

Special Issue

Sustainable Power Systems: Energy Storage, Renewable Integration, and Smart Grid Technologies

Message from the Guest Editors

This Special Issue, “Sustainable Power Systems: Energy Storage, Renewable Integration, and Smart Grid Technologies”, aims to explore innovative strategies and technologies that promote the sustainable transformation of modern power systems. Its focus is on improving energy efficiency, reducing carbon emissions, and integrating renewable energy sources through advanced control and power electronics. Its scope includes smart grid technologies, energy storage systems, sustainable electrification, and digital control solutions that enhance the performance and resilience of power infrastructures. This Special Issue will supplement existing literature by emphasising practical and quantitative approaches to sustainability, including tools for assessing energy efficiency, policies supporting low-carbon systems, and applications of sustainable technologies in real-world scenarios. It contributes to sustainability by linking scientific innovation with societal impact, thereby fostering cleaner and smarter energy systems that support a sustainable future. We invite authors to submit original research that supports the development of sustainable power systems

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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