

Special Issue

Smart Grid Technologies and Energy Sustainability

Message from the Guest Editors

The world is advancing towards sustainable energy targets to meet the UN's sustainable development goals and ensure access to affordable, reliable, and clean energy. The smart grid is a diverse integration of different technologies that facilitate grid resiliency, cost reduction, emission reduction, energy transaction, and market participation to enhance the affordability, reliability and sustainability of the energy network. With the greater integration of RE sources with power electronic converters, the power grid is also associated with numerous challenges related to generation, distribution, operation, management, protection, power quality, reliability, and cyber security. This Special Issue welcomes the submission of studies related to smart grid technologies to ensure energy sustainability. This Special Issue will accept original and review research articles that address the following topics:

- Smart grid energy resources;
- Smart grid structures;
- Smart grid control, operation, and management;
- Smart grid security and policy.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2025)



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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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