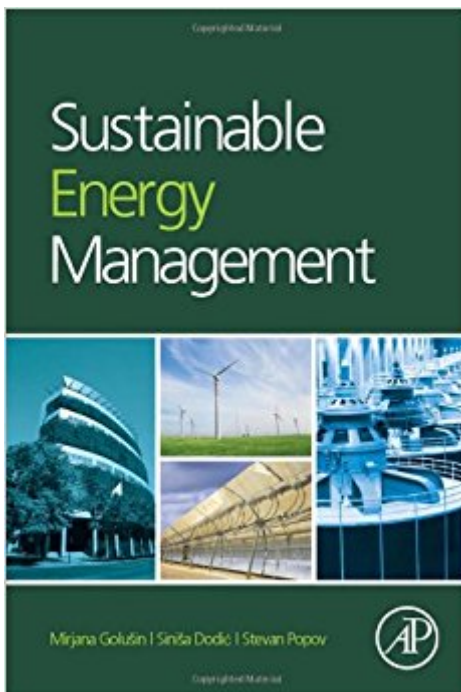


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Sustainable Energy Management



Synopsis

While the last few decades have witnessed incredible leaps forward in the technology of energy production, technological innovation can only be as transformative as its implementation and management allows. The burgeoning fields of renewable, efficient and sustainable energy have moved past experimentation toward realization, necessitating the transition to more sustainable energy management practices. Energy Management is a collective term for all the systematic practices to minimize and control both the quantity and cost of energy used in providing a service. This new book reports from the forefront of the energy struggle in the developing world, offering a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authors'™ guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world. Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costs! Features case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation Includes software on a companion website to make calculating efficiency gains quick and simple

Book Information

Hardcover: 384 pages

Publisher: Academic Press; 1 edition (January 22, 2013)

Language: English

ISBN-10: 0124159788

ISBN-13: 978-0124159785

Product Dimensions: 6.1 x 1.1 x 9 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #314,722 in Books (See Top 100 in Books) #72 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable #508

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"Its goal is to teach corporations how to manage their energy use in order to meet their own energy needs without compromising the ability of future generations to do soâ [The authors identify the key factors for success as strategic planning, efficient operations, technological upgrades, training, and global cooperation."--Reference & Research Book News, October 2013

A holistic guide to implementing sustainable energy management practices, from improving energy efficiency to utilizing renewable resources, to minimizing risk in power plants. Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costsFeatures case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation Includes software on a companion website to make calculating efficiency gains quick and simple This book offers a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authorsâ™ guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world. Related Titles Sioshansi, Smart Grid, 978-0-12-386452-9 Dincer and Rosen, Exergy, 978-0-08-044529-8 Sorensen, Renewable Energy, Fourth Edition, 978-0-12-375025-9

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