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Research on Power System Control and Optimization

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Message from the Guest Editors

Due to the widespread use of renewable energy and microgrids, the issues associated with stable power control, optimal energy management, and the power dispatch of interconnected microgrids have been of great concern. The unsuitable energy arrangement and power dispatch strategy may introduce additional power loss for the interconnected microgrids or power systems, and the insufficient performance of control response would easily lead to the tripping of the power grid and reduce the usage life of the power system equipment. Therefore, improving the robustness of power quality in system control and the optimization of energy management and dispatch have become important issues for both utilities and customers.

This Special Issue aims to present important results of work related to power control and optimization in the smart grid, microgrid, renewable energy, power electronics, electric vehicles and energy management techniques, modernization of power system, energy storage, and their various applications. The works can be applied research, the development of new algorithms or components, original applications of existing knowledge, or new facilities applied to power systems.



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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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