



# Energy Sustainability Through Green Energy Green Energy And Technology

**Pankaj Pathak,Rajiv Ranjan Srivastava**



## **Energy Sustainability Through Green Energy Green Energy And Technology:**

**Energy Sustainability Through Green Energy** Atul Sharma, Sanjay Kumar Kar, 2015-04-21 This book shares the latest developments and advances in materials and processes involved in the energy generation transmission distribution and storage Chapters are written by researchers in the energy and materials field Topics include but are not limited to energy from biomass bio gas and bio fuels solar wind geothermal hydro power wave energy energy transmission distribution and storage energy efficient lighting buildings energy sustainability hydrogen and fuel cells energy policy for new and renewable energy technologies and education for sustainable energy development

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**Energy Transition** Syed Abdul Rehman Khan, Mirela Panait, Felix Puime Guillen, Lukman Raimi, 2022-08-29 This book opens up a critical dimension of energy transition taking in account multidimensional challenges on economic social and environmental fields The book discusses the trends in the field of energy transition and evolving practices adopted by public authorities and companies for betterment of environment and society The editors 4 identify directions and challenges involved in the energy transition The novelty of this book is the multidisciplinary approach being presented the economic social and environmental challenges involved in the energy transition The energy transition is accompanied by a complex process of changing attitudes and behaviors of energy consumers and producers The consequences are profound not only economically and environmentally but also socially renewable energy being a solution for energy poverty reduction and development of rural communities Therefore certain social and environmental problems generated by energy poverty are solved by using renewable energy Moreover the complexity of the phenomenon is presented not only in terms of the analysis of the main sources of renewable energy but also the ethical aspects involved in the use of sources such as biofuels In the case of this source the main problem is whether the use of certain agricultural products for the production of biofuels threatens food security especially in rural areas All categories of stakeholders must show responsibility and get involved in this complex process which requires a remarkable technical and financial effort The energy transition can offer innovative solutions through which the impact of economic activity on the environment is minimized and in this way industrial ecology achieves its objectives to support sustainable development The demands imposed by industrial ecology must shape not only the behavior of oil and gas companies but also of entities involved in the production and consumption of renewable energy Given the negative externalities generated companies in the fossil fuel sector have become

increasingly socially responsible their social and environmental performance non financial being presented in detail in the annual sustainability reports to inform stakeholders Therefore this book is an important read not only for scholars but also for those who are interested in ensuring an environmentally sustainable future taking in account energy transition challenges

**Innovation and Sustainability Through Circular Economy in Businesses** Khan, Syed Abdul Rehman,2024-12-03 In recent years the rise of digital technology has empowered firms to enhance their capabilities in managing the environmental impact of human activities enabling them to adopt more sustainable practices Companies are leveraging innovations like data analytics automation and AI to optimize resource use reduce waste and minimize their carbon footprint This shift not only supports environmental goals but also aligns with long term business sustainability by improving efficiency and cost effectiveness By integrating sustainable strategies into their operations firms can address pressing ecological challenges while maintaining robust economic performance As a result businesses are increasingly finding that sustainability and profitability can go hand in hand benefiting both the planet and their bottom line Innovation and Sustainability Through Circular Economy in Businesses discusses innovative business methodologies and approaches supporting sustainability and circular economy It further explores the best practices used in industries Covering topics such as business performance green knowledge management and textile industry this book is an excellent resource for professionals researchers managers leaders academicians and more

Renewable Energy for Sustainable Growth Assessment Nayan Kumar,Prabhansu Prabhansu,2022-02-24 RENEWABLE ENERGY FOR SUSTAINABLE GROWTH ASSESSMENT Written and edited by a team of experts in the field this collection of papers reflects the most up to date and comprehensive current state of renewable energy for sustainable growth assessment and provides practical solutions for engineers and scientists Renewable energy resources RERs are gaining more attention in academia and industry as one of the preferred choices of sustainable energy conversion Due to global energy demand environmental impacts economic needs and social issues RERs are encouraged and even funded by many governments around the world Today researchers are facing numerous challenges as this field emerges and develops but at the same time new opportunities are waiting for RERs utilization in sustainable development all over the globe Efficient energy conversion of solar wind biomass fuel cells and other techniques are gaining more popularity and are the future of energy The present book cross pollinates recent advances in the study of renewable energy for sustainable growth Various applications of RERs modeling and performance analysis grid integration soft computing optimization artificial intelligence AI as well as machine and deep learning aspects of RERs are extensively covered Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library This outstanding new volume Assesses the current and future need for energy on a global scale and reviews the role of renewable energy Includes multiple chapters on biomass and bioenergy Also includes multiple chapters on solar energy and PVs Also includes chapters on fuel cells wind power and many other topics Covers the design and implementation

of power electronics for energy systems Outlines best practices and the state of the art for renewable energy with regard to sustainability Audience Engineers scientists technicians managers students and faculty working in the field of renewable energy sustainability and power system **The Renewable Energy-Water-Environment Nexus** Shahryar

