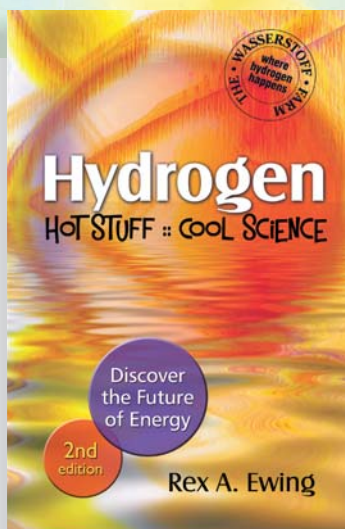
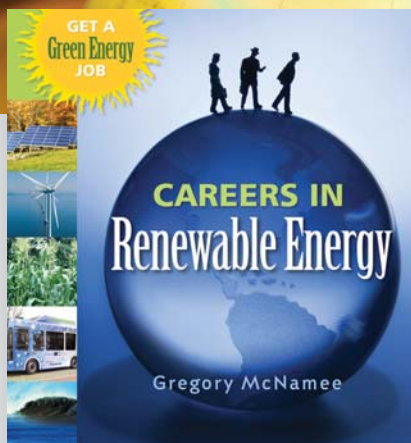
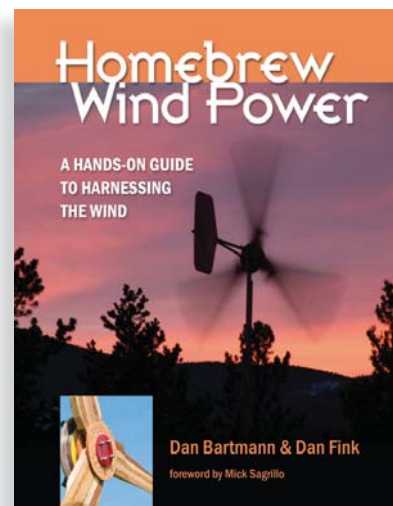
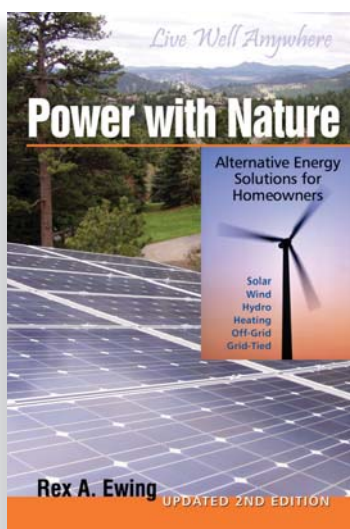
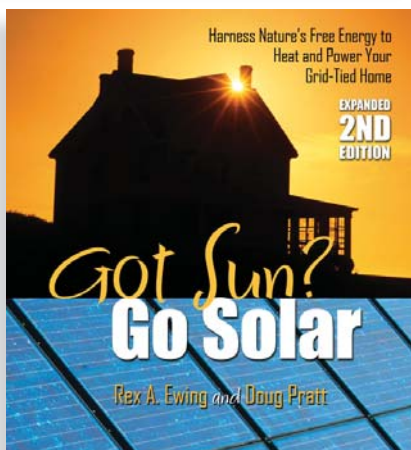


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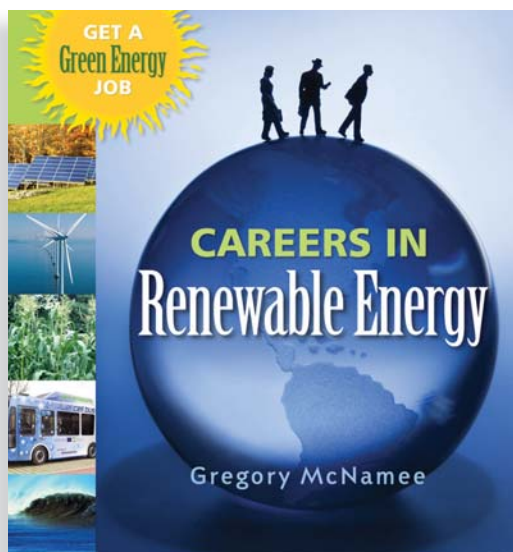
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 Florida Solar Energy Center

