

# Biogas Production Sintef

*Biogas Production Sintef*

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[Energy Research Abstracts](#) Newnes

A circular economy is an alternative to a traditional linear economy (make, use, dispose) in which we keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and materials at the end of each service life. Circular economy (CE) is important towards sustainable development, resources circulation and conservation, involving closing of material loops and cascading used resources, to prevent waste occurrence, and transforming the resulting residual streams into new (secondary) resources. Strategies and legislative framework for waste management are important steps for development of a more CE where resource efficiency becomes the key driver for both economic growth and environmental protections. A few countries achieved good results implementing CE as a replacement of the linear economy. Resource managers and planners should thoroughly identify factors to implement CE for societal benefits. This book presents how resource consumption is minimized with rational use based on 3Rs, legislative framework and government supports towards implementing CE initiatives, example of best practices, future plans and targets in different countries those are helpful for researchers, planners and implementers.

*Biofuel Production Technologies: Critical Analysis for Sustainability* Nordic Council of Ministers

This book aspires to be a comprehensive summary of current biofuels issues and thereby contribute to the understanding of this important topic. Readers will find themes including biofuels development efforts, their implications for the food industry, current and future biofuels crops, the successful Brazilian ethanol program, insights of the first, second, third and fourth biofuel generations, advanced biofuel production techniques, related waste treatment, emissions and environmental impacts, water consumption, produced allergens and toxins. Additionally, the biofuel policy discussion is expected to be continuing in the foreseeable future and the reading of the biofuels features dealt with in this book, are recommended for anyone interested in understanding this diverse and developing theme.

[Development of the Nordic Bioeconomy](#) Cambridge University Press

Energy emissions from industry and transport could be cut to zero by 2060 with pro-active policies and investments. Renewables will be crucial.

[Membrane Engineering for the Treatment of Gases: Gas-separation problems combined with membrane reactors](#) Springer Nature

Carbon membranes have great advantages of strong mechanical strength and high chemical stabilities, as well as high separation performance to reach the industrial attractive region. Further improvement on membrane performance can potentially offset the relatively high production cost compared to polymeric membranes. However, there are still some challenges related to fabrication of asymmetric carbon membranes, the controlling of structure and pore-size and module up-scaling for commercial application. The aim of this book is to provide the fundamentals on carbon membrane materials for the young researchers and engineers to develop frontier membrane materials for energy efficient separation process. This book describes the status and perspectives of both self-supported and supported carbon membranes from fundamentals to applications. The key steps on the development of high performance carbon membranes including precursor selection, tuning carbon membrane structure and regeneration are discussed. In the end, different potential applications both in gas and liquids separation are well described, and the future directions for carbon membrane development were pointed out. To this end, membrane science and engineering are set to play crucial roles as enabling technologies to provide energy efficient and cost-effective future solutions for energy and environment related processes. Based on this approach the research projects which are trying to find attractive carbon materials in our days are many. The published papers, per year, in the topic of carbon membranes, especially for biogas upgrading, natural gas sweetening and hydrogen purification, are numerous with very high impact. However, only few are the books which include relevant to the topic of carbon membrane technology. This book offers the condensed and interdisciplinary knowledge on carbon membranes, and provides the opportunity to the scientists who are working in the field of carbon membrane technology for gas and liquid separations to present, share, and discuss their contributions within the membrane community.

**A Review of Sustainable Energy Supply Options** International Renewable Energy Agency (IRENA)

Available online: <http://urn.kb.se/resolve?urn=urn:nbn:se:norden:org:diva-6010> "The aim of the Nordic countries is to be carbon neutral and to demonstrate leadership in the fight against global warming." These were the words of the Nordic prime ministers in their declaration at a summit in Helsinki as part of active Nordic climate co-operation under the auspices of the Nordic Council of Ministers. Each of the five Nordic countries has national goals for becoming carbon neutral before or by mid-century. In the Helsinki Declaration the Nordics committed themselves to assess the scenarios for how the different Nordic countries can achieve their respective carbon neutrality goals, including implications for various sectors. The aim of this study is to contribute to making this assessment possible and to highlight areas where co-Nordic initiatives can strengthen the Nordic countries' aims towards carbon neutrality.

