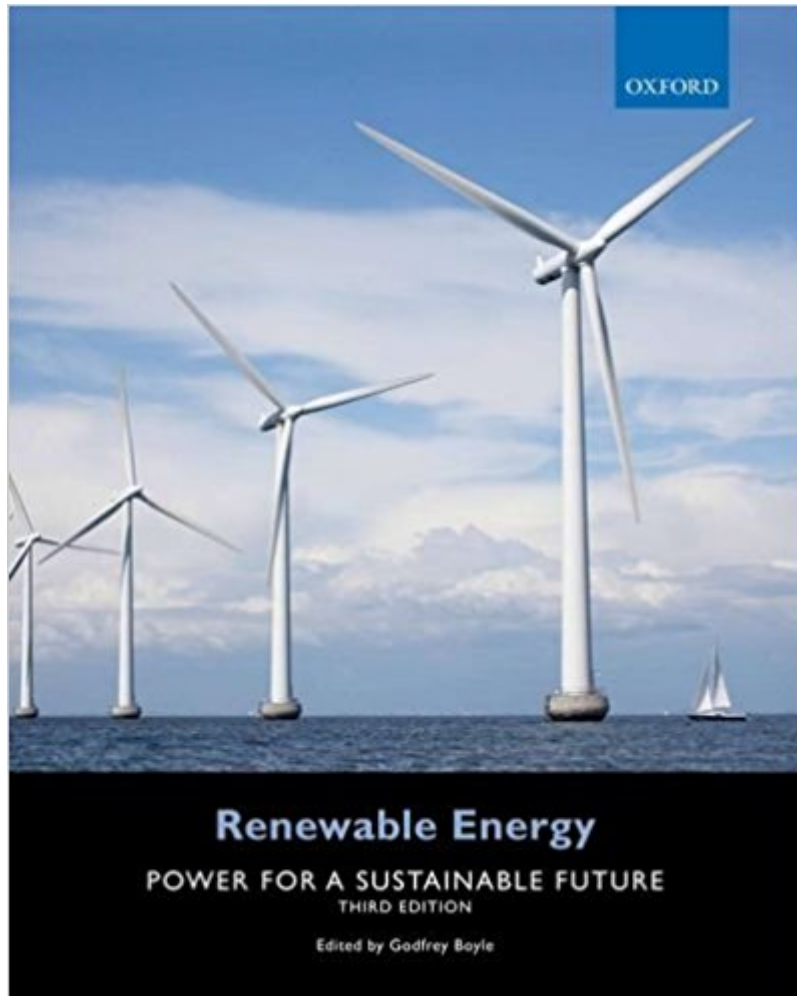




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Renewable Energy: Power For A Sustainable Future



Synopsis

The provision of sustainable energy supplies for an expanding and increasingly productive world is one of the major issues facing civilization today. *Renewable Energy: Power for a Sustainable Future*, Third Edition, examines both the practical and economic potential of the renewable energy sources to meet this challenge. The underlying physical and technological principles behind deriving power from direct solar (solar thermal and photovoltaics), indirect solar (biomass, hydro, wind, and wave) and non-solar (tidal and geothermal) energy sources are explained, within the context of their environmental impacts, their economics, and their future prospects. Together with its companion volume, *Energy Systems and Sustainability*, Second Edition (OUP, 2012, 9780199593743), this book provides both perspective and detail on the relative merits and state of progress of technologies for utilizing the various "renewables." The analysis considers emissions, sustainability, cost implications, and energy security, as political and economic pressures move society towards a low-carbon future. From an overview of basic energy conversion processes to a discussion of the individual renewable sources to a concluding examination of the prospects for their integration into national and international networks, *Renewable Energy: Power for a Sustainable Future*, Third Edition, provides a valuable insight into prospects for the renewables.

