

Renewable And Sustainable Energy Reviews

Mohd Mustafa Al Bakri Abdullah,Liyana Jamaludin,Alida Abdullah,Rafiza Abd Razak,Kamarudin Hussin

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Renewable Energy Mansour Al Qubeissi,Ahmad El-Kharouf,Hakan Serhad Soyhan,2020-09-09 The demand for secure, affordable and clean energy is a priority call to humanity. Challenges associated with conventional energy resources, such as depletion of fossil fuels, high costs and associated greenhouse gas emissions, have stimulated interests in renewable energy resources. For instance, there have been clear gaps and rushed thoughts about replacing fossil-fuel driven engines with electric vehicles without long-term plans for energy security and recycling approaches. This book aims to provide a clear vision to scientists, industrialists and policy makers on renewable energy resources, predicted challenges and emerging applications. It can be used to help produce new technologies for sustainable, connected and harvested energy. A clear response to economic growth and clean environment demands is also illustrated.

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

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.

Renewable Energy and Green Technology Narendra Kumar, Hukum Singh, Amit Kumar, 2021-12-09 Renewable Energy and Green Technology: Principles and Practices is based on the present need to understand the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in global development. Renewable energy is the best and cheapest source of energy as an alternate resource. There is massive potential for renewable energy globally, including in India. The efficient utilization of renewable energy resources could minimize the impact of climate change globally. Generally, renewable energy is generated from essentially inexhaustible sources, including wind power, solar power, geothermal energy, tidal energy, biomass energy, and other sources. Hence, encouraging renewable energy use could save our tomorrow from the climate change perspective and in terms of sustainable food production. This book promotes the exchange of ideas, policy formulation, and collective action to ensure a smooth transition to renewable energy. It describes the technological interventions for reducing environmental and economic damage resulting from the use of conventional energy sources. In this book, the focus is on utilizing various renewable energy sources in diverse sectors. It also elaborates the descriptive methodology of different renewable energies, accompanied by figures and tables. It provides information on biogas energy plants, gasifier technologies, and hydropower technologies, among others, along with their applications. Further, it delves into energy concepts and details significant advantages of the energy resources for sustaining the future world. Lastly, this book will provide instant access to comprehensive, cutting-edge knowledge, making it possible for academicians and researchers to utilize this ever-growing wealth of information. Key features Emphasizes the understanding

of the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development Focuses on recent trends in renewable energy with principles and practices in relation to climate change Highlights advanced approaches for sustainable use of renewable energy sources Illustrates the methodology for various aspects of renewable energy with figures and charts Discusses the green technology usages of the agriculture and forestry sectors Provides comprehensive cutting-edge information for policymakers in the field of renewable energy

Energy Efficiency Applications in Buildings Bertug Ozarisoy,Hasim Altan,Young Ki Kim,Wei Shi,2025-06-30 Energy Efficiency Applications in Buildings presents an investigation into the energy use and measures to improve the energy efficiency of existing building stock in the UK. The aim of this research is to assess the domestic energy use of statistically representative residential buildings and their occupants' thermal comfort by considering the significant impact of overheating risks on energy consumption and occupants' well-being. Divided into two volumes, these books present energy consumption and thermal comfort in the construction sector as a complex socio-technical problem that involves the analysis of an intrinsic interrelationship amongst dwellings, occupants, and the environment. Using case studies, the authors demonstrate the significance of improving energy efficiency and its impact on occupants during long-term heatwaves in the summer. Additionally, the volumes demonstrate how dynamic thermal energy simulation can be used as a learning laboratory for future trends in housing energy consumption reduction. Volume 1: Theories, Methods, and Tools presents the background to the research and the assessment methods and tools adopted by the research team. Volume 2: Performance Evaluation and Retrofitting Strategies describes the case studies and building performance and post-occupancy evaluations, before making strategic policy and retrofitting recommendations. The research and roadmap presented in these volumes can be used as a guidance tool for building energy modelling and performance simulation, enabling architects, building engineers, and other practitioners to close the gap between the current understanding and the actual performance of existing building stocks.

