The Institution of Engineering and Technology

September 2025

Renewable energy:

An online reading list from the IET Library

These eBooks and ejournals, available via the IET Library, have been selected on the subject of renewable energy. They cover topics such as energy systems, sustainability and wind power.

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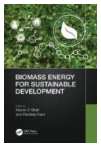
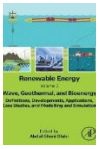
Contents

eBooks

Alternative energy sources

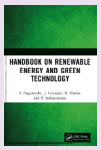


Biomass Energy for Sustainable Development, Maulin P. Shah and Pardeep Kaur. (2024). This book provides a comprehensive review of biomass energy and the sustainable development goals related to bioenergy and its environmental impacts.

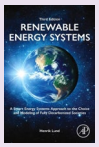


Renewable Energy – Volume 2: Wave, Geothermal, and Bioenergy : Definitions, Developments, Applications, Case Studies, and Modelling and Simulation, Abdul Ghani Olabi. (2024). A detailed guide to geothermal, wave, and bioenergy systems, featuring definitions, case studies, modelling techniques, and practical applications.

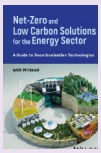
Energy systems



Handbook on Renewable Energy and Green Technology, S. Pugalendhi et al. (2024). This book explores how we can use the sun, wind, biomass, geothermal, tidal and water resources to generate energy in a more sustainable form.



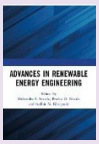
Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of Fully Decarbonized Societies, Henrik Lund. (2024). Offers a methodology for analysing and designing fully decarbonised energy systems.



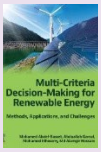
Net-Zero and Low Carbon Solutions for the Energy Sector : A Guide to Decarbonization Technologies, Amin Mirkouei. (2024). A resource for business professionals, academics, and policy makers who contribute to net-zero emissions targets.

The Science of Green Energy, Frank R. Spellman. (2024). A practical guide to green energy technologies and applications focused on the renewable energy transition.

Renewable Energy: Generation and Application, Ala Hussein. (2024). An overview of renewable energy technologies including solar, wind, hydro, geothermal, and biomass.

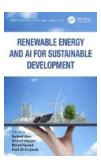


Advances in Renewable Energy Engineering, Mahendra S. Seveda et al. (2025). A comprehensive overview of renewable energy technologies including solar, wind, hydro, bioenergy, and fuel cells.



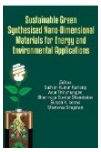
Multi-Criteria Decision-Making for Renewable Energy: Methods, Applications, and Challenges, Mohamed Abdel-Basset et al. (2024). A detailed exploration of fuzzy and soft computing techniques in renewable energy decision-making.

Sustainability

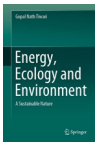


Renewable Energy and AI for Sustainable Development, Sailesh Iyer et al. (2023). A comprehensive guide to green computing, e-waste management, and AI-based sustainable energy solutions.

Ceramic Hydrogen Storage Materials: High Storage Density Candidates for Sustainable Green Energy, Navid Hosseinabadi. (2025). This book explores the physical and chemical properties of ceramic nanostructures for hydrogen storage.

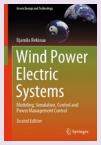


Sustainable Green Synthesised Nano-Dimensional Materials for Energy and Environmental Applications, Sathish-Kumar Kamaraj et al. (2025). Explores eco-friendly chemical routes for producing nanomaterials aligned with UN sustainability goals.

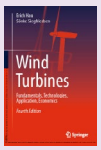


Energy, Ecology and Environment: A Sustainable Nature, Gopal Nath Tiwari. (2024). This book addresses climate change, renewable energy sources, environmental cycles, and sustainable ecology.

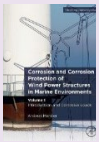
Wind power



Wind Power Electric Systems: Modeling, Simulation, Control and Power Management Control, Djamila Rekioua. (2024). An updated second edition covering modelling, control techniques, grid integration, and energy storage for wind power systems.



Wind Turbines: Fundamentals, Technologies, Application, Economics, Erich Hau and Sönke Siegfriedsen. (2025). This fourth edition offers a comprehensive cross-disciplinary overview of modern wind turbine technology, covering technical, economic, and environmental aspects.



Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments: Volume 1: Introduction and Corrosive Loads, Andreas Momber. (2024). Provides a comprehensive review of corrosion phenomena and protection strategies for offshore wind power structures.

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments: Volume 2: Corrosion Protection Measures, Andreas Momber. (2024). Covers corrosion phenomena and protection measures for offshore wind power structures in marine environments.

eJournals

International Journal of Green Energy (Covers all aspects of energy and energy technologies and advanced technologies for energy conversion and power generation.)

International Journal of Photoenergy (Consolidates research activities in chemistry, physics and technology of photochemistry, and solar energy utilisation.)

Wind Engineering (Devoted to the technology of wind energy; includes papers on the aerodynamics of rotors and blades, machine subsystems and components.)

Energy, Sustainability & Society (Covers various aspects of energy production, energy sources and power generation with a focus on sustainability.)

International Journal of Sustainable Energy (Covers biomass, wave generators and wave power. Examines experimental, theoretical, and applied results.)

Worldwide Energy (Provides news & information on all types of energy sources and applications including renewables.)