



Renewable-Based Microgrids: Design, Control and Optimization

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Message from the Guest Editors

This Special Issue aims to cover the most recent advances in the optimization, design, and control of microgrid systems with high penetration of renewable sources and the involved technologies, thus collecting innovative and original works alongside literature reviews and comparative studies. Topics of interest include, but are not limited to, the following:

- Optimal design of renewable-based microgrids
- Developing and applying recent optimization techniques for renewable-based microgrids
- Hybrid power systems based on renewable energies
- Energy management in microgrids with renewable energy sources
- Energy management tools for renewable-based microgrids
- Modeling and control of microgrid
- Communication infrastructures for renewable-based microgrids
- Hybrid energy storage system for microgrids
- Multi-energy microgrids
- Weather and demand forecasting methods
- Microgrid security assessment
- Clean mobility integration in microgrids
- Power electronics for renewable-based microgrids
- Microgrid clusters and energy markets





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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