Jafarinejad, Bryan Beckingham, 2023-08-31 The Renewable Energy Water Environment Nexus Fundamentals Technology and Policy explores the connections between renewable energy water and the environment along with their integration in the context of awareness technologies challenges opportunities and solutions The book introduces different renewable energy technologies including the importance of their development use for a sustainable future and their interrelationships In depth chapters then examine specific sub relationships focusing on renewable energy and water renewable energy and the environment and water and the environment Available methods and tools for analyzing the renewable energy water environment nexus including life cycle assessment of renewable energy systems are also covered The last section of the book highlights key technologies and opportunities in the nexus considering areas such as innovative cooling systems for thermoelectric plants to reduce or eliminate the use of water for cooling reduction of water use in biofuels production sea waves for desalination grid management energy storage systems and hydrogen technologies examining the integration of renewable energy water and environment related policies and discussing the application of artificial intelligence and nanotechnology techniques Introduces key technologies for efficient management and the integration of renewables water resources and the environment Provides methods and tools for analyzing the nexus and for evaluating sustainability of renewable energy systems Considers the applications of artificial intelligence and nanotechnology as well as policy

*Sustainable Power Generation* Nikolay Belyakov, 2019-06-12 Sustainable Power Generation Current Status Future Challenges and Perspectives addresses emerging problems faced by the transition to sustainable electricity generation and combines perspectives of engineering and economics to provide a well rounded overview This book features an in depth discussion of the main aspects of sustainable energy and the infrastructure of existing technologies It goes on to evaluate natural resources that are sustainable and convenient forms of energy and finishes with an investigation of the environmental effects of energy systems and power generating systems of the future Other sections tackle fundamental topics such as thermal power nuclear energy bioenergy hydropower challenges and risks to sustainable options and emerging technologies that support global power trends Sustainable Power Generation explores the future of sustainable electricity generation highlighting topics such as energy justice emerging competences and major transitions that need to be navigated This is an ideal reference for researchers engineers and other technical specialists working in the energy sector as well as environmental specialists and policy makers Alternative Energy Resources Pankaj Pathak, Rajiv Ranjan

Srivastava, 2021-01-04 This book reviews alternative and renewable energy resources in order to pave the way for a more sustainable production in the future A multi disciplinary team of authors provides a comprehensive overview of current

technologies and future trends including solar technologies wind energy hydropower microbial electrochemical systems and various biomass sources for biofuel production In addition the book focuses on solutions for developing countries

Conventional energy sources are finite and estimates suggest that they will be exhausted within a few decades Finding a solution to this problem is a global challenge and developing countries in particular are still highly dependent on fossil fuels due to their rapidly growing populations accompanied by a huge growth in primary energy consumption Moreover the most common conventional energy sources coal and petroleum are non sustainable since their combustion exponentially increases greenhouse gas emissions As such there is a pressing need for clean energy based on alternative or renewable resources not only to ensure energy supplies at an affordable price but also to protect the environment

*Sustainability through Energy-Efficient Buildings* Amritanshu Shukla,Atul Sharma,2018-03-20 The book covers chapters ranging from introduction to recent technological challenges case studies of energy efficient buildings with policy and awareness issues fundamentals and present status along with research updates and future aspects on topics focusing on energy efficient construction materials Provides comprehensive information on energy efficient buildings including policy and energy audit aspects with case studies Examines application of PCMs in passive heating and cooling in buildings role of active TES and energy saving potential

*Thermal Energy* Amritanshu Shukla,Atul Sharma,Karunesh Kant,2023-12-22 This book presents the essentials of thermal energy storage techniques along with recent innovations and covers in depth knowledge of thermal energy applications Different aspects of thermal energy storage systems are covered ranging from fundamentals to case studies Major topics covered include application of thermal energy in water heating solar cooking and solar pond thermal energy storage materials for indoor comfort in buildings thermal management of battery hydrogen production reducing carbon footprints and so forth Key features Presents current research and technological updates along with applications and market scenarios in thermal energy storage thermal management and applications of thermal energy Explores sensible latent and thermochemical energy storage aspects Emphasizes the need and adequate utilization of abundant heat energy for clean energy perspectives Reviews use of thermal energy in hydrogen production the oil and gas sector along with market analysis Includes pertinent case studies This book is aimed at researchers and graduate students in energy and mechanical engineering energy storage and renewables

