

## Special Issue

# Hybrid Modeling, Stability Analysis, and Control Design of Future Microgrids with Distributed Renewable Energy Sources Integration

### Message from the Guest Editors

This Special Issue encourages researchers to advance the state-of-the-art studies from hybrid modeling, stability analysis, and control design perspectives. The research topics include but are not limited to the following:

- Advanced sustainable energy development
- Hybrid modeling of microgrids
- Stability analysis of hybrid energy systems
- Data-driven monitoring and control for smart grids
- Autonomous power inspection robotics
- Operation and protection of solar PV system
- Integration of new energy in urban design
- Consumer behavior in new energy
- Fault detection and diagnosis of power grid equipment
- Condition monitoring and performance evaluation

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### Guest Editors

Dr. Zhijian Hu

Dr. Renjie Ma

Dr. Shumei Zhang

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### Deadline for manuscript submissions

closed (4 July 2025)



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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