

Special Issue

Advanced Research on the Smart Grid and Sustainable Power Systems

Message from the Guest Editors

This Special Issue, 'Advanced Research on the Smart Grid and Sustainable Power Systems', focuses on innovative technologies and methodologies that enable a more resilient, intelligent, and low-carbon power infrastructure. The Issue aims to advance the integration of renewable energy, energy storage, and digital intelligence into modern power systems, addressing the urgent need for sustainability and energy equity. Its scope covers emerging topics such as grid-forming converters, coordinated control of distributed energy resources, data-driven operation and optimization, cyber-physical system resilience, and carbon-neutral grid planning. By bridging power electronics, information technology, and energy management, this Issue seeks to fill the gap between traditional grid operation and the next-generation sustainable smart grid paradigm.

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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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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