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# Biogas Energy

# Biogas Energy Springerbriefs In Environmental Science

**Atun Roy Choudhury, Sankar Ganesh  
Palani**

## **Biogas Energy Springerbriefs In Environmental Science:**

*Sustainable Energy Solutions in Agriculture* Jochen Bundschuh,Guangnan Chen,2014-03-07 Sustainability in agriculture and associated primary industries which are both energy intensive is crucial for the development of any country Increasing scarcity and resulting high fossil fuel prices combined with the need to significantly reduce greenhouse gas emissions make the improvement of energy efficient farming and increased use of rene

*Mathematical and Statistical Approaches for Anaerobic Digestion Feedstock Optimization* Federico Moretta, Giulia Bozzano,2024-04-10 This book examines biomass mixture modeling and optimization The book discusses anaerobic digestion and related fermentative processes and explains their compositional dynamics Early chapter examine macromolecules elemental fractions and their direct influence on methane production Supported by an extensive data bank of substrates obtained from research the book points out correlations that enable the estimation of global methane production for diverse biomass mixtures Furthermore it provides valuable insights into discerning the optimal composition capable of yielding the utmost methane output The book integrates cutting edge machine learning techniques and shows how the programming language Python and Julia can be used for analysis and to optimize processes It has many graphs figures and visuals

*Circular Economy and Sustainability* Alexandros Stefanakis,Ioannis Nikolaou,2021-09-14 The concept of circular economy is based on strategies practices policies and technologies to achieve principles related to reusing recycling redesigning repurposing remanufacturing refurbishing and recovering water waste materials and nutrients to preserve natural resources It provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability However the increasing complexity of sustainability aspects means that traditional engineering and management economics alone cannot face the new challenges and reach the appropriate solutions Thus this book highlights the role of engineering and management in building a sustainable society by developing a circular economy that establishes and protects strong social and cultural structures based on cross disciplinary knowledge and diverse skills It includes theoretical justification research studies and case studies to provide researchers practitioners professionals and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking Volume 1 Circular Economy and Sustainability Management and Policy discusses the content of circular economy principles and how they can be realized in the fields of economy management and policy It gives an outline of the current status and perception of circular economy at the micro meso and macro levels to provide a better understanding of its role to achieve sustainability Volume 2 Circular Economy and Sustainability Environmental Engineering presents various technological and developmental tolls that emphasize the implementation of these principles in practice micro level It demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy Presents a novel approach linking circular economy concept to environmental engineering and management to promote sustainability goals in modern societies Approaches the topic of production and

consumption at both the micro and macro levels integrating principles with practice Offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on economic and societal progress

### **Renewable Energy Technologies for Energy Efficient Sustainable Development**

Arindam Sinharoy,Piet N. L. Lens,2022-01-03 The depletion of fossil fuel reserves and concerns for environmental degradation due to the fossil fuel burning have led the scientific community to look for alternative renewable energy sources Among the available renewable energy sources bioenergy derived from biomass and waste resources have great potential to not only prevent environmental pollution but also be a carbon neutral energy source In addition adaptation of this technology could streamline new green products alternative energy sources into real world applications and promote a circular economy towards zero waste approach This book tries to bridge the existing knowledge gap in the area of bioenergy resources The first two chapters provide introduction to the anaerobic digestion AD technologies and direct interspecies electron transfer in AD The next three chapters are on biomass pretreatment technologies for process improvement The sixth to eighth chapter discusses biogas and other by product production from specific wastes such from dairy food and agricultural solid waste The following two chapters focuses on the downstream processing of anaerobic digestate and on biochar production Integration of AD in biorefineries using bioelectrochemical systems syngas fermentation and electricity production are discussed in the next three chapters The final two chapters elaborates on life cycle assessment of AD based technologies

### **Material and Energy Recovery from Solid Waste for a Circular Economy**

Atun Roy Choudhury,Sankar Ganesh Palani,2024-07-08 Material and Energy Recovery from Solid Waste for a Circular Economy describes solid waste to material and energy recovery to bridge the gap between theoretical possibilities and on field criticalities It deals with various resource recovery possibilities from numerous waste streams such as municipal solid hazardous waste human faecal sludge construction and demolition waste and electronic waste The practical issues of resource recovery and possible remedies derived through onsite practice and experience are incorporated It includes real life feasibility analysis and implementation of waste to energy systems supported by case studies Features Provides comprehensive discussion on both energy and material recovery Addresses the missing linkage between the techno commercial feasibility of existing systems and environmental impact Discusses techno commercial feasibility and environmental impacts Offers balance between theoretical knowledge sharing and practical execution related issues Includes case study LCA and technical feasibility chapters This book is aimed at graduate students and researchers in environmental civil and chemical engineering