*Energy Security and Sustainability* Amritanshu Shukla,Atul Sharma,2016-10-03 There has been ever increasing interest in understanding the various aspects of available resources and production in terms of need and supply conservation and environmental impacts and so on From the current energy scenario it is very clear that there are serious challenges related in achieving energy sustainability and security worldwide The aim of this book is to present an overview of progress made towards energy sustainability addressing concerns regarding carbon emission and clean energy resources Keeping this in mind the book has chapters on all major energy sources which are being utilized at present along with those having potential prospects for future

**Nano and Biotech Based Materials for**

**Energy Building Efficiency** F. Pacheco Torgal, Cinzia Buratti, S. Kalaiselvam, Claes-Göran Granqvist, Volodymyr

Ivanov, 2016-02-04 This book presents the current state of knowledge on nanomaterials and their use in buildings ranging from glazing and vacuum insulation to PCM composites. It also discusses recent applications in organic photovoltaics, photo bioreactors, bioplastics, and foams, making it an exciting read while also providing copious references to current research and applications for those wanting to pursue possible future research directions. Derek Clements Croome, Emeritus Professor in Architectural Engineering, University of Reading. From the Foreword: Demonstrating how higher energy efficiency in new and existing buildings can help reduce global greenhouse gas emissions, this book details the way in which new technologies, manufacturing processes, and products can serve to abate emissions from the energy sector and offer a cost-effective means of improving competitiveness and drive employment. Maximizing reader insights into how nano and biotech materials such as aerogel-based plasters, thermochromic glazings, and thermal energy adsorbing glass, amongst others, can provide high energy efficiency performance in buildings, it provides practitioners in the field with an important high-tech tool to tackle key challenges and is essential reading for civil engineers, architects, materials scientists, and researchers in the area of the sustainability of the built environment. 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. *Green Manufacturing* Shanmugam Suresh Kumar, Sundaresan Thirumalai

Kumaran, 2025-07-15 Presenting the concept of green manufacturing in a comprehensive manner, *Green Manufacturing* covers green technologies for advanced manufacturing systems and discusses circular economy and waste management. This book presents a transition from conventional manufacturing to green manufacturing and discusses innovative technical ideas for production. It discusses concepts, methods, and strategies for zero waste in manufacturing, implementation, and analysis of clean energy. Includes cutting-edge case studies adopted in the industrial sectors, quoting the need for and importance of supply chain management. Covers additive manufacturing for sustainable design and production and lean manufacturing. Explains nature-inspired biomaterials, renewable biocomposites, circular economy, and waste management. The text is primarily written for senior undergraduates, graduate students, and academic researchers in the fields of manufacturing engineering, production engineering, industrial engineering, mechanical engineering, and aerospace engineering. **Low**

**Carbon Energy Supply Technologies and Systems** Atul Sharma, Amritanshu Shukla, Renu Singh, 2020-05-26 Future energy technologies must embrace and achieve sustainability by displacing fossil carbon intensive energy consumption or capture reuse sequester fossil carbon This book provides a deeper knowledge on individual low and zero carbon technologies in a comprehensive way covering details of recent developments on these technologies in different countries It also covers materials and processes involved in energy generation transmission distribution storage policies and so forth including solar electrical thermal systems energy from biomass and biofuels energy transmission distribution and storage and buildings using energy efficient lighting

*Sustainability Through Green HRM and Performance Integration* Ragazou, Konstantina, Garefalakis, Alexandros, Papademetriou, Christos, Samara, Angeliki, 2024-10-31 For organizations wanting to balance economic success with environmental management sustainability and green human resource management HRM plays a pivotal role By aligning HR practices with sustainable development goals companies can create a culture that prioritizes eco friendly initiatives and responsible resource management This approach enhances employee engagement and retention while driving organizational performance by promoting sustainable practices throughout the workforce As businesses recognize the importance of their environmental impact integrating green HRM into their strategies is necessary to achieve long term sustainability and competitive advantage in an eco conscious marketplace Sustainability Through Green HRM and Performance Integration investigates the relationship between environmental performance and a green high performance work system GPWS specifically focusing on the influence of green ambidexterity and mediating elements such as social environmental and corporate governance issues This book covers topics such as sustainable development employee engagement and digital technology and is a useful resource for human resource professionals environmental scientists business owners computer engineers academicians and researchers

