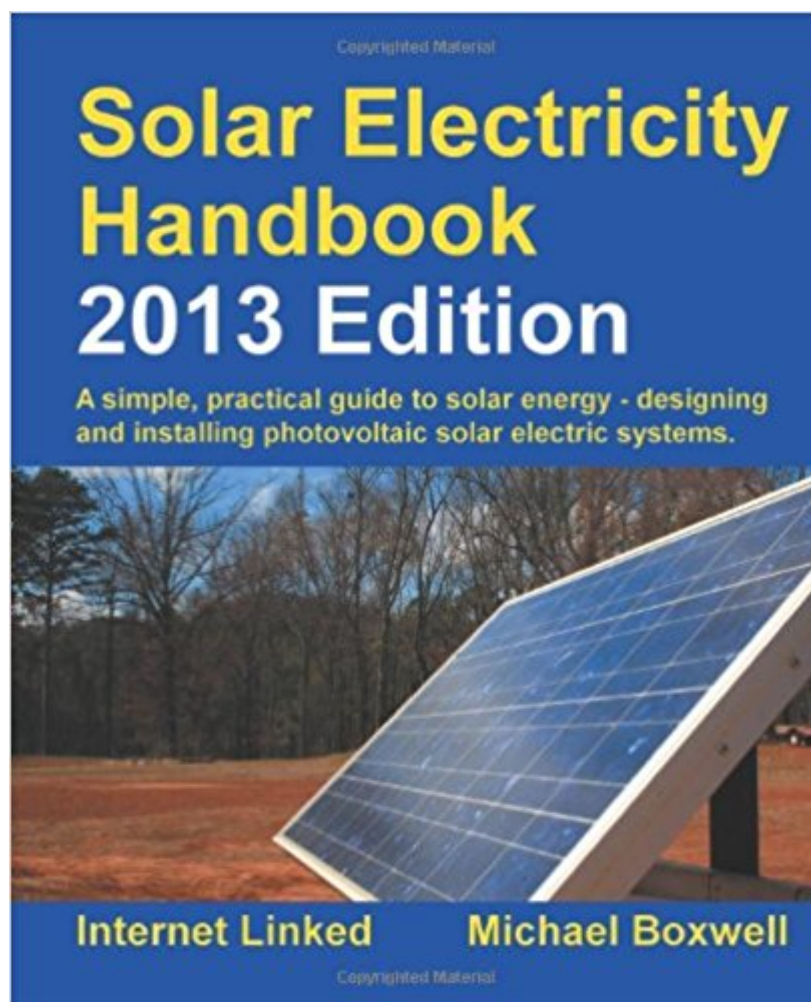




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# **Solar Electricity Handbook - 2013 Edition: A Simple Practical Guide To Solar Energy - Designing And Installing Photovoltaic Solar Electric Systems**





## Synopsis

The 2013 edition of the Solar Electricity Handbook is a practical and straightforward guide to using photovoltaic solar panels to generate electricity. It is the seventh edition of the book, which has been updated yearly since 2009. Assuming no previous knowledge of solar panels, the book explains how solar panels work, how they can be used and explains the steps you need to take to successfully design and install a solar electric system from scratch using photovoltaic solar panels. Accompanying this book is a solar resource website containing lots of useful information, lists of suppliers and on-line solar energy calculators that will simplify the cost analysis and design processes. Why buy the Solar Electricity Handbook? The Handbook is a simple, practical guide to using electric photovoltaic panels. The book is suitable for enthusiastic novices for building professionals and architects learning about photovoltaics. Clear examples, diagrams and example projects are given to demonstrate the true capabilities of these systems. The Handbook is updated yearly, providing a up-to-date reference for anyone planning to use electric photovoltaic technology. It is the most comprehensive book on solar electric systems available today. It is backed up by the most powerful online calculator tools available, to make your design and calculations as straightforward as possible. With comprehensive detail in the book for both North America and Europe, the Handbook provides you with information that is relevant to you and your project - where ever you live.

## Book Information

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## Customer Reviews

Solar Electricity Handbook - 2013 Edition Solar electricity is a wonderful concept. Take free power from the sun and use it to power electrical equipment. No ongoing electricity bills, no reliance on an electricity socket. 'Free' electricity that does not harm the planet. ã ã Generating electricity from sunlight alone is a powerful resource, with applications and benefits throughout the world. But how does it work? What is it suitable for? How much does it cost? How do I install it? ã ã This best selling internet-linked book answers all these questions and shows you how to use the power of the sun to generate electricity yourself. ã ã The website that accompanies this book includes online solar calculators and tools to simplify your solar electricity installation, to ensure that building your solar energy system is as straightforward and successful as possible.