### **Biogas Energy**

Tasneem Abbasi,S.M. Tauseef,S.A. Abbasi,2011-11-03 In recent years the importance of biogas energy has risen manifold and has become universal This is due to the realization that biogas capture and utilization has great potential in controlling global warming By capturing biogas wherever it is formed we not only tap a source of clean energy but we also prevent the escape of methane to the atmosphere Given that methane has 25 times greater global warming potential than CO<sub>2</sub> methane capture

through biogas energy in this manner can contribute substantially towards global warming control ***Biogas Combustion Engines for Green Energy Generation*** Eiji Tomita,Nobuyuki Kawahara,Ulugbek Azimov,2022-03-01 This book deals with the combustion and exhaust emissions of gas engines fueled with green biogas Biogas is a mixture of gases primarily consisting of methane and carbon dioxide Biogas can be produced from raw materials such as agricultural waste manure municipal waste plant material sewage food waste etc Biogas is considered to be a renewable source of energy Therefore it can contribute to the prevention of global warming The biogas engine is used to co generate electricity by operating engine and heat from hot exhaust gases The energy source used very efficiently Unlike other green energy sources such as wind and solar biogas is readily available when needed This book first describes the basics of biogas and its application to internal combustion engines Next it describes the engine system and the combustion phenomena in the engine cylinder Engine technology continues to advance in spark ignition and dual fuel engines to achieve higher thermal efficiency and lower harmful emissions Several advanced combustion technologies are introduced to achieve higher thermal efficiency while avoiding knocking **Barriers to Biogas Use for Renewable Energy** John Willis,2012

**Biogas Production** Nagamani Balagurusamy,Anuj Kumar Chandel,2021-01-11 This book focuses on biogas production by anaerobic digestion which is the most popular bioenergy technology of today Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste The energy contained in the substrate is released in the form of biogas which can be employed as a renewable fuel in diverse industrial sectors Although biogas generation is considered an established process it continues to evolve e g by incorporating modifications and improvements to increase its efficiency and its downstream applications The chapters of this book review the progress made related to feedstock system configuration and operational conditions It also addresses microbial pathways utilized as well as storage transportation and usage of biogas This book is an up to date resource for scientists and students working on improving biogas production

**Biogas** Meisam Tabatabaei,Hossein Ghanavati,2019-02-02 This book presents the state of the art in biogas production using anaerobic digestion technology with an emphasis on waste utilization valorization Offering a comprehensive reference guide to biogas production from different waste streams it covers various aspects of anaerobic digestion technology from the basics i e microbiological aspects to prominent parameters governing biogas production systems as well as major principles of their operation analysis process control and troubleshooting Written and edited by internationally recognized experts in the field of biogas production from both academia and industry it provides in depth and cutting edge information on central developments in the field In addition it discusses and reviews major issues affecting biogas production including the type of feedstock pretreatment techniques production systems design and fabrication of biogas plants as well as biogas purification and upgrading technologies **Biogas Fundamentals Process and Operation** also addresses the application of advanced environmental and energy evaluation tools including life cycle assessment LCA exergy techno economics and modeling

techniques This book is intended for all researchers practitioners and students who are interested in the current trends and future prospects of biogas production technologies *Improving Biogas Production* Helen Treichel,Gislaine Fongaro,2019-01-10 This book highlights the current limitations of biogas production and yield and new avenues to improving them Biogas production and yield are among the most important renewable energy targets for our world Pursuing an innovative and biotechnological approach the book presents alternative sources for biogas production and explores a broad range of aspects including pre treatment of substrates accelerators enzyme mediated and inhibitors involved in the process of obtaining biogas and its yield design specifications for digesters modified digesters managing biogas plants microbial risk and slurry management energy balance and positive climatic impacts of the biogas production chain and the impacts on Human Animal and Environmental Health One Health concept for the biogas chain **Enzymes in**

