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This book presents select proceedings of the international conference on Innovations in Clean Energy Technologies (ICET 2020) and examines a range of durable, energy efficient and next-generation smart green technologies for sustainable future by reflecting on the trends, advances and development taking place all across the globe. The topics covered include smart technologies based product, energy efficient systems, solar and wind energy, carbon sequestration, green transportation, green buildings, energy material, biomass energy, smart cities, hydro power, bio-energy and fuel cell. The book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint. The book will be a valuable reference for

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beginners, researchers and professionals interested in clean energy technologies.

Advances in Clean Energy Technologies presents the latest advanced approaches toward a cleaner and more sustainable energy environment. Editor Kalam Azad and his team of expert contributors focus on recent developments in the field of clean energy technologies, sustainable zero emission resources, energy efficiency and environmental sustainability, as well as clean energy policy and markets. This well-rounded reference includes an authoritative view on control and storage solutions specific to medium and large-scale industries, advanced approaches to

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Modeling, and experimental investigations on clean energy technologies. Those working in and researching clean energy and sustainability will obtain detailed understanding of a variety of zero emission energy production and conversion approaches, as well as important socio-economic and environmental considerations that can be applied to their own unique power generation settings. Presents an exclusive analysis on advanced approaches of modeling and experimental investigations of clean energy technologies, including solar, wind, ocean, and hybrid systems Includes an authoritative and cross-disciplinary view on energy policy and energy markets Helps readers develop an understanding of concepts and solutions to global issues surrounding

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literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or

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This book highlights the present scenario of energy demand and power generation technologies in tropical countries. The tropics are well known to receive direct sunlight. Furthermore, different than four-season countries, tropical countries have a continuous summer-like season, and therefore, they are rich in clean energy sources, like solar and biomass. Home to 40% of the world's population, the demand for energy in these countries keeps increasing. With the present serious global concern on the environment, the choice of power generation is no doubt the cleanest possible resources. This book delves into the opportunity that various tropical countries have in pursuing environmentally friendly power generation systems.

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This book provides readers with an overview of recent theories and methods for studying complex mechanical systems used in energy production, such as wind turbines, but not limited to them. The emphasis is put on strategies for increasing energy efficiency, and on recent industrial applications. Topics cover dynamics and vibration, vibroacoustics, engineering design, modelling and simulation, fault diagnostics, signal processing and prognostics. The book is based on peer-review contributions and invited talks presented at the first International Workshop on MOdelling and Simulation of COmplex Systems for Sustainable Energy Efficiency, MOSCOSSEE 2021, held online on February 25-26, 2021, and organized by the LAboratory of Mechanics,

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Modelling and Production (LA2MP) from University of Sfax, Tunisia and the Department of Mechanical and Aeronautical engineering, Centre of Asset Integrity Management (C-AIM) from University of Pretoria, South Africa. By offering authoritative information on innovative methods and tools for application in renewable energy production, it provides a valuable resource to both academics and professionals, and a bridge to facilitate communication between the two groups.

Cleaner Combustion and Sustainable World is the proceedings of the 7th International Symposium on Coal Combustion which has a significant international influence. It concerns basic research on coal combustion and clean utilization, techniques and

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equipments of pulverized coal combustion, techniques and equipments of fluidized bed combustion, basic research and techniques of emission control, basic research and application techniques of carbon capture and storage (CCS), etc. Professor Haiying Qi and Bo Zhao both work at the Tsinghua University, China

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