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Optimization and Energy Management in Smart Grids

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Message from the Guest Editor

Smart Grids (SG) needs to consider all sides of the power grid, making it more innovative and more flexible. This idea can be represented by four pillars: generation optimization, transmission optimization, distribution optimization, and demand side management. In generation optimization, topics such as (but not limited to) wind farm and other non-conventional sources, dispatching scheduling optimization, the use of distributed generation, and fuel cells are welcome in this Special Issue. In the transmission optimization area, possible topics include the phasor measurement technique, wide area measurement, flexible AC transmission system, adoptive islanding, self-healing grids, probabilistic and dynamic stability assessment, substation monitoring, and control, among others. The papers of this Special Issue should focus on the optimization of the electrical grid process and on contributing to better practices in SG and how the explained process could benefit toward a more effective management of SG, such as reduced cost of energy, reduced stress on the electric energy infrastructure, and improved energy efficiency.



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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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