*Carbon Membrane Technology* Springer Nature

This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population

growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

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**Adsorption and Diffusion** Frontiers Media SA

This open access book on straw management aims to provide a wide array of options for rice straw management that are potentially more sustainable, environmental, and profitable compared to current practice. The book is authored by expert researchers, engineers and innovators working on a range of straw management options with case studies from Vietnam, the Philippines and Cambodia. The book is written for engineers and researchers in order to provide them information on current good practice and the gaps and constraints that require further research and innovation. The book is also aimed at extension workers and farmers to help them decide on the best alternative straw management options in their area by presenting both the technological options as well as the value chains and business models required to make them work. The book will also be useful for policy makers, required by public opinion to reduce greenhouse gas emissions and air pollution, looking for research-based evidence to guide the policies they develop and implement.

[Carbon Dioxide Utilization to Sustainable Energy and Fuels](#) MDPI

An authoritative summary of the quest for an environmentally sustainable synthesis process of nanomaterials and their application for environmental sustainability Green Synthesis of Nanomaterials for Bioenergy Applications is an important guide that provides information on the fabrication of nanomaterial and the application of low cost, green methods. The book also explores the impact on various existing bioenergy approaches.

Throughout the book, the contributors—noted experts on the topic—offer a reliable summary of the quest for an environmentally sustainable synthesis process of nanomaterials and their application to the field of environmental sustainability. The green synthesis of nanoparticles process has been widely accepted as a promising technique that can be applied to a variety of fields. The green nanotechnology-based production processes to fabricate nanomaterials operates under green conditions without the intervention of toxic chemicals. The book's exploration of more reliable and sustainable processes for the synthesis of nanomaterials, can lead to the commercial application of the economically viability of low-cost biofuels production. This important book: Summarizes the quest for an environmentally sustainable synthesis process of nanomaterials for their application to the field of environmental sustainability Offers an alternate, sustainable green energy approach that can be commercially implemented worldwide Covers recent approaches such as fabrication of nanomaterial that apply low cost, green methods and examines its impact on various existing bioenergy applications Written for researchers, academics and students of nanotechnology, nanosciences, bioenergy, material science, environmental sciences, and pollution control, Green Synthesis of Nanomaterials for Bioenergy Applications is a must-have guide that covers green synthesis and characterization of nanomaterials for cost effective bioenergy applications.

**Biotechnology Research Abstracts** Routledge

The construction industry is currently experiencing accelerating developments concerning societal demands along with project complexity, internationalization and digitalization. In an attempt to grasp the consequences of these demands on productivity and innovation, this edited book addresses how innovation is likely to take place with a more long-term perspective on the construction sector. While existing literature focuses on organizational discontinuity and fragmentation as the main reasons for the apparent lack of innovation in the industry, this book highlights the connectivity of construction actors, resources and activities as fundamental for understanding how innovation takes place. Through 15 empirically grounded chapters, the book shows how innovation is part of construction processes on various levels, including project, firm and industry, and that these innovation processes are characterized by organizational and technological connectivity over time. Written by European business management scholars, the chapters cover empirical cases and examples from both a multi-organizational and a multi-international perspective in terms of covering the viewpoints of different industry actors and the contexts of several different European countries including: Sweden, Norway, the UK, Italy, France, Hungary and Poland. By illustrating how connectivity is part of innovation processes in the creation of single-product innovations, of various innovations within and across projects, as well as a fundamental aspect of the processes in which innovations cross nations, the book provides a new angle on how to understand construction innovation and where the industry might (or needs to) be heading next. This book is essential reading for anyone interested in construction management, project management, engineering management, innovation studies, business and management studies.

*Marine Biotechnology, Revealing an Ocean of Opportunities* John Wiley & Sons

The IWA Task Group for Mathematical Modelling of Anaerobic Digestion Processes was created with the aim to produce a generic model and common platform for dynamic simulations of a variety of anaerobic processes. This book presents the outcome of this undertaking and is the result of four years collaborative work by a number of international experts from various fields of anaerobic process technology. The purpose of this approach is to provide a unified basis for anaerobic digestion modelling. It is hoped this will promote increased application of modelling and simulation as a tool for research, design, operation and optimisation of anaerobic processes worldwide. This model was developed on the basis of the extensive but often disparate work in modelling and simulation of anaerobic digestion systems over the last twenty years. In developing ADM1, the Task Group have tried to establish common nomenclature, units and model structure, consistent with existing anaerobic modelling literature and the popular activated sludge models (See Activated Sludge Models ASM1, ASM2, ASM2d and ASM3, IWA Publishing, 2000, ISBN: 1900222248). As such, it is intended to promote widespread application of simulation from domestic (wastewater and sludge) treatment systems to specialised industrial applications. Outputs from the model include common process variables such as gas flow and composition, pH, separate organic acids, and ammonium. The structure has been devised to encourage specific extensions or modifications where required, but still maintain a common platform. During development the model has been successfully tested on a range of systems from full-scale waste sludge digestion to laboratory-scale thermophilic high-rate UASB reactors. The model structure is presented in a readily applicable matrix format for implementation in many available differential equation solvers. It is expected that the model will be available as part of commercial wastewater simulation packages. ADM1 will be a valuable information source for practising engineers working in water treatment (both domestic and industrial) as well as academic researchers and students in Environmental Engineering and Science, Civil and Sanitary Engineering, Biotechnology, and Chemical and Process Engineering departments. Contents Introduction Nomenclature, State Variables and Expressions Biochemical Processes Physicochemical Processes Model Implementation in a Single Stage CSTR Suggested Biochemical Parameter Values, Sensitivity and Estimation Conclusions References Appendix A: Review of Parameters Appendix B: Supplementary Matrix Information Appendix C: Integration with the ASM Appendix D: Estimating Stoichiometric Coefficients for Fermentation Scientific & Technical Report No.13

