

# Renewable Sustainable Energy Reviews

**Phoumin Han, Farhad Taghizadeh-Hesary, Fukunari Kimura**

**Bioenergy and Environmental Biotechnology for Sustainable Development** Akinola Rasheed Popoola, Emeka Godfrey Nwoba, James Chukwuma Ogbonna, Charles Oluwaseun Adetunji, Nwadiuto (Diuto) Esiobu, Abdulrazak B. Ibrahim, Benjamin Ewa Ubi, 2022-05-10 This book covers a range of important topics on environmental remediation, biofuels and value-added microbial products for environmental clean-up, water and wastewater recycling and sustainable wastewater treatment using microalgae. Designed to document advances in biotechnology, this book highlights bio-resource utilization in fostering low-carbon renewable energy-based economies and provides new insights into chlorine disinfectant usage in water treatment, wastewater treatment using microalgae, etc. The book will be useful reference material for scientists and researchers in the fields of microbial biotechnology and bioremediation, environmental biotechnology and sustainable development, climate change mitigation, provision of safe water and sustainable wastewater recycling. Emphasizes recent advances in bioremediation techniques towards environmental sustainability Provides detailed information on how to harness indigenous bio-resources including microorganisms as bioenhancement agents for environmental remediation Introduces new frontiers in the area of wastewater treatment using microalgae — important for sustainability and water safety Reviews biotechniques that could enhance higher levels of sustainability in heavily polluted environments and also provides an intelligent monitoring system for waste recycling and environmental remediation, and fostering a low-carbon renewable energy-based bioeconomy Discusses the need for review of existing guidelines on chlorine disinfectant usage for enhanced water quality Akinola Rasheed Popoola, Ph.D., is a Professor of Plant Pathology and the Director of the Biotechnology Centre, Federal University of Agriculture, Abeokuta, Nigeria. Emeka Godfrey Nwoba, Ph.D., is a research scholar at the Algae Research & Development Centre, Murdoch University, Western Australia. James Chukwuma Ogbonna, Ph.D., is a Professor of Microbiology and Biotechnology and Director, National Biotechnology Development Agency, South East Zonal Biotechnology Centre, University of Nigeria, Nsukka, Nigeria. Charles Oluwaseun Adetunji, Ph.D., is an Associate Professor of Microbiology and Biotechnology, and Director of Intellectual Property and Technology Transfer, Edo State University, Uzairue, Nigeria. Nwadiuto (Diuto) Esiobu, Ph.D., is a Professor of Microbiology and Biotechnology at Florida Atlantic University, Boca Raton, FL, USA, and the President and Founder of Applied Biotech Inc. and ABINL, Abuja, Nigeria. Abdulrazak B. Ibrahim, Ph.D., is a Capacity Development Expert at the Forum for Agricultural Research in Africa (FARA) and an Associate Professor of

Biochemistry, Ahmadu Bello University, Zaria, Nigeria. Benjamin Ewa Ubi, Ph.D., is a Professor of Plant Breeding and Biotechnology and Director, Biotechnology Research and Development Centre, Ebonyi State University, Abakaliki, Nigeria.

**Thermal Energy** Yatish T. Shah, 2018-01-12 The book details sources of thermal energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials, and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

**Biomass Power for the World** Wim P. M. van Swaaij, Sascha R. A. Kersten, Wolfgang Palz, 2015-04-06 Energy from solar radiation, fixated by self-assembling plant structures, creates biomass that is converted to energy carriers fit for application in today's and tomorrow's energy-generating equipment. The central theme of this book is the development of the current largest renewable energy source for efficient applications in modern and developing

Wind and Solar Energy Applications Satish Kumar Peddapelli, Peter Virtic, 2023-03-22 This book examines the recent advances, from theoretical and applied perspectives, addressing the major issues associated with renewable energy systems, with each chapter covering fundamental issues and latest developments. This book covers important themes, including solar energy equipment, wind and solar energy systems, energy storage and bioenergy applications, hybrid renewable energy systems, as well as the measurement techniques that are used for these systems. Further, it focusses on original research outcomes on various technological developments and provides insights to taxonomy of challenges, issues, and research directions in renewable energy applications. Features: Covers research and technological developments in wind and solar energy applications Proposes resolution of limitations and performance issues of existing system models and design Incorporates the challenges of adoption of renewable energies system Provides hypotheses, mathematical analysis, and real-time practical applications to practical problems Includes case studies of implementation of solar and wind systems in remote areas This book is aimed at researchers, professionals, and graduate students in electrical and mechanical engineering and renewable energy.

