



Power Generation Technologies

By Paul Breeze

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The new edition of *Power Generation Technologies* is a concise and readable guide that provides an introduction to the full spectrum of currently available power generation options, from traditional fossil fuels and the better established alternatives such as wind and solar power, to emerging renewables such as biomass and geothermal energy. Technology solutions such as combined heat and power and distributed generation are also explored. However, this book is more than just an account of the technologies – for each method the author explores the economic and environmental costs and risk factors. Each technology is covered using the same basic criteria so that comparisons between technologies can be made more easily. Those involved in planning and delivering energy – including engineers, managers and policy makers – will find in this book a guide through the minefield of maintaining a reliable power supply, meeting targets on greenhouse gas emissions, and addressing economic and social objectives.

- Provides a unique comparison of a wide range of power generation technologies from oil, coal, nuclear and natural gas, to geothermal, wind, solar, and bioenergy
- Hundreds of diagrams demystify how each technology functions in practice
- Evaluates the economic and environmental viability of each power generation system covered
- New chapters covering fast-advancing renewable and alternative power sources such as municipal waste and concentrating solar plants
- Fresh focus the evolution of traditional technologies such as natural gas and "clean coal"
- Expanded coverage of distributed power generation and CHP (combined heat and power) technologies

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Editorial Review

Review

"The author does an excellent job of explaining how the different technologies work, including an objective view of their pros and cons.

Provides an excellent description of the major power generation technologies used in the world today...it provides the reader with a solid, basic understanding of how these technologies work and where they are headed. I recommend this well-organized book to anyone wishing to quickly gain a broad understanding of the many power plant technologies of the 21st century." --**Chuck Kutscher, National Renewable Energy Laboratory**

"This book on power generation technologies provides a concise and quick read describing a full range of various power generation technologies available today...

The author provides good technical descriptions of the fundamental operating principles of each power generation technique, variants of the basic technique, such as how various types of fuel cells operate, their efficiency, comparison to competing technologies, environmental and cost considerations...

Anyone involved in planning and delivering energy, or those interested in energy technologies, will find this book very useful for quickly gaining a basic knowledge about energy-producing technologies and learning about the key cost figures, associated risks, and advantages and limitations of each technology." --**IEEE Electrical Insulation Magazine, August 2006**

From the Back Cover

- Provides a unique comparison of a wide range of power generation technologies – conventional, nuclear and renewable
- Describes the workings and environmental impact of each technology
- Evaluates the economic viability of each different power generation system

Paul Breeze provides a concise and readable description of the spectrum of different power generation technologies available today, from traditional fossil fuels and the better established renewables such as wind and solar power, to emerging renewables such as biomass, wave and tidal stream energy. Technology solutions such as combined heat and power, and distributed generation are also explored.

However, **Power Generation Technologies** is more than just an account of the technologies – for each method the author explores the economic and environmental costs and risk factors.

Those involved in planning and delivering energy – including engineers, managers and policy makers – will find in this book a guide through the minefield of maintaining a reliable power supply, meeting targets on greenhouse gas emissions, and addressing economic and social objectives.

About the Author

Paul Breeze is a journalist and freelance Science and Technology writer and consultant in the UK who has specialized in power generation technology for the past 30 years. In addition to writing *Power Generation Technologies*, Second Edition, he has contributed to journals and newspapers such as *The Financial Times* and *The Economist* and has written a range of technical management reports covering all aspects of power

generation, transmission, and distribution.

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Patricia Gross:

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