**Nanotechnology in Eco-efficient Construction** Fernando Pacheco-Torgal, Maria Vittoria Diamanti, Ali Nazari, Claes Goran-Granqvist, Alina Pruna, Serji Amirkhanian, 2018-11-22 Covering the latest technologies Nanotechnology in eco efficient construction provides an authoritative guide to the role of nanotechnology in the development of eco efficient construction materials and sustainable construction The book contains a special focus on applications concerning concrete and cement as nanotechnology is driving significant development in concrete technologies The new edition has 14 new chapters including 3 new parts Mortars and concrete related applications Applications for pavements and other structural materials and Toxicity safety handling and environmental impacts Civil engineers requiring an understanding of eco efficient construction materials as well as researchers and architects within any field of nanotechnology eco efficient materials or the construction industry will find this updated reference to be highly valuable Addresses issues such as toxicity and LCA aspects New chapters covering safety handling on occupational exposure of nanoparticles and the assessment of personal exposure to airborne nanomaterials Discusses the effects of adding nano particles on the durability and on the properties of geopolymers

**International**



**Perspectives on Value Creation and Sustainability Through Social Entrepreneurship** Magd, Hesham, Singh, Dharmendra, Syed, Raihan Taqui, Spicer, David, 2022-05-27 Social entrepreneurship is construed an innovative activity that addresses or mitigates social issues based on self sufficiency and financial stability It offers the potential to shift civil society through innovative social ventures that pursue profit and purpose It is gaining international attention due to the intent of social entrepreneurs to change and to see the world as it can be not as it is These changemakers blend lessons from business with the diversity and complexity of social values and in the process pursue opportunities for change International Perspectives on Value Creation and Sustainability Through Social Entrepreneurship explores various issues and ideas about social entrepreneurship through the lens of theoretical practical and empirical research It provides an international outlook of social entrepreneurship focusing primarily on value creation and sustainability Covering topics such as entrepreneurship education post COVID perspectives and private wealth this premier reference source is an essential resource for entrepreneurs business leaders managers government officials policymakers libraries students and faculty of higher education researchers and academicians

Emerging Energy Alternatives for Sustainable Environment D. P. Singh, Richa Kothari, V. V. Tyagi, 2019-02-14 Sustainability of environment is an emerging global issue at present Unsustainable or deteriorating environment is a matter of concern as it has threatened the survival of living creatures Recently climate change has been a matter of great concern at a global platform owing to imbalances in natural environment Increasing population has increased the demand for energy which has ultimately put pressure on natural resources and caused a paradigm shift from resource generation to exploitation Emerging Energy Alternatives for Sustainable Environment aims to address the role of sustainable technologies in energy generation options for clean environment It covers a wide spectrum of energy generation approaches with an emphasis on five key topics i renewable energy sources and recent advances ii emerging green technologies for sustainable development iii assessment of biomass for sustainable bioenergy production iv solid waste management and its potential for energy generation and v solar energy applications storage system and heat transfer This book provides essential and comprehensive knowledge of green energy technologies with different aspects for engineers technocrats and researchers working in the industry universities and research institutions The book is also very useful for undergraduate and graduate students of science and engineering who are keen to know about the development of renewable energy products and their corresponding processes Please note This volume is Co published with The Energy and Resources Institute Press New Delhi Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

**Routledge Handbook of Energy in Asia** Subhes Bhattacharyya, 2017-10-12 The Routledge Handbook of Energy in Asia presents a comprehensive review of the unprecedented growth of Asian energy over the past quarter of a century It provides insightful analysis into variation across the continent whilst highlighting areas of cross learning and regional cooperation between the developed and developing countries of Asia Prepared by a team of leading international

experts this book not only captures the East Asian domination particularly that of China but also highlights the growing influence of South Asia and the ASEAN Organised into four parts the sections include the demand for energy in the region and its main drivers at the sector level developments in energy supply including fossil fuels and renewable energy sources energy policies and issues such as sector reform and climate change the transition to a low carbon pathway This handbook offers a complete picture of Asian energy covering supply and demand as well as contemporary challenges in the sector As such it is a valuable resource for students and scholars of energy policy Environmental Studies and Asian Studies

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