

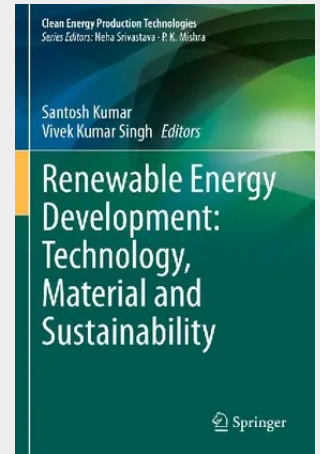
Renewable Energy Development: Technology, Material and Sustainability

This edited volume is a comprehensive guide to understanding and harnessing the power of renewable energy for a sustainable future. In a world dealing with the urgent need to combat climate change and reduce our dependence on fossil fuels, this book provides a new perspective on renewable energy. It is filled with cutting-edge research and practical insights, exploring the technologies, advanced materials, and sustainability practices driving the renewable energy revolution.

Renewable energy resources are developing the latest advancements in solar, wind, hydro, geothermal, biomass, tidal, and wave energy technologies. This book is unique and opens a new window on classic renewable energy sources as well as new developments in technology, advanced material innovation, and sustainability aspects leading with various factors such as energy storage, transmission, institutional and economic factors, renewable energy application in smart cities, building and other solar thermal applications, environmental aspects, electrical energy generation, and climate change mitigation potential to achieve net-zero targets.

This book is of interest to teachers, researchers, climate change scientists, capacity builders, and policymakers. Additionally, the book serves as an additional reading material for undergraduate and graduate students of sustainable energy, engineering, material science, and environmental sciences. National and international energy, sustainable and material scientists, managers, and policymakers will also find this to be a useful read.

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