*Advanced Modelling with the MATLAB Reservoir Simulation Toolbox* Springer Science & Business Media

To achieve goals for climate and economic growth, "negative emissions technologies" (NETs) that remove and sequester carbon dioxide from the air will need to play a significant role in mitigating climate change. Unlike carbon capture and storage technologies that remove carbon dioxide emissions directly from large point sources such as coal power plants, NETs remove carbon dioxide directly from the atmosphere or enhance natural carbon sinks. Storing the carbon dioxide from NETs has the same impact on the atmosphere and climate as simultaneously preventing an equal amount of carbon dioxide from being emitted. Recent analyses found that deploying NETs may be less expensive and less disruptive than reducing some emissions, such as a substantial portion of agricultural and land-use emissions and some transportation emissions. In 2015, the National Academies published Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration, which described and initially assessed NETs and sequestration technologies. This report acknowledged the relative paucity of research on NETs and recommended development of a research agenda that covers all

aspects of NETs from fundamental science to full-scale deployment. To address this need, Negative Emissions Technologies and Reliable Sequestration: A Research Agenda assesses the benefits, risks, and "sustainable scale potential" for NETs and sequestration. This report also defines the essential components of a research and development program, including its estimated costs and potential impact.

*Fundamentals and Applications* National Academies Press

Zero Emission Buildings shows what can be achieved when researchers and practitioners work together to develop the building performance level of tomorrow that is needed today. This book is based on the research and development activities performed in the Research Centre on Zero Emission Buildings (the ZEB Centre) from 2009 to 2017. Emissions of CO<sub>2</sub> and other greenhouse gases must be reduced to limit global warming. Thus, the goal of the ZEB Centre has been to develop knowledge, competitive products, and solutions for existing and new buildings whose production, operation, and demolition give zero emissions of greenhouse gases, while also considering the users' needs for comfort and flexibility. The results presented here are based on research, as well as experience, from the development of nine real demonstration buildings. The key knowledge areas needed when designing, building, and operating zero emission buildings is discussed in detail. This book should be read by students of architecture and engineering, as well as practitioners looking for ways to contribute to a sustainable future. [Subject: Architecture, Environmental Studies, Sustainability & Green Design]

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### Exploring ways for sustainably feeding the Nordics Academic Press

Renewable energy is a fast expanding field, welcomed by many as part of the answer to climate change and energy security concerns; but can renewables deliver? This book reviews the basic technological options and global implementation, so as to convey the sense of excitement that abounds in this new area of technological development, but it also looks at the problems, including technological, policy issues, local environmental impacts and the need to deal with the variability of some renewable energy sources.

*Constraints and Opportunities for Sustainable Development* Springer

Farming is the foundation of our food system. While the prerequisite for farming is a clean environment and a diverse nature, agriculture is currently the cause of major environmental problems, including greenhouse gas and nitrogen emissions. The challenge to protect our environment and feed the world sometimes seem insurmountable, but solutions might be just around the corner. This report describes two food system scenarios for Denmark, Finland, Norway and Sweden, where the majority of food is produced within the region using organic farming practices and where livestock is mainly fed on grass and by-products not suitable for human consumption. The results show that we could feed the projected Nordic population in 2030 on organic food, mostly grown within the region, while reducing the climate and nitrogen footprints of our food system.

