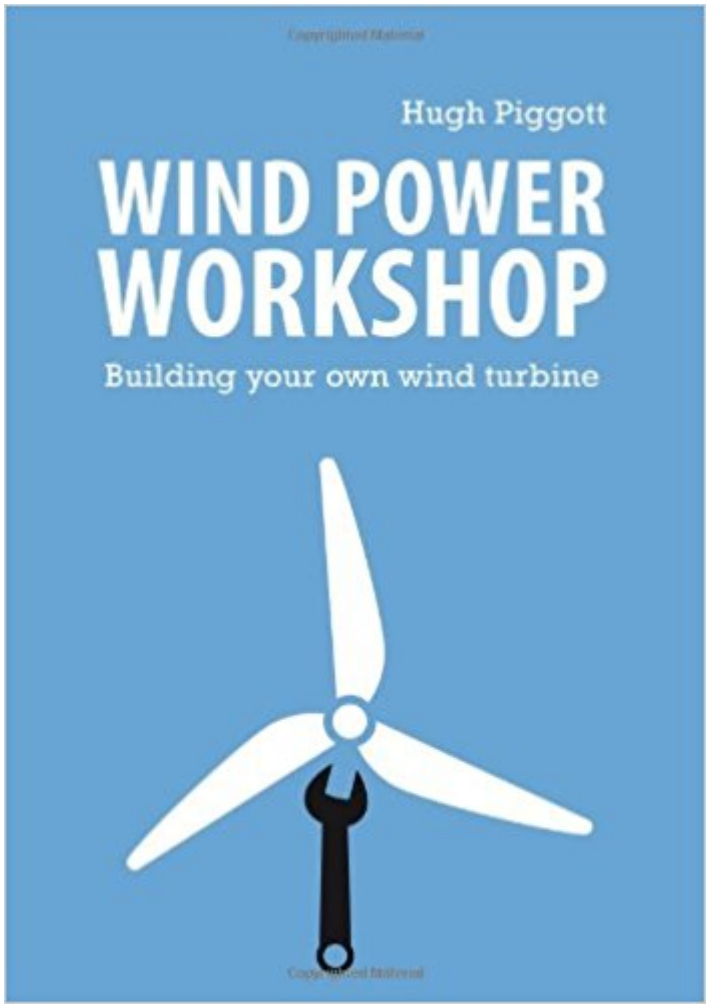
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Wind Power Workshop: Building Your Own Wind Turbine



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Synopsis

This fully revised edition of Wind Power Workshop - the first for ten years - includes HughA's updated thoughts about wind turbine construction, thirty new illustrations (on top of the seventy that appeared in the previous edition) and an expanded and vastly superior layout. The book shows you how to construct aerodynamic efficient wind turbine blades using wood, match and connect the blades to a generator, build mechanical controls to direct and ensure the safety and efficiency of the blades and erect the turbine safely using a guyed tower. Wind Power Workshop helps you understand wind turbine technology without assuming prior knowledge but does assume you have a technical background - either in engineering or electronics. Those without a technical background will need a physics book handy to help them understand terms such as force and turning moments. It also covers generator science, magnets, batteries; as well as supplying you with all the equations you need to correctly size a turbine of your own design. There is a chapter about safety to ensure that readers understand the many risks involved in wind turbine construction. Hugh teaches wind power courses all over the world and his experiences as a teacher inform his work. The focus of the book - and all Hugh's work - is to empower the reader to take control of their energy needs by describing how energy is created and then showing how to build the machines to make it themselves. You will need a work space to make a wind turbine, plenty of tools and a methodical patient approach to the work. As Hugh says in his introduction, This book is written for those who want to build their own windmill, and for those who love to dream. If you have the time, the workshop, the site, and the passion, then you will build a windmill, and enjoy the hard-earned fruits." Wind Power Workshop is suitable for engineering students wishing to learn about wind power; home engineering and woodwork enthusiasts; lovers of self sufficiency; and anyone interested in home power production.

Book Information

Paperback: 208 pages
Publisher: Centre for Alternative Technology; 4th Revised edition edition (January 1, 2011)
Language: English
ISBN-10: 190217562X
ISBN-13: 978-1902175621
Product Dimensions: 6.6 x 0.4 x 9.4 inches
Shipping Weight: 15.5 ounces
Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,331,428 in Books (See Top 100 in Books) #44 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Wind #1399 inÃ Â Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Do-It-Yourself #2407 inÃ Â Books > Crafts, Hobbies & Home > Sustainable Living

Customer Reviews

Reviews of the previous edition: "Every so often books come through that are a refreshing change from the norm. Wind Power Workshop is just such a book." Electronics and Beyond, The Maplin Magazine "The author is a true guru of the art." Positive News

Hugh Piggott has lived off-grid in Scotland since the 1970s. After graduating at Cambridge University (graduate MA) he went to live on the island Scoraig in North West Scotland where he built his own house and kept a smallholding with his wife and two children. He also taught himself to make small wind turbines. Today the whole population of Scoraig (about 100 people) get electricity from Hughs' turbines. In 1999 and 2000 Hugh was chosen as the renewable energy consultant to BBC's Castaway 2000 program. He designed and installed a wind and hydro system which kept the castaways supplied with electricity throughout the year. For the past ten years Hugh has been teaching workshop courses to individuals and companies all over the world.

A very informative book for anyone interested in generating electricity with the wind.

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