

Special Issue

Renewable Energy Sources and Sustainability

Message from the Guest Editor

The role of renewable energy resources is indubitable to meet the global milestone of mitigated carbon and affordable clean energy for an environmentally sustainable world. Recent trends in the rapid production and integration of renewable energy sources such as solar, wind, geothermal, and hydro energy have stimulated the formation of distributed energy systems. Isolated and grid-connected microgrids are burgeoning to avail the propitious opportunities of these energy resources. The sporadic characteristic of renewables is of substantial research interest to the researchers, which are currently addressed by amalgamating single and hybrid energy storage systems. By virtue of cutting-edge power electronics, advanced control systems, and efficient algorithms, smart grids facilitate impeccable energy coordination and demand-side management, ensuring secure and stable grid operation in compliance with grid code and local policy. The integration of renewable energy resources is also thriving in electric vehicles, net-zero buildings, and sustainable manufacturing to alleviate climate change and eradicate carbon footprints.

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