FEATURES

- Covers all principal sources of renewable energy currently being exploited
- Uses an interdisciplinary approach in considering economic, social, environmental, and policy issues
- Rich pedagogy including detailed color illustrations and tables of data

COMPANION WEBSITE

(www.oup.com/uk/orc/bin/9780199545339)

- For students: Self-assessment questions and links to further information and up-to-date energy statistics
- For instructors: Figures from the book in electronic format (available to registered adopters of the book)

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Customer Reviews

Review from previous edition: "This is an excellent introductory text which deserves the widest readership". --Book Review 2004"This is an outstanding undergraduate textbook which deserves to become the standard text. I can only urge all those who are teaching courses in the field and all students, formal or otherwise, to read and treasure this book". --Professor Robert Hill, Times Higher Education Supplement, review of the first edition of Renewable Energy."It is high time that good textbooks on the subject become available on the market. Renewable Energy: Power for a Sustainable Future, is thus a timely and welcome addition to the existing literature on the subject...Godfrey Boyle and his team of authors have, in my view, managed to produce an outstanding textbook in which a wealth of information, including an extensive amount of data, is presented in a lucid and comprehensible form." --The Journal of Energy Literature, March 1997"It is readily accessible to readers with a wide range of interests and abilities because the complex scientific explanations are presented separately from the main text ... the authors have presented the questions that must be considered. The book contains a wealth of information and is highly recommended for anyone with an interest in renewable energy technologies and their possible role in our future." --Nicola Pearsall, Chemistry and Industry, October 1996 25/03/1997"...an excellent and timely primer...the book strikes an admirable balance between making the principles underlying the renewables as understandable as possible and endeavouring not to oversimplify important technological and economic aspects." --Resurgence, April 1997"This book has been produced by a large, expert course team who have carefully researched the area and presented much up to date information. The book is very user-friendly, having many valuable figures, tables and boxes. There are plentiful suggestions for further reading, and students are guided towards key papers in a range of journals.' --Paul Phillips, Education in Chemistry, May 1997"This is an excellent text, covering all the actual and potential sources of renewable energy. The writing is clear and the many excellent diagrams and illustrations complement the written word. Where the treatment is necessarily theoretical the level is appropriate and the argument laid out in separate text. This book will be highly relevant to any undergraduate studying this important field." --Aslib Book Guide, vol.61, no.10, October 1996

Godfrey Boyle is Professor of Renewable Energy in The Open University's MCT Faculty. His main research interests are in solar and wind power, energy systems modelling, and energy policy, and he has chaired various Open University modules on renewable and sustainable energy. He is also a visiting professor at The Energy and Resources Institute (TERI) University in New Delhi, India, a Fellow of the Institution of Engineering and Technology (IET), and a Trustee of the UK National Energy Foundation.

Excellent book. While reads like a textbook, the information is accurate, up to date, and complete. Lots of illustrations and diagrams to make the material easier to understand. Moderate understanding of math needed to do the calculations, but if all you're looking for is a review of alternative energy and its place in the world, this will be great for you. My professor used this book as a textbook for our Renewable Energy in the Pacific Northwest class. I won't be returning it.

My teacher mumbles constantly and looks like he had hit a small child with his car thirty years ago and told nobody about it and now its eating him alive. Without this I probably would have failed his course. 10/10

It's all about UK. I don't recommend to use this book as a course material in the US.

may want to retrain the people inspecting the textbook returns because a large chunk of pages fell out the the textbook I just received

Great

Is a nice book. Has several and updated information about renewables. Is UK centric but also explain world situation. Is so easy to understand, even to people with low knowledge in power engineering. As a Mechanical engineer, I could say is a great book to get a global knowledge about renewables. Full Color book, several topics, writers, pictures. Recommended book.

It was not in color and the pages are in black and white. But it's much less expensive than the colored hard cover copy. I totally recommend it.

Strongly recommended reading, it is actual regarding energy projects been built world wide,

accurated and technical accesible even for non engineers.

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