Lignocellulosic Biomass Refining for Second Generation Biofuel Production Ponnusami V.,Kiran Babu Uppuluri,Rangabhashiyam S,Pardeep Singh,2023-07-14 This book compiles research aspects of second-generation (2G) biofuel production derived specifically from lignocellulose biomass using biorefinery methods. It focuses on the valorization of different sources of 2G biofuels and their relative importance. The constituents of lignocelluloses and their potential characteristics different methods of treating lignocellulose, various means of lignocellulose bioconversion, and biofuel production strategies are discussed. Features: Describes technological advancements for bioethanol production from lignocellulosic waste Provides the roadmap for the production and utilization of 2G biofuels Introduces the strategic role of metabolic engineering in the development of 2G biofuels Discusses technological advancements, life cycle assessment, and prospects Explores the novel potential lignocellulosic biomass for 2G biofuels This book is aimed at researchers and professionals in renewable energy, biofuel, bioethanol, lignocellulose conversion, fermentation, and chemical engineering.

Renewables David Elliott, 2013 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.

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.

Nanofluids and Their Engineering Applications K.R.V. Subramanian, Tubati Nageswara Rao, Avinash Balakrishnan, 2019-06-18 Nanofluids are solid-liquid composite material consisting of solid nanoparticles suspended in liquid with enhanced thermal properties. This book introduces basic fluid mechanics, conduction and convection in fluids, along with nanomaterials for nanofluids, property characterization, and outline applications of nanofluids in solar technology, machining and other special applications. Recent experiments on nanofluids have indicated significant increase in thermal conductivity compared with liquids without nanoparticles or larger particles, strong temperature dependence of thermal conductivity, and significant increase in critical heat flux in boiling heat transfer, all of which are covered in the book. Key Features Exclusive title focusing on niche engineering applications of nanofluids Contains high technical content especially in the areas of magnetic nanofluids and dilute oxide based nanofluids Feature examples from research applications such as solar technology and heat pipes Addresses heat transfer and thermodynamic features such as efficiency and work with mathematical rigor Focused in content with precise technical definitions and treatment

The Extended Energy-Growth Nexus Jose Alberto Fuinhas, António Cardoso Marques, 2019-06-08 The Extended Energy-Growth Nexus: Theory and Empirical Applications advances the established bivariate econometric relationship which inextricably links energy consumption to economic growth. The book extends this nexus to accommodate variables such as globalization, institutional variables, financial variables and the energy mix. Rooted firmly in the modern literature, it covers empirical applications such as the evaluation of renewable energy incentives, the electricity generation mix, and sustainable development. Each application area incorporates modern econometric methodologies, including VAR, panel VAR, ARDL,

panel ARDL, Asymmetric panel ARDL, and Panel Quantile Regression. Throughout chapters are accompanied by illustrative Stata and EViews code, demonstrating their uses in applied research. - Primes researchers to understand advanced literature and current methodologies within the energy-growth nexus - Provides a rich set of working tools for econometricians working on real-world energy and growth problems - Accompanied by representative databases and illustrative Stata and EViews code, facilitating replication and use

Nano Hybrids and Composites Vol. 17 P. Kuppusami,T. Sasipraba,2017-08-01 EApp-2016 Selected, peer reviewed papers from the International Conference on “Nanoscience and Nanotechnology for Energy Applications (EApp-2016)”, June 27-29, 2016, Chennai, India

