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Renewables-Based Microgrids

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Deadline for manuscript submissions:

closed (30 June 2021)

Message from the Guest Editors

The recent improvements concerning renewable energy-based power systems and microgrids have driven the interests of the major research and industrial players. Therefore, this Special Issue of the *Energies* aims at collecting the most up-to-date advancements concerning research and innovation on renewables-based microgrids. The main topics of interests are related (but not limited to) the following:

Energy management of micro-grids;
Optimal control of renewable energy-based power systems;
Power-to-gas plants with renewable energies;
Synergies between renewable microgrids and electrified mobility;
Micro-grids integrated with hydrogen generation and storage;
The highly resilient design of multi-load reversible fuel cell-based microgrids;
Solid oxide cells (SOCs) for power-to-gas and gas-to-power uses in microgrids;
CO₂ emissions reduction strategies in microgrids;
Fuel consumptions minimization strategies in microgrids;
Optimal management of solar panels and wind turbines in microgrids.



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Special Issue



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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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