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Energy Management of Renewable Integrated Microgrid Systems: Future Trends and Challenges

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

This Special Issue focuses on the evolving landscape of renewable integrated microgrid systems. Our objective is to provide a comprehensive platform for discussing the latest advancements, future trends, and emerging challenges in this rapidly evolving field.

We invite contributions that explore innovative strategies in energy management, modeling, operation and control, emphasizing the integration of renewable energy sources into microgrid systems. Topics of interest include, but are not limited to, the following:

- Advanced control strategies for microgrids
- Power converters control and robustness in less-inertia microgrids
- Grid resiliency and reliability
- Energy storage solutions
- Economic and market analysis
- Regulatory and policy frameworks
- Environmental impact assessments
- Technological integration with IoT, AI and blockchain
- Socio-economic impacts
- Distributed generation and resource optimization
- Energy security and independence

This Special Issue aims to help bridge the gap between theoretical research and practical applications, providing insights that can guide future innovations and policy-making in the field of renewable energy and hybrid systems.

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Message from the Editor-in-Chief

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