



Renewable Energy

By Martin Kaltschmitt

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The utilisation of renewable energies is not at all new; in the history of mankind renewable energies have for a long time been the primary possibility of generating energy. This only changed with industrial revolution when lignite and hard coal became increasingly more important. Later on, also crude oil gained importance. Offering the advantages of easy transportation and processing also as a raw material, crude oil has become one of the prime energy carriers applied today. Moreover, natural gas used for space heating and power provision as well as a transportation fuel has become increasingly important, as it is abundantly available and only requires low investments in terms of energy conversion facilities. As fossil energy carriers were increasingly used for energy generation, at least by the industrialised countries, the application of renewable energies decreased in absolute and relative terms; besides a few exceptions, renewable energies are of secondary importance with regard to overall energy generation.

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Editorial Review

Review

From the reviews:

"This translation of a book originally published in German discusses and analyzes the basics of solar, wind, photovoltaic, geothermal, and water-based energy (including ocean energy). ... this well-illustrated work is full of valuable information. ... Many tables, charts, and drawings are included. Authors Kaltschmitt, Streicher, and Wiese are listed in the book as editors; they have compiled a large amount of nearly current technical literature in a well-organized format. Summing Up: Recommended. Upper-division undergraduates through professionals." (J. C. Comer, CHOICE, Vol. 45 (6), 2008)

From the Back Cover

This book presents the physical and technical principles of promising ways of utilising renewable energies. In this context, firstly the main characteristics of the available renewable energy streams are outlined. Subsequently, the book presents the technologies of heat provision from passive and active solar systems, ambient air, shallow geothermal energy as well as energy from deep geothermal sources. In the preceding chapters the book addresses the processes of electricity generation from solar radiation (photovoltaic and solar thermal power plant technologies), wind energy, and hydropower. In addition, a brief discussions of harnessing ocean energies is included.

The authors provide the important data and parameter sets for the major possibilities of renewable energies utilization which allow an economic and environmental assessment. Such an assessment enables us to judge the chances and limits of the multiple options utilising renewable energy sources.

Users Review

From reader reviews:

Holly Taylor:

Nowadays reading books are more than want or need but also turn into a life style. This reading behavior give you lot of advantages. The huge benefits you got of course the knowledge the actual information inside the book in which improve your knowledge and information. The information you get based on what kind of e-book you read, if you want attract knowledge just go with schooling books but if you want sense happy read one together with theme for entertaining for example comic or novel. The Renewable Energy is kind of guide which is giving the reader capricious experience.

Julia Hale:

A lot of people always spent all their free time to vacation or even go to the outside with them loved ones or their friend. Do you realize? Many a lot of people spent many people free time just watching TV, or playing

video games all day long. In order to try to find a new activity that's look different you can read a new book. It is really fun for you personally. If you enjoy the book that you simply read you can spent 24 hours a day to reading a reserve. The book Renewable Energy it is extremely good to read. There are a lot of those who recommended this book. They were enjoying reading this book. Should you did not have enough space to develop this book you can buy the e-book. You can m0ore easily to read this book out of your smart phone. The price is not to cover but this book offers high quality.

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