



Renewable Energy, Fourth Edition: Physics, Engineering, Environmental Impacts, Economics and Planning

By Bent Sørensen

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Renewable Energy, Fourth Edition: Physics, Engineering, Environmental Impacts, Economics and Planning By Bent Sørensen

This volume is a true shelf reference, providing a thorough overview of the entire renewable energy sphere, while still functioning as a go-to information source for professionals and students when they need answers about a specific technical issue. Crafted over the last 15 years into a problem-solving tool for engineers, researchers, consultants and planners currently working in the field, as well as a detailed map of the renewables universe for those looking to expand into new technological specialties, Renewable Energy by Sørensen offers the most comprehensive coverage of the subject available.

The book has been structured around three parts in order to assist readers in focusing on the issues that impact them the most for a given project or question. PART I covers the basic scientific principles behind all major renewable energy resources, such as solar, wind and biomass. PART II provides in-depth information about how these raw renewable sources can actually be converted into useful forms, transmitted into the grid and stored for future utilization. Finally, PART III undertakes the aspects of energy planning, environmental impacts and socio-economic issues on regional and global levels.

In this fourth edition update, new material includes expanded coverage of biofuels, solar conversion, biomass and fuel cells, storage and transmission, and a new chapter on integrated technologies to introduce the hybrid systems now being explored. New surveys and the most recent research findings are included throughout.

- New, thoroughly updated fourth edition of the authoritative field guide to the entire Renewable Energy universe
- The only books to scientific principles and implementation methods, technologies and socio-economics, environmental impacts and cutting-edge advances, all in one volume
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Editorial Review

Review

"This book is written for scholars and research students, going well beyond more popular texts and covering in detail the physics, engineering, environmental impacts and socioeconomics of all renewable energy sources. It includes many hundreds of references.... It is suitable as a textbook at the undergraduate and graduate level for scientists and engineers, and could also be used by economists and planners. For teachers, there are mini projects and exercises after each Part....the text is clear and the units are still SI."--**AIE's EnergyNews, December 2011, Volume 29, No. 4, page 107**

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About the Author

Professor Emeritus at the Department of People and Technology, and a professor of physics at the Institute of Mathematics and Physics, both at Roskilde University, Denmark. He is also an independent consultant at Novator Advanced Technology Consulting. Bent Sørensen's research is cross-disciplinary and has resulted in nearly a thousand scientific articles and some 30 books, including foundation work in economic theory (the scenario method, life-cycle analysis) and in energy research (renewable energy resources, technology and applications).

Dr. Sørensen is one of the world's leading specialists in renewable energy. He has five decades of experience in researching the field, and has published hundreds of monographs, articles in scientific journals, technical reports, and conference contributions. He has received several awards and has been knighted by Her Majesty Queen Margrethe of Denmark.

He has worked at universities in Japan, France, Denmark, Australia and the United States (Berkeley and Yale), has been a consultant to governments and international organizations, a lead author in the IPCC climate assessment.

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