*Microgrids* Amjad Anvari-Moghaddam, Hamdi Abdi, Behnam Mohammadi-Ivatloo, Nikos Hatziaegyriou, 2021-03-15 This book provides a comprehensive overview on the latest developments in the control, operation, and protection of microgrids. It provides readers with a solid approach to analyzing and understanding the salient features of modern control and operation management techniques applied to these systems, and presents practical methods with examples and case studies from actual and modeled microgrids. The book also discusses emerging concepts, key drivers and new players in microgrids,

and local energy markets while addressing various aspects from day-ahead scheduling to real-time testing of microgrids. The book will be a valuable resource for researchers who are focused on control concepts, AC, DC, and AC/DC microgrids, as well as those working in the related areas of energy engineering, operations research and its applications to energy systems. Presents modern operation, control and protection techniques with applications to real world and emulated microgrids; Discusses emerging concepts, key drivers and new players in microgrids and local energy markets; Addresses various aspects from day-ahead scheduling to real-time testing of microgrids.

**Willingness to Pay Framework** Dalia Štreimikienė, Asta Mikalauskiene, 2021-08-02 This book aims to develop a framework for the assessment of population 'preferences in climate change mitigation policies by applying a Willingness to Pay (WTP) approach and presents the results from several case studies in Lithuania on renewable energy generation and renovation in different households. These analyses of climate change mitigation policies and measures, based on the assessment of their effectiveness, provide recommendations for developing innovative measures in other countries. Since public preferences are variable, climate change mitigation policies can change these preferences and allow to form new ones. Features: Analyses social benefits of climate change mitigation measures and their integration methods based on assessment of public preferences. Presents several practical case studies on energy needs where the Willingness to Pay framework was applied. Discusses climate change mitigation barriers in energy sector and the effectiveness of climate change mitigation policies to overcome them. Provides a novel approach for climate change mitigation policies development in households. Includes useful information for evaluating and planning policies related to renewable energy investment. This book is a useful reference for those in the academic, research, and business communities, policy makers, graduate students, and professionals involved with climate change mitigation projects.

**Econometrics of Green Energy Handbook** Muhammad Shahbaz, Daniel Balsalobre-Lorente, 2020-06-17 This book gathers cutting-edge studies on the relationship between energy innovations, economic growth, environmental regulation, promotion of renewable energy use, and climate change. Building on the research discussed in the editor's previous book *Decarbonization and Energy Technology in the Era of Globalization*, it discusses recent developments such as the impacts of globalization and energy efficiency on economic growth and environmental quality. It also explores the ways in which globalization has benefited green energy development, e.g. the expansion of new technologies and cleaner machinery, as well as the problems it has caused. Written by respected experts, the respective contributions address topics including econometric modelling of the behaviour of and dynamics between economic growth and environmental quality, aspects of energy production and consumption, oil prices, economic growth, trade openness, environmental quality, regulatory measures, and innovations in the energy sector. Providing a comprehensive overview of the latest research, the book offers a valuable reference guide for researchers, policymakers, practitioners and students in the fields of renewable energy

development and economics.

*Biotechnological Applications of Biomass* Thalita Peixoto Basso,Thiago Olitta Basso,Luiz Carlos Basso,2021-08-18  
Biotechnological Applications of Biomass provides a comprehensive overview of the current state of the art of biomass utilization in agriculture and pharmaceuticals. The information contained herein is useful to researchers and other readers interested in biomass utilization and production of bioproducts.

**Electricity Decentralization in the European Union** Rafael Leal-Arcas,2023-07-10 Electricity Decentralization in the European Union: Towards Zero Carbon and Energy Transition, Second Edition examines progress in decentralization across the European Union, with each chapter focusing on developments and innovations in a specific country. Sections provide an overview of the current role and state of smart grids, the conceptualization of energy transition, and specific cases across all EU states. Across the chapters, regulatory frameworks are assessed to identify to what extent it is conducive to decentralization, with specific outcomes of decentralization covered in detail, including deployment of smart grids and meters, demand response, electric vehicles, and storage. The book highlights how specific EU member states are progressing towards deployment of these tools and technologies, along with the specific needs and regulatory barriers in each and recommendations for how regulation can be more encouraging. In addition, electricity interconnections in the EU are considered as a vital step towards decentralization in order to boost energy security and energy efficiency. Finally, the book includes a detailed examination of data protection concerns that arise from the advent of new technologies that collect personal information, such as smart grids, assessing current regulation on data protection and identifying areas for improvement, as well as innovative finance options for sustainable energy. - Analyzes the regulatory environment with regard to decentralization - Explores new tools and technologies to facilitate decentralization, along with current progress in each - Addresses barriers and suggests improvements across tools, technologies and regulations

