

Special Issue

Smart Grid Technology Contributing to Sustainable Energy Development

Message from the Guest Editor

In this Special Issue, original research articles and comprehensive review papers are welcome, and research areas may include, but are not limited to, the following topics: (1) Virtual power plants (VPPs) and their role in grid stability and ancillary services; (2) Smart metering, data analytics, and energy demand forecasting; (3) Integration of distributed energy resources (DERs) and energy storage systems; (4) AI and machine learning for smart grid optimization and real-time control; (5) Grid automation, self-healing networks, and fault detection; (6) Demand-side management and flexible consumption strategies; (7) Resilient microgrids and decentralized energy systems; (8) Power quality monitoring and control in renewable-integrated grids; (9) Smart grid cybersecurity and data privacy challenges; (10) Policy, regulatory, and economic frameworks for smart grid deployment; (11) Digital twins and simulation platforms for smart grid operation and planning; (12) IoT-enabled grid infrastructure and interoperable communication protocols.

Guest Editor

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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. *Sustainability* publishes original research articles, review 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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