Special Issue

Smart Grids and Microgrids: From Simulations to Experimentation

Message from the Guest Editors

Green energy transition is a major global goal to reduce emissions of pollutants and greenhouse gases and establish alternatives to expensive fossil fuels. Smart grids and microgrids are promising solutions as they can integrate renewable energy sources and work in islanded configurations. However, they require high-performing controls to ensure continuity of service in any operating condition. This Special Issue aims to collect the most up-to-date experiences evolving from classical simulations to real-life engineering applications. Topics of interest for publication include, but are not limited to:

- Energy Management Systems for grid-connected microgrids;
- Tools for microgrid participation in energy markets;
- Digital twins of smart grids, microgrids, RES and, more generally, power distribution systems;
- Machine Learning tools for smart grids and microgrids;
- Real-time simulations for power production systems.

Guest Editors

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Deadline for manuscript submissions

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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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