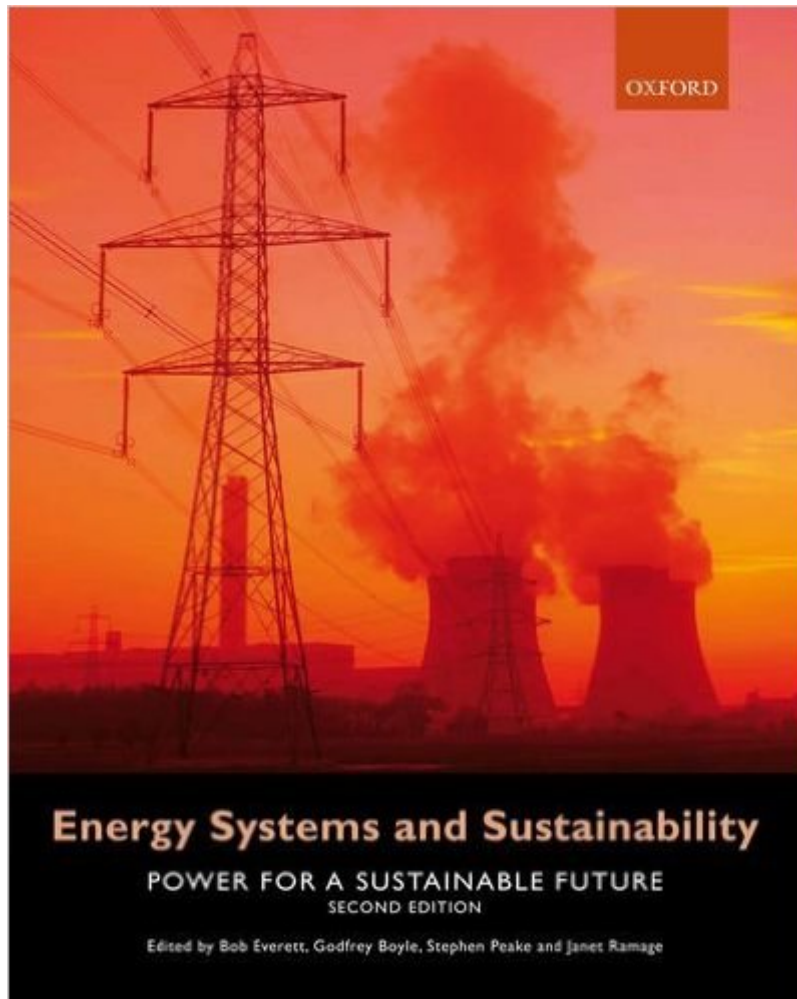


The book was found

# 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](http://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)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

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

## Customer Reviews

Delivered as expected

[Download to continue reading...](#)

Energy Systems and Sustainability: Power for a Sustainable Future Low Energy Low Carbon Architecture: Recent Advances & Future Directions (Sustainable Energy Developments) Renewable Energy: Power for a Sustainable Future, Second Edition The Renewable Energy Handbook: A Guide to Rural Energy Independence, Off-Grid and Sustainable Living Construction Materials, Methods and Techniques: Building for a Sustainable Future (Go Green with Renewable Energy Resources) Renewable Energy Made Easy: Free Energy from Solar, Wind, Hydropower, and Other Alternative Energy Sources Beginning Power BI with Excel 2013: Self-Service Business Intelligence Using Power Pivot, Power View, Power Query, and Power Map Power Pivot and Power BI: The Excel User's Guide to DAX, Power Query, Power BI & Power Pivot in Excel 2010-2016 Energy Accounts: Architectural Representations of Energy, Climate, and the Future Cape Wind: Money, Celebrity, Energy, Class, Politics, and the Battle for Our Energy Future Introduction to Hydro Energy Systems: Basics, Technology and Operation (Green Energy and Technology) The Arid Lands: History, Power, Knowledge (History for a Sustainable Future) Re-engineering for Sustainable Industrial Production: Proceedings of the OE/IFIP/IEEE International Conference on Integrated and Sustainable ... in Information and Communication Technology) Energy from the Sun: Solar Power (Next Generation Energy) The Mystery of the Shemitah: The 3,000-Year-Old Mystery That Holds the Secret of America's Future, the World's Future, and Your Future! The Mystery of Shemitah: The 3,000-Year-Old Mystery That Holds the Secret of America's Future, the World's Future, and Your Future The Mystery of the Shemitah With DVD: The 3,000-Year-Old Mystery That Holds the Secret of America's Future, the World's Future, and Your Future! The Power Surge: Energy, Opportunity, and the Battle for America's Future Prefabulous and Sustainable: Building and Customizing an Affordable, Energy-Efficient Home The Passivhaus Handbook: A Practical Guide to Constructing and Retrofitting Buildings for Ultra-Low Energy Performance (Sustainable Building)

[Dmca](#)