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Biogas and Compressed Biogas (CBG) Production Handbook (from Waste & Renewable Resources)

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Description

This book is an invaluable resource for entrepreneurs, startups, and anyone interested in sustainable energy solutions. With the global shift towards renewable energy, biogas production presents an exciting opportunity to convert organic waste into valuable energy resources. This handbook serves as a complete reference, offering insights into the production and utilization of biogas and compressed biogas (CBG).

Starting with the history and advantages of biogas technology, the book delves into the intricacies of biogas production, including the design and functioning of biogas plants. It covers everything from the anaerobic digestion process to the engineering aspects of biogas units, providing practical guidance on setting up and optimizing biogas plants. Entrepreneurs will find specific chapters on how to start a biogas business, plant layouts, and comply with environmental guidelines.

One of the standout features of this book is its focus on compressed biogas (CBG), a cleaner and more efficient energy source. The book explores the benefits of CBG, its production, and the steps to establish a successful CBG business.

Whether you're looking to launch a biogas startup, expand your existing business, or simply learn more about sustainable energy, this handbook offers the knowledge and tools needed to succeed in the growing field of biogas and CBG production. With detailed explanations, engineering design concepts, it is a must-have resource for anyone committed to a sustainable future.

Demand and Market Growth

- **Rising Energy Demand**: With increasing energy consumption, there is a growing demand for alternative and sustainable energy sources. CBG, being similar to natural gas, can be used in existing infrastructure, making it an attractive option.
- **Market Potential**: The market for CBG is expanding due to its potential to fulfill a significant portion of energy requirements. India's estimated potential for CBG from various sources is about 62 million metric tonnes, which could meet over 9% of the country's current energy needs.
- **Policy and Economic Incentives**: Governments are creating favorable conditions for CBG production through policies, subsidies, and mandates. For example, India has revised CBG rates and mandated natural gas companies to procure a percentage of CBG, boosting private sector interest

Why Buy this Book?

This handbook is a treasure trove of information, meticulously designed to support startups and entrepreneurs venturing into the biogas industry. It covers Biogas and Compressed Biogas (CBG) Production, ensuring that readers have a well-rounded understanding of the entire process. Whether you're new to the field or an experienced professional, this book provides practical solutions and innovative techniques that can help you optimize biogas production and maximize returns on investment.

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