



Smartgrids and Microgrids Based on Renewable Sources

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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.





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Message from the Editor-in-Chief

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