**Environmental Management** Javid Ahmad Paray,Mohammad Yaseen Mir,A. K. Haghi,2024-10-04 Enzymes can help break down plastic waste and make it less harmful to the environment They can also be used to treat various types of waste including agricultural and food waste and wastewater Enzyme engineering is an important part of chemical biotechnology and helps to keep the environment clean Making clean and renewable fuels is a priority and many strategies are being developed to achieve this goal However food waste is still a major problem that can harm the environment because most disposal methods are not eco friendly This volume aims to inform readers about the latest developments in the use of enzymes for environmental management This comprehensive resource provides a detailed overview of how enzymes can be used in various sectors to promote ecological sustainability It covers the composition properties characterization chemistry and applications of different enzymes in emerging and eco friendly approaches to waste treatment It also highlights the latest advancements in sustainable technology and biotechnology enzymes The book is divided into sections that feature various enzymes used for treating resistant pollutants in wastewater enzymatically degrading synthetic plastics and engineering enzymes to impact environmental sustainability positively It also covers enzymes used in the valorization of waste enzyme technology in biofuel production and the recovery of enzymes from food waste Each chapter presents the enzymes chemical physical and biological attributes and reviews the recent research conducted in this emerging field The authors hope this document will inspire scientists to explore novel chemical material and energy sources in the future and to continue developing innovative applications for enzymes in environmental management *Biogas Technology* Liangwei Deng,Yi Liu,Wengu Wang,2020-05-28 This book focuses on agricultural waste treatment and renewable energy production from the perspective of anaerobic digestion It covers topics on anaerobic digestion processes and practices in various types of biogas plant construction and management and systematically addresses the principle and main features of three kinds of anaerobic digestion systems household digesters biogas septic tanks and biogas plants Instructive informative and easy to understand the book offers a valuable asset for researchers technicians graduate students and managerial personnel working in the

areas of renewable energy agricultural ecological engineering and the treatment and utilization of agricultural wastes

**The role of biogas in a more sustainable energy system in Sweden** Sofia Dahlgren, 2019-11-18 There are numerous problems in the world that need to be dealt with in order to achieve sustainable development The energy system has significant negative impacts on many of these problems and there is a need for a transition towards more sustainable energy Sweden has already started this transition and is using large amounts of renewable energy However within the transport sector and the manufacturing sector in particular large amounts of fossil fuels are still used Biogas is one alternative that can help solve several sustainability problems and that could be part of a future more sustainable energy system However it is not certain what biogas is most suitable to be used for The aim of this thesis is to investigate how biogas should be used in a future more sustainable energy system by answering three research questions 1 In what ways can biogas be used in a more sustainable energy system 2 How can we assess whether biogas is suitable in a specific context and 3 What determines whether it is easy or difficult for a user to start using biogas These questions are explored in a Swedish context using four appended articles which are based on two collaborative projects using a combination of workshops literature reviews and interviews Biogas can be used for heat electricity or fuel in the manufacturing or transport sector In Sweden heat and electricity are mainly of interest for smaller production scales while production on larger scales will likely be dominated by upgrading mostly to CBG but also to LBG CBG can be used for less energy intensive purposes such as cars or buses while the growing interest in LBG in Sweden may open up new market segments for biogas which are more energy intensive such as heavy trucks or shipping or in geographical locations that are further away from the site of production Several sustainability assessment methods exist that can be used to evaluate whether biogas is suitable in a specific context such as multi criteria assessments or scenario analyses These methods can include a number of different aspects that are relevant to biogas use such as GHG emissions safety issues and the vitality of the surrounding region In order to introduce biogas six main factors were identified that can make this easier or more difficult technical maturity tank volume distance between the producer and the user scale of energy use policies and costs and strategies of individual organizations Overall the rise in LBG production creates new opportunities for biogas use in both geographical and usage areas that did not previously use biogas There is no simple answer to what biogas should be used for in the future rather this depends on the circumstances It is also possible that the usage areas that are most suitable now for biogas might not be the most suitable areas in the future depending on developments within for example the electricity system and hydrogen However CBG and LBG are likely to dominate biogas production in Sweden until then Biogas composition and upgrading to biomethane Saija Rasi, 2009 Solar-to-Fuel Conversion in Algae and Cyanobacteria Cinzia Formighieri, 2015-04-17 This volume is focused on solar to fuel conversion using algae and cyanobacteria for advanced generation biofuels Production of biofuels needs to rely on cheap and renewable resources in order to be economically viable and environmentally sustainable in the long term Solar energy is an abundant

and renewable resource and strategies for solar to fuel conversion have the potential to sustain our energy demands in the long term and to be carbon dioxide neutral First generation biofuels are those already on the market such as bio ethanol from sugarcane and corn starch biodiesel from oil seed crops However development of a single biofuel as efficient as it may be would be insufficient and could not sustain the global demand for energy The next generation of advanced biofuels explores alternative feedstocks and technologies finding novel solar to fuel solutions Algae and cyanobacteria can convert sunlight into chemical energy through the process of photosynthesis They represent an alternative with respect to crops for solar to fuel conversion that does not compete with food for arable land This SpringerBrief focuses only on solar to fuel conversion for production of advanced biofuels pointing to the importance of relying on the sun for our sustainability in the long term It is the only current publication to discuss the problem of light utilization inefficiency during mass cultivation of micro algae This review also addresses the potential of cyanobacteria for the generation of direct photosynthesis to fuel platforms and discusses both possibilities and constraints for future developments