Assessment of the potential of methyl ester production from non-edible oils Venu Gopal,2018-09-12 Doctoral Thesis / Dissertation from the year 2017 in the subject Environmental Sciences, grade: A, Andhra University (College of engineering), language: English, abstract: Biodiesel as an alternative fuel for diesel engines is becoming increasingly important due to diminishing petroleum reserves and the environmental consequences of exhaust gases from petroleum-fueled engines. Biodiesel, which is made from renewable sources, consists of the simple alkyl esters of fatty acids. As a future prospective fuel, biodiesel has to compete economically with petroleum diesel fuels. A two-step transesterification process (Sequential esterification and transesterification process) was used to prepare methyl ester (biodiesel) from high free fatty acid (FFA) content oils. For the yield of high FFA, two-step acid-base catalyzed method has been developed which consists of acid-catalyzed pretreatment/esterification step to reduce the FFA to less than 1% using H₂SO₄ as an acid catalyst and transesterification of pretreated oil to biodiesel using alkali catalyst. In the present study, the main focus is being placed to explore the non-edible oil resources like Used Cooking Oil (UCO), Cottonseed oil, Jatropha (Jatropha curcas) oil, Neem(Azadirachta indica) oil as a potential source for biodiesel. Experimental results from enzyme (lipase) catalyzed method for selected oils using influencing parameters such as reaction time and catalyst weight, experimental results from acid-alkaline catalyzed methods using common influencing parameters such as methanol to oil molar ratio, catalyst weight, reaction temperature and reaction time for above-mentioned oils were compared using batch mode. Methyl ester (biodiesel) yield range of 66.20-71.6% was attained for an enzyme-catalyzed method, whereas for acid-alkaline the yield range was 84.4-91.6%. This gives the indication of further refinement in the enzyme-catalyzed transesterification process. However, enzyme-catalyzed biodiesel production has some limitations especially when implemented in industrial scale because of the high cost of enzyme, low reaction rate and enzyme deactivation. As the catalyst, an enzyme is restricted to rigorous reaction condition and the activity loss of lipase. The influencing parameters and absolute results of the analysis give the impression of the superiority of acid-alkaline transesterification method for methyl ester production. In this study, we have selected Used Cooking Oil Methyl Ester (UCOME) and Jatropha Methyl Ester (JME) among the methyl esters of four oils.

Hybrid Power Yatish T. Shah, 2021-02-18 Hybrid energy systems integrate multiple sources of power generation, storage, and transport mechanisms and can facilitate increased usage of cleaner, renewable, and more efficient energy sources. Hybrid Power: Generation, Storage, and Grids discusses hybrid energy systems from fundamentals through applications and discusses generation, storage, and grids. Highlights fundamentals and applications of hybrid energy storage. Discusses use in hybrid and electric vehicles and home energy needs. Discusses issues related to hybrid renewable energy systems connected to the utility grid. Describes the usefulness of hybrid microgrids and various forms of off-grid energy such as mini-grids, nanogrids, and stand-alone systems. Covers the use of hybrid renewable energy systems for rural electrification around the world. Discusses various forms and applications of hybrid energy systems, hybrid energy storage, hybrid microgrids, and hybrid off-grid energy systems. Details simulation and optimization of hybrid renewable energy systems. This book is aimed at advanced students and researchers in academia, government, and industry, seeking a comprehensive overview of the basics, technologies, and applications of hybrid energy systems.

Africa International Conference on Clean Energy and Energy Storage Roland Uhumwangho, Sunday Olayinka Oyedepo, Ogheneruona Endurance Diemuodeke, Fidelis Abam, Veronica Edeminam, Anthony Akpasoh, 2024-03-15 Selected peer-reviewed full text papers from the 1st Africa International Conference on Clean Energy and Energy Storage (AICCEES). Selected peer-reviewed full text papers from the 1st Africa International Conference on Clean Energy and Energy Storage (AICCEES), November 23-24, 2023, Port Harcourt, Nigeria

Water and Energy International, 2015

Energy Engineering and Environmental Engineering Tony Sun, 2013-04-10 Selected, peer reviewed papers from the 2013 International Conference on Energy Engineering and Environmental Engineering (ICEEEE 2013), January 18-19, 2013, Hangzhou, China

Biodiesel Research Laura L. Barnes, 2006

Advanced Materials Engineering and Technology II Mohd Mustafa Al Bakri Abdullah, Liyana Jamaludin, Alida Abdullah, Rafiza Abd Razak, Kamarudin Hussin, 2013-12-05 Selected, peer reviewed papers from the 2013 International Conference on Advanced Materials Engineering and Technology (ICAMET 2013), November 28-29, 2013, Bandung, Indonesia

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