Michael Boxwell is a technical consultant and designer and a former managing director of an electric vehicle supplier in the UK. He is the author of a number of books including the Solar Electricity Handbook, Owning An Electric Car and The Electric Car Guide series of books. He also runs the Reva Electric Car owners club. He is currently working on a number of new eco books, a TV series and a children's book of stories. He is a regular guest on Transport Evolved and This Week In Energy. Michael lives in the United Kingdom and is married with two children.

This books goes into very good detail with explanations on what to expect when using a Solar PV Panel system. It provides tips and sketches on how to assemble and install these systems. Perfect reference to anyone wanting to learn about electricity generated by the Sun. I recommend this handbook to everyone interested in learning about this technical field.

Good clear helpful material for DIY person. Very helpful tables on the internet tie in well with the book. Also a link to see FAQ,s and actually ask questions and get answers. Also reassuring is that the author updates the info very regularly and often in new editions.

I was looking for a way to get oriented to the design and selection of a photovoltaic system for my house, so I purchased this book. It took a bit of time to read it all, but I did and was very happy with the content. At the very least, it prepared me to understand the proposals I received from turn-key system suppliers. In addition to the detailed information included in the book, the author maintains a web site that offers updated and even more detailed information. The one part of the equation that is mostly missing is a section for analysis of the proposals you might receive. In the U.S., suppliers have an unlimited capacity to offer a less than transparent view of the full costs of systems,

particularly when it comes time for the homeowner to sell a solar-equipped home. I suspect an entire book can be written about the various purchase or lease models. The author uses terminology that one might hear on BBC television, so some phrasing might be a bit unusual for U.S. readers, but perhaps you might enjoy the charm. In short, if you like to dig in and learn about these systems, this is a great place to start! I would highly recommend this book to folks with some technical background and interest in the details of a system.

I got this because I went with two different systems and needed to know how the whole thing worked. I am not an electrician by no means but needed to learn the basics so I can understand my solar set-ups should a SHTF scenario arrive. I didn't want a loud and smelly generator nor rotating gasoline for it. So, solar is free. I know I may never be one to tie in and sell back my power but as long as it takes care of my family's needs, that's good enough. But this book teaches you everything and does it in a way that is easy to read and understand. Another cool thing is in the back, they have your state and it reflects what angle on each month is best to put your panels and then they have several pages of items like microwaves or refrigerators etc and how much actual power they require so you know if your system will handle some of your items you want to spend your power on. My sister requires a CPAP machine at night and I bought 2 GoalZero Yeti 400's for it and two 30watt briefcases for it. I wanted to know how long it takes to use it up. We called her CPAP company and told the CSR what we were doing and she suggested getting the cord (about \$65.00) that plugs into the cigarette lighter adapter as it draws less power. She used the heater even and still got almost 5 nights out of one Yeti! So, I started keeping a book of info on things like this so we know later, then I plugged it into the wall after it was completely drained and wrote down how many hours it took to 100% charge it from a 110v wall plug in and so forth even daisy-chaining two of the 30watt briefcases to see how long it will take to charge one. I will also do it charging by USB and the lighter adapter. Anyway, this book I thought was the best for all the easy to read and understand everything on solar electricity! If you are getting into it, go ahead and buy some stuff if you want but make sure you have this reference book at all times. BTW, is the best price for buying either GoalZero products or other solar items but just stay away from anything solar from Harborfreight. I would research what you need at Goalzero's website and then look to buy it here.

This is a must read for the Do it yourself project. I am just starting some small solar projects and this book put me at ease working with a variety of options. If you are dabbling in the realm of solar electricity this is a very good read.

A friend told me that this book was the bible of solar at home technology. He is more versed in this matter but even for me the book is an easy read. It takes some time to decide which application that you may want for your home only because it breaks down the applications to the most understandable needs of the consumer. It is perfect to help a lay individual decide exactly what you will need for the application that you desire. I recommend the book.

This book presents the many considerations involved in selecting and siting a solar panel system. Solar panel siting and configuration is quite complex but the author also points out the relative significance of each consideration. Most of us will not be able to fully optimize our installation to utilize the maximum solar potential of the components, due to lot size limitations, shading, roof layout, etc., but this manual presents each issue and it's importance to the overall goal, to generate electricity. Reading this book will leave one longing for a bigger lot, better south facing exposure and a ground mounted system that allows adjustment, maybe supplying electricity for the whole neighborhood.

After the Super Storm SANDY and being with out power for more then a week I needed to find out about other ways to supply power for my CPAP machine and a few LED lights. This book gave me some much need information to find other ways beside a generator.

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