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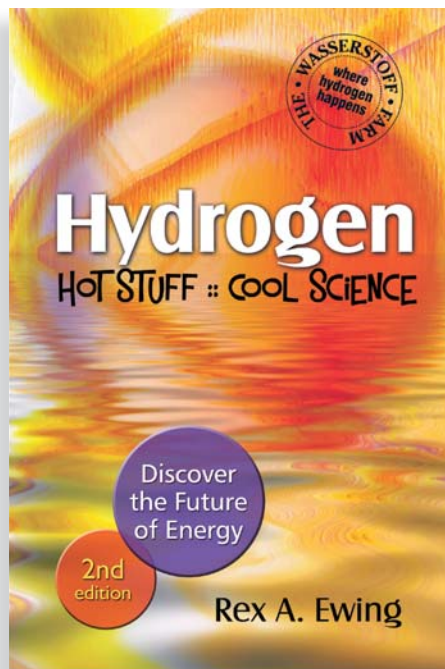
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- ◆ Wind Energy
- ◆ Bioenergy
- ◆ Hydrogen Energy and Fuel Cells
- ◆ Geothermal Energy
- ◆ Hydroelectric Power
- ◆ Marine Energy
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- ◆ Nuclear Electric Power:
 A Nonrenewable Alternative

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- ◆ Ethanol & Methanol Production
- ◆ Nuclear Energy & Hydrogen Production
- ◆ Wind energy & Hydrogen Production
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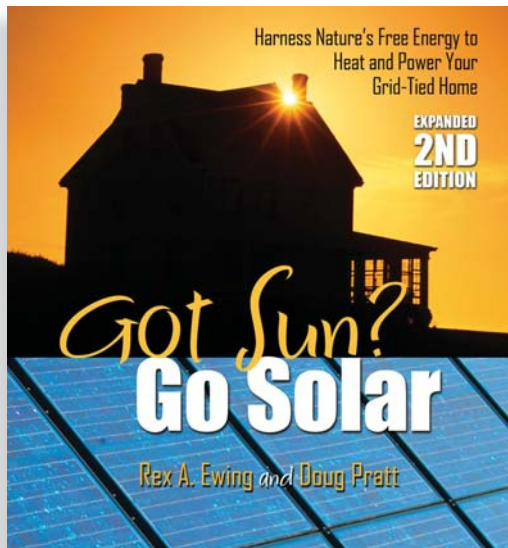
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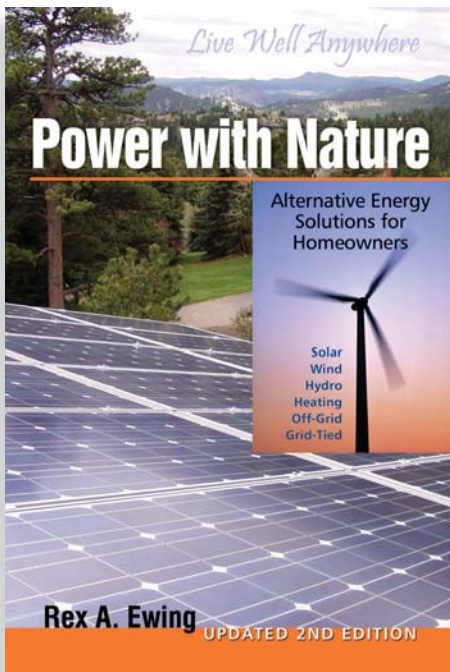
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- ◆ System Sizing
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- ◆ Financial Incentives & Rebates
- ◆ Permits, Paperwork & Financing
- ◆ The Nuts & Bolts: necessary hardware for a high-quality, low-maintenance solar or wind-electric system
- ◆ Who Does Installation?

