

Special Issue

Smartgrids and Microgrids Based on Renewable Sources

Message from the Guest Editors

This Special Issue aims to present a collection of original, novel contributions focused on improving the current technologies in the microgrid field in a sustainable manner. Topics of interest include, but are not limited to, the following:

- Sustainable power generation systems with renewable energy sources (PV, wind, biomass, water, among others);
- Hybrid sustainable systems based on renewable energies;
- Storage systems (lead-acid batteries, Li-ion batteries, and others);
- Microgrid power electronics;
- Microgrid design;
- Off-grid and grid-tied power generation systems;
- Metaheuristic algorithms and methods applied to microgrids (e.g., Artificial Neural Networks, Fuzzy Logic, Nature and Bio-inspired Optimization Algorithms, and others);
- Microgrid cybersecurity (Internet of Energy, Blockchain, digital signatures, Data Encryption Algorithms, and others);
- Microgrid economic analysis;
- Information and communications technologies (ICT) in microgrids;
- Energy prosumers;
- Microgrid demand response;
- Power generation in developing countries through microgrid systems based on renewable energies.

Guest Editors

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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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