Energy Sustainability and Development in ASEAN and East Asia Phoumin Han,Farhad Taghizadeh-Hesary,Fukunari Kimura,2020-06-14 The rapid and sustained economic growth of the past two decades has led to marked increases in energy demand in the region and developing Asia will continue to lead the energy demand growth. The increase in energy demand threatens energy security and efforts to curb carbon dioxide emissions, affecting health and social well-being. These common energy challenges will need to be addressed through concerted efforts. This book provides several multi-dimensional quantitative analysis of the relationship between energy and other subjects including but not limited to income and economic growth, environment and health, food and agricultural production. The book also provides the most constructive policy recommendations concerning the relationship between energy, economic development, social development, and environmental development.

**Advances in Power Systems and Energy Management** Neeraj Priyadarshi,Sanjeevikumar Padmanaban,Ranjan Kumar

Ghadai,Amiya Ranjan Panda,Ranjeeta Patel,2021-01-20 This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

*Technological Advancements and Future Directions in Green Energy* Zhijun Peng,2025-03-14 Technological Advancements and Future Directions in Green Energy: Selected Papers from ICGET 2024 offers readers selected and expanded papers from the 9th International Conference on Green Energy Technologies. It features innovative work by academics, researchers, and industry experts highlighting the latest renewable energy developments. The book covers fundamental and practical applications for green energy resources, including power generation and potential assessment of renewable energy, environmental impact assessment of hydrogen energy production and environmental pollution management, energy efficiency and energy management. It is a valuable interdisciplinary reference for young researchers, postgraduate students, professionals, and industry practitioners working with green energy technology and applications.

**ADDRESSING GLOBAL ISSUES WITH COLLECTIVE AND CONCERTED ACTIONS: Indonesian Scholar Perspectives for the G20 Forum** Wahyudi Kumorotomo,Muhammad Baiquni,2023-01-12 As a compilation of research and scholarly articles under the auspices of Dewan Guru Besot (Board of Professors) of U niversitas Gadjah Mada, this volume is expected to contribute for the Sherpa Track of G20 forum. We believe that multi-disciplinary approach among university scholars would provide a comprehensive understanding on what to be considered by the G20 country leaders who are scheduled to meet in Bali, Indonesia, in 2022. Parallel to the three prioritized agendas for G20, critical reviews on health system after the Covid-19 global pandemic, changing activities and lifestyle under digitalized economy, and transition towards sustainable energy are presented. Cases are mostly taken from the Indonesian experience. We would argue that interdependency and partnership among countries are inevitable and that we must understand and acknowledge it more than ever. All the critical global issues—health, poverty, climate change—can only be addressed with collective actions of all individuals in developed as well as developing countries. The collective awareness of the new world order for healthy, smart, and green lifestyle is essential to the future living in the planet. The G20 forum is crucial as it represents 65 percent of the world population and 80 percent of the world economy. We hope that G20 leaders have a full commitment and capacity to conduct an orchestra of global community which enable and empower citizens while acknowledging cultural diversity in their respected countries. It is a high time for all of collective and concerted actions.

**Research Anthology on Clean Energy Management and Solutions** Management Association, Information Resources, 2021-06-25 Energy usage and consumption continue to rise globally each year, with the most efficient and cost-effective energy sources causing huge impacts to the environment. In an effort to mitigate harmful effects to the environment, implementing clean energy resources and utilizing green energy management strategies have become worldwide initiatives, with many countries from all regions quickly becoming leaders in renewable energy usage. Still, not every energy resource is without flaws. Researchers must develop effective and low-cost strategies for clean energy in order to find the balance between production and consumption. The Research Anthology on Clean Energy Management and Solutions provides in-depth research that explores strategies and techniques used in the energy production field to optimize energy efficiency in order to maintain clean and safe use while delivering ample energy coverage. The anthology also seeks solutions to energy that have not yet been optimized or are still produced in a way that is harmful to the environment. Covering topics such as hydrogen fuel cells, renewable energy, solar power, solar systems, cost savings, and climate protection, this text is essential for electrical engineers, nuclear engineers, environmentalists, managers, policymakers, government officials, professionals in the energy industry, researchers, academicians, and students looking for the latest research on clean energy management.