**The National Clean Energy Fund of India** Rita Pandey, Sanjay Bali, Nandita Mongia, 2014-07-15 The National Clean Energy Fund NCEF announced in the Government of India's Budget 2010-11 is seen as a major step in India's quest for energy security and reducing the carbon intensity of energy. Funding research and innovative projects in clean energy technologies and harnessing renewable energy sources to reduce dependence on fossil fuels constitute the objectives of the NCEF. The NCEF's utilization of funds is considered to be rather low and disbursements poorly aligned with the fund's stated objectives thus posing a potential risk of diluting the focus of NCEF with adverse implications for the much needed research and innovation in the clean energy sector in India. The book provides a detailed framework for promoting effective utilization and administration of NCEF. To this effect it identifies the most promising avenues for utilization of NCEF resources for catalytic opportunities and deployment of new technologies. It also identifies and prioritizes the specific energy sub sectors towards which the NCEF resources are directed. It also makes suggestions for designing a smart monitoring and evaluation framework for the NCEF. This work provides significant information for the government so that appropriate mid course corrections may be made in a timely manner. This will also be useful in honing the strategic thinking on a suitable energy technology policy and an assessment of technology needs and other barriers to the clean energy sector in India.

**Biogas Technology** Snehasish Mishra, 2019-07-28 Biogas is a renewable energy resource that can be an alternative solution for the world's insatiable energy demands while helping in managing waste and reducing the greenhouse gas GHG emissions. It is also regarded as carbon neutral as the carbon in biogas comes from organic matter feedstock that captured this carbon from atmospheric CO<sub>2</sub> over a relatively short timescale. This book has been written and compiled to collate latest information on biogas technology to help readers, researchers and extension workers alike to understand the fruitful exploitation of the process. It has fourteen chapters primarily in three major categories 01 the first category dealing with the basic biomethanation process including its ecology

microbiology biochemistry and molecular biology 02 the second category dealing with the evolution of the technology in Indian global scenario from the lab to the land 03 the last category is dealing with the economics of the technology All the various known and active names in this field of research and development have put their hearts and minds into their contributed chapters The additional details provided in the Annexures viz Model bankable scheme for biogas commercialisation venture Frequently asked questions in adopting biogas technology Common terminologies in biogas research Glossary of abbreviations and symbols frequently used in biogas research and Prominent global entities in biogas R D and commercialisation double the usefulness of the compilation **The Biogas Handbook** Arthur Wellinger,Jerry D Murphy,David Baxter,2013-02-19 With pressure increasing to utilise wastes and residues effectively and sustainably the production of biogas represents one of the most important routes towards reaching national and international renewable energy targets The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology Following a concise overview of biogas as an energy option part one explores biomass resources and fundamental science and engineering of biogas production including feedstock characterisation storage and pre treatment and yield optimisation Plant design engineering process optimisation and digestate utilisation are the focus of part two Topics considered include the engineering and process control of biogas plants methane emissions in biogas production and biogas digestate quality utilisation and land application Finally part three discusses international experience and best practice in biogas utilisation Biogas cleaning and upgrading to biomethane biomethane use as transport fuel and the generation of heat and power from biogas for stationery applications are all discussed The book concludes with a review of market development and biomethane certification schemes With its distinguished editors and international team of expert contributors The biogas handbook Science production and applications is a practical reference to biogas technology for process engineers manufacturers industrial chemists and biochemists scientists researchers and academics working in this field Provides a concise overview of biogas as an energy option Explores biomass resources for production Examines plant design and engineering and process optimisation *The Future of Gas Networks* Meysam Qadrda, Muditha Abeysekera, Jianzhong Wu, Nick Jenkins, Bethan Winter, 2019-08-30 This book investigates the role of gas networks in future low carbon energy systems and discusses various decarbonisation pathways providing insights for gas network operators developers and policy makers As more countries around the world move towards low carbon energy systems and increase their exploitation of renewable energy sources the use of natural gas and the associated infrastructure is expected to undergo a substantial transformation As such there is a great uncertainty regarding the future role of gas networks and how they will be operated in coming years The topics addressed include Fundamentals of gas network operation The impact of variable renewable electricity generation on the operation and expansion of gas networks The impact of decarbonising heat supplies on gas networks Opportunities and challenges of

utilising gas networks to transport alternative low carbon gases such as bio methane and hydrogen

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