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Challenges with Microgrids, Mini-Grids, and Nanogrids in Remote Communities: Modeling, Control, and Operation

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to encourage researchers and practitioners to share and exchange their original and high-quality research (new theories, methods, techniques, and applications) in the fields of the new generation of hybrid renewable energy, electrical power, renewable energy integration, and electric vehicles systems related to the aforementioned topics. In particular, potential topics include but are not limited to:

Smart grids, nanogrids, minigrids, and microgrids;

Strengthening the power grid through smart hybrid systems;

Challenges in the new generation of hybrid energy systems;

New operation and maintenance strategies for power systems;

Resilience of hybrid electric power systems;

Modelling, sizing, and design of microgrids;

Smart grid self-healing;

Performance analysis of hybrid energy systems;

Advanced control techniques;

Electric vehicles and their systems;

Reliability analysis;

Special Issue



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Power system management;

Implementation and modern optimization techniques
algorithms for microgrids systems.

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Message from the Editor-in-Chief

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