

Special Issue

Advanced Operation, Control, and Optimization of Grid-Integrated Renewable Energy Systems

Message from the Guest Editors

The Special issue will focus on all aspects related to the grid integration of RES into the modern grid. The topic of interest are: 1. Concentrated/diffused integration of RES for rural and urban areas;

2. Virtual grid for the vehicle to grid and grid to vehicle fast charging of EVs;

3. AC/DC microgrids and hybrid distribution system (DC and AC) integrated RES;

4. Effect of increasing penetration of RES on voltage and frequency stability of the existing grid;

5. Grid integration of RES via grid-supporting and grid-forming inverters;

6. Advanced/hybrid and AI-based controls of DC–DC converters, DC–AC inverters;

7. Optimization-based controls of RES for efficiency improvements;

8. Hybrid energy storage systems and battery management systems for RES.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)



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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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