### NCM reporting: Test centers for green energy solutions - Biorefineries and business needs CABI

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

*Aquaponics Food Production Systems* Springer Nature

This book examines the bioeconomy concept, analysing the opportunities it can generate, the constraints and the potential benefits for society. The main objective of bioeconomy is to promote economic development, by creating jobs and enhancing the sustainable utilization of bio-resources. A primary driver of bioeconomy strategy, therefore, is the need to respond to the growing population's food and economic requirements. While today research and literature related to bioeconomy are limited, this book presents a unique collection of perspectives on the complex dimensions of the bioeconomy debate. Drawing on the experiences from Europe, Asia and Africa, it presents an international overview. The chapters address a wide range of issues, including coastal-land interactions, ecosystem services, food production, rural development, agriculture, forest management and bioenergy. As a whole, the volume outlines what role bioeconomy can play in contributing to the United Nations Sustainable Development Goals (SDGs) without compromising on the ecological sustainability and equitable distribution of benefits. The book concludes by providing recommendations for developing bioeconomy in respective sectors (agriculture, forestry, fisheries, renewable energy) and directions for planning future bioeconomy programmes and strategies. The Bioeconomy Approach will be of great interest to students and scholars of ecological economics,

development economics and environmental economics, as well as policy-makers and practitioners involved in sustainable development.

*REWAS 2022: Energy Technologies and CO2 Management (Volume II)* Royal Society of Chemistry

This edited book provides an in-depth overview of carbon dioxide (CO<sub>2</sub>) transformations to sustainable power technologies. It also discusses the wide scope of issues in engineering avenues, key designs, device fabrication, characterizations, various types of conversions and related topics. It includes studies focusing on the applications in catalysis, energy conversion and conversion technologies, etc. This is a unique reference guide, and one of the detailed works is on this technology. The book is the result of commitments by leading researchers from various backgrounds and expertise. The book is well structured and is an essential resource for scientists, undergraduate, postgraduate students, faculty, R&D professionals, energy chemists and industrial experts.

### Combined Aquaculture and Hydroponic Production Technologies for the Future Inst of Physics Pub Incorporated

Presents numerical methods for reservoir simulation, with efficient implementation and examples using widely-used online open-source code, for researchers, professionals and advanced students. This title is also available as Open Access on Cambridge Core.

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## REVIEW OF BIOGAS PRODUCTION SINTEF

- Nancy Holder and Jeff Mariotte have brought their crossover trilogy to an end in grand style. Action packed this book brings each of the complex plots to an agreeable end. Everyone plays apart as the gang tries to defeat the monsters, find the missing children, and stop the gang warfare. It is the action rather than the relationships, which sparkle in this story. The battles are well written. Poodle size rats, disembodied armor, slavers, mad zoo keepers, shadows, giant worms and miscellaneous monsters threaten the gang. Because there are so many characters it is hard to give them equal time or explore their emotions as much as fully as the reader might like. Not only do we have Buffy, Angel and their gangs, but even Faith and the mayor make an appearance. The authors for the most part have done an excellent job of working in the series history and keeping the characters true to their TV personalities. There are some lovely inside jokes that true Buffy fans will love. There are, however, some inconsistencies. When Faith is added to the team she pitches in to help Angel but says she owes Buffy nothing. Yet the last we saw Faith on the TV series she was acknowledging that Buffy was the only one who gave her chance after chance and that she had not only rejected her friendship but had attacked her friends and messed with her life. So it was hard to understand her anger at Buffy. The back drop of the other realities was very intriguing. I loved the vampire zoo especially and the worm tunnels made my skin crawl. A nice touch was the temptations. Although I think that Angel's temptation would have been more realistic if it had not excluded Buffy. I enjoyed the trilogy and this book in particular. I recommend it highly to Buffy fans but I would not suggest reading it without reading the other two Unseen volumes first.

- If you normally cook with red chiles or lemongrass stalk, or stock your kitchen for asian cooking, finding the ingredients won't be a hardship for you. Otherwise, that would be biggest obstacle to enjoying this book. The book contains a few simple recipes such as French Onion Soup, Nachos, or Fettuccine all'Alfredo. However, most recipes have an asian slant such as Thai Fried Rice, Spicy Beef, Chicken Goujons (think of chicken strips with a spicy bread crumb covering), or Bengali-style Vegetables. The displays for Asparagus Rolls with Herb Butter Sauce and Stilton Burgers offer a fresh

approach to old standbys. Every recipe has a photograph of the end result plus illustrations of each of the ingredients and each step of the production process. It is a very attractive book. If you are looking for new ideas, this book may inspire you. To date, I have not cooked a single recipe, although I think I will eventually go to an asian market and expand my cooking horizons.