*Cold Inflow-Free Solar Chimney* Md. Mizanur Rahman, Chi-Ming Chu, 2021-05-28 This book highlights the design of a new type of solar chimney that has lower height and bigger diameter, and discusses its applications. The bigger diameter chimneys are introduced showing cold inflow phenomena that significantly reduced the performance of solar chimney. The cold inflow-free operation of solar chimneys restores the draft losses and enhances the performance of the solar chimneys. Numerical and experimental investigation results will be presented to highlight the performance of cold inflow-free solar chimney performance. In addition, this book covers the important basic design parameters that affect the design of solar chimney for different applications, mainly, solar chimney-assisted ventilation for passive cooling and power generation system.

*Renewable Energy and Sustainability* Imran Khan, 2022-06-22 Renewable Electricity and Sustainability: Prospects in Developing Economies is the first book of its kind to be dedicated entirely to the needs of emerging economies. It provides readers with a comprehensive review of current renewable energy technologies, their status in emerging economies, and the potential for sustainable renewable electricity generation in those countries. A multidisciplinary approach is used to assess the needs and challenges of each region, which is supported by quantitative analyses of the current and future potential for renewable electricity generation. Real-world examples are also provided from the respective electricity sectors of each region. This resource is a unique reference for graduates and researchers on the social, technical and economic landscape of renewable energy in emerging economies and would also be useful to NGO's and policymakers in developing countries or

those working in sustainable development. - Focuses specifically on the renewable energy and sustainability needs of developing economies - Explores the renewable energy potential of developing countries and how this can be converted to sustainable electricity generation, supported by quantitative analyses and real-world case studies - Addresses energy efficiency, energy management and the socioeconomic aspects of renewable electricity generation in developing countries, in addition to each renewable energy resource

Advances in Biofeedstocks and Biofuels, Biofeedstocks and Their Processing Lalit Kumar Singh, Gaurav Chaudhary, 2016-12-22 The most comprehensive and up-to-date treatment of all the possible aspects for biofeedstock processing and the production of energy from biofeedstocks Biofuels production is one of the most extensively studied fields in the energy sector that can provide an alternative energy source and bring the energy industry closer to sustainability. Biomass-based fuel production, or renewable fuels, are becoming increasingly important as a potential solution for man-made climate change, depleted oil reserves, and the dangers involved with hydraulic fracturing (or fracking). The price of oil will always be volatile and changeable, and, as long as industry and private citizens around the world need energy, there will be a need for alternative energy sources. The area known as biofuels and biofeedstocks is one of the most important and quickly growing pieces of the energy pie. But biofuels and biofeedstocks are constantly changing, and new processes are constantly being created, changed, and improved upon. The area is rapidly changing and always innovative. It is important, therefore, that books like the volumes in this series are published and the information widely disseminated to keep the industry informed of the state-of-the-art. This first volume in this groundbreaking new series is a collection of papers from some of the world's foremost authorities on biofeedstocks and biofuels, covering biofeedstocks and how they are processed. It is a must-have for any engineer, scientist, technician, or student working in this area.

Handbook of Graphene, Volume 4 Cengiz Ozkan, 2019-06-12 The fourth volume in a series of handbooks on graphene research and applications The Handbook of Graphene, Volume 4: Composites looks at composite materials exclusively. Topics covered include graphene composites and graphene-reinforced advanced composite materials. The following graphene-based subjects are discussed: ceramic composites; composite nanostructures; composites with shape memory effect; and scroll structures. Chapters also address: the fabrication and properties of copper graphene composites; graphene metal oxide composite as an anode material in li-ion batteries; supramolecular graphene-based systems for drug delivery; and other graphene-related areas of interest to scientists and researchers.

**Handbook on Geographies of Technology** Barney Warf, 2017-02-24 This Handbook offers an insightful and comprehensive overview from a geographic perspective of the numerous and varied technologies that are shaping the contemporary world. It shows how geography and technology are intimately linked by examining the origins, growth, and impacts of 27 different technologies and highlighting how they influence the structure and spatiality of society.

*Analytic Hierarchy Process - Models, Methods, Concepts, and Applications* Antonella Petrillo, Fabio De Felice, 2023-07-12  
Analytic Hierarchy Process is one of the most widely known and applied multi-criteria decision-making methodologies worldwide. Its potential to analyze complex decision-making problems is enormous. This makes the methodology a very flexible tool that can be applied in various scenarios (social, engineering, economic, political, environmental, location, market share, etc.). The idea of the book is to present examples and case studies based on a rigorous scientific approach to Analytic Hierarchy Process. This book is intended to be a useful resource for anyone who deals with this issue.

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