HEAT WITH NATURE'S FREE ENERGY

- ◆ Using the Sun's Warmth to Heat Homes: passive solar design tips, windows, solar air panels
- ◆ Solar Hot Water Systems
- ◆ Geothermal for Heating & Cooling

Extensive Appendix includes energy reference maps, sizing worksheets, manufacturers, web resources, state energy offices, glossary, index, and more.



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– Library Journal

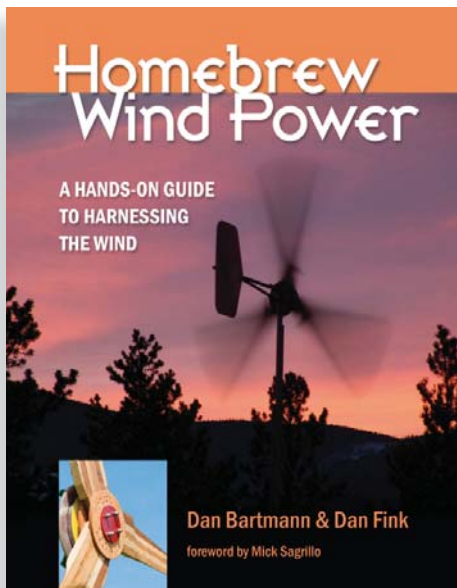
"...loaded with practical information that will help you gain a better understanding of using and living with renewable energy. Very readable!"

– Mark McCray, Ph.D., RMS Electric

AT A GLANCE

- ◆ A Primer Disguised as a Fable
- ◆ Off-Grid Solar PV
- ◆ Small Wind Power
- ◆ Micro-Hydro Systems
- ◆ Utility Grid-Tie Options
- ◆ Sizing Your System
- ◆ Equipment Overview: PV panels, wind turbines, charge controllers, inverters, batteries
- ◆ Putting It All Together Safely
- ◆ Heating of House and Water: solar hot water, geothermal, masonry stoves, wood stoves/boilers, corn stoves, and more
- ◆ Pumping Water
- ◆ Homeowner Profiles

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Homebrew Wind Power: A Hands-On Guide to Harnessing the Wind

DAN BARTMANN & DAN FINK • foreword by Mick Sagrillo

A step-by-step, illustrated guide for building a wind generator in a home or school workshop and then installing it in an off-grid electrical system.

“Dan Bartmann and Dan Fink have done a magnificent job in the writing and production of Homebrew Wind Power. They’ve created a book, written with a vast amount of knowledge and experience in the subject, loaded it with photographs that clearly show the processes involved and enabled any wind energy amateur to successfully build his or her first wind turbine.”

– Larry Barr, publisher and editor-in-chief, *Energy Self-Sufficiency Newsletter*

“A well-crafted blend of theory and practical information for all who want to build a quiet, efficient, and economical wind turbine to achieve greater energy independence.”

– Dan Chiras, PhD, author of green energy books

“Finally, a detailed—some would argue exhaustive—treatment of how to build your own backyard wind turbine.”

– Paul Gipe, author of wind energy books

AT A GLANCE...

- ◆ Intro to Wind Power
- ◆ Renewable Energy 101
- ◆ Power in the Wind
- ◆ Electricity from a Spinning Shaft
- ◆ Furling & Regulation
- ◆ Shop Safety
- ◆ Mold Building
- ◆ Coil Winder
- ◆ Frame, Tail
- ◆ Magnet Rotors, Stator, Rectifiers
- ◆ Alternator Assembly
- ◆ Blade Construction
- ◆ Rotor Assembly
- ◆ Towers Types, Assembly & Raising
- ◆ Failures & Prevention
- ◆ Scaling It Up and Down

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