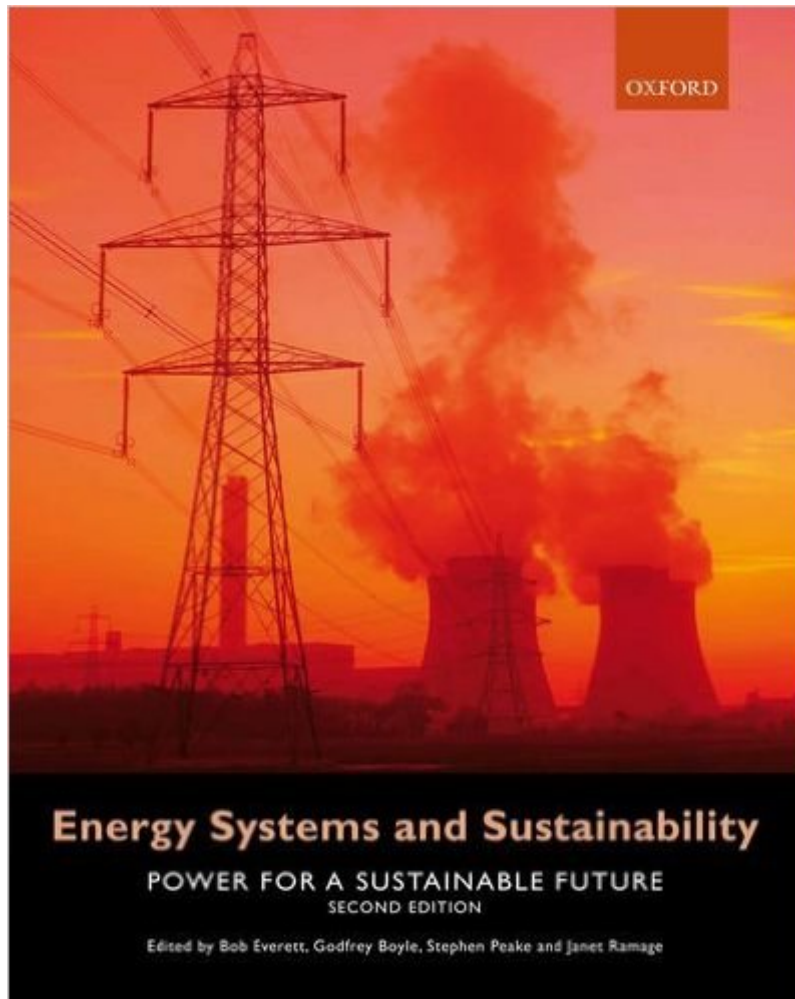


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Energy Systems And Sustainability: Power For A Sustainable Future



Synopsis

Interdisciplinary in its approach and global in its perspective, *Energy Systems and Sustainability: Power for a Sustainable Future, Second Edition*, provides a contemporary exploration of the economic, social, environmental, and policy issues raised by current systems of energy use. Emphasizing the important issue of sustainability, it analyzes the historical evolution of the world's energy systems, the principles underlying their use, and their present status and future prospects. Beginning with a survey of basic energy concepts, the book describes the magnitude and patterns of human energy needs at various levels. It moves on to an overview of the fossil and nuclear-fuelled energy that, together with hydroelectric power and traditional biofuels, supply most of the world's commercial energy needs. Sections on economics describe the basic methods through which the monetary costs of energy are calculated, also considering the "external" costs of energy production. Finally, the book looks at the sustainability issues associated with both fossil- and nuclear-fuel use--and considers the technological advancements and social developments that might solve these problems. Providing a truly interdisciplinary approach, *Energy Systems and Sustainability: Power for a Sustainable Future, Second Edition*, is ideal for undergraduate engineering students and undergraduates studying policy making.

~~ FEATURES ~~* The only text to provide a fresh, contemporary perspective on energy and sustainability for an undergraduate audience* Provides extensive coverage of both fossil fuels and nuclear power, both in the context of an increasing use of renewable energy* Engaging boxes throughout the text present clear explanations of key technologies, underlying physics, and other more advanced topics

~~ COMPANION WEBSITE (www.oup.com/uk/orc/bin/9780199593743) ~~* Resources for Students: Weblinks to sources of further information and up-to-date energy statistics and self-assessment questions linked to topics in the book* Resources for Instructors (available to adopting instructors): Downloadable figures from the book

Book Information

Paperback: 672 pages

Publisher: Oxford University Press; 2 edition (January 26, 2012)

Language: English

ISBN-10: 0199593744

ISBN-13: 978-0199593743

Product Dimensions: 10.4 x 1.4 x 8.2 inches

Shipping Weight: 4.1 pounds (View shipping rates and policies)

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Best Sellers Rank: #312,355 in Books (See Top 100 in Books) #119 in [Books > Business & Money > Industries > Energy & Mining > Oil & Energy](#) #333 in [Books > Textbooks > Science & Mathematics > Environmental Studies](#) #471 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction](#)

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