



Biogas from Waste and Renewable Resources: An Introduction

By Dieter Deublein, Angelika Steinhauser

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The leading book on the market just got better: With its unique approach covering all aspects of setting up and running a biogas plant, this new edition has been expanded to include recent advances in biomass processing.

The author is a key player in the field, who has designed numerous small- and industrial-scale biogas plants, and who is also a long-time lecturer on biogas production, thus combining didactical skill with real-life expertise. As such, he covers both the biological and technical aspects of biogas generation. The full range of biogas substrates and processing modes is explained, from agricultural and industrial waste to marine algae and sediment. On-site use of biogas for conversion into electricity, fuel and heat is also discussed, as are safety and regulatory issues. Many real-life examples of European biogas plants already in operation illustrate the contents, as do numerous schemes, diagrams and summary tables.

For this new edition, biogas analytics and quality control required for feeding biogas into natural gas networks are included, as is a completely new chapter on the microbiology of biogas-producing bacterial communities.

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Editorial Review

Review

“The leading book on the market just got better. With its unique approach covering all aspects of setting up and running a biogas plant, this new edition has been explained to include recent advances in biomass processing.” (*ETDE Energy Database*, 1 August 2013)

From the Back Cover

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From reviews of the previous edition:

"This volume can provide a valuable introduction for biogas plant design and operation." - CHOICE, January 2009

"Written as a practical introduction to biogas plant design and operation, this book fills a huge gap by presenting a systematic guide to this emerging technology...Strongly recommended." - Environmental Engineering and Management Journal, July/August 2008

"Subsequent chapters cover the process engineering aspects and the different technology types in great detail." - EnAgri, April 2008

About the Author

Dieter Deublein is a professor at the Munich University of Applied Sciences, leading applied research and development in the field of biology and biogas production in close collaboration with the industry. Prior to this, he gained his broad and profound knowledge, especially in process engineering, during 12 years of experience in industry, leading worldwide construction projects for industrial plants processing natural substances. Professor Deublein has many practice-oriented publications sharing his practical experiences and 10 patent applications to his name.

Angelika Steinhauser studied biotechnology at the Munich University of Technology - Weihenstephan - and has been leading projects in research and development in a large multinational company for the past five years. Driven by her strong interest in the potential for biogas production, especially in Asia, she has been gathering information in her current hometown of Singapore on existing plants and current practices in emerging and developed markets so as to understand future opportunities. She has included her knowledge

and investigations in this book.

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