

Special Issue

Intelligent Operation and Management of Microgrids, 2nd Edition

Message from the Guest Editors

The rapid changes in generation combined with the increased load growth have introduced new complexities in traditional power system networks. The advancement of information and communication technologies as well as the innovation of intelligent devices enable better controllability and coordination of power system networks. Thus, traditional power grids are undergoing significant changes toward their inevitable transformation to smart power grids. In addition, the advancement of distributed generation technologies allows consumers to take up the role of prosumers and meet local energy demand with local generation. As a result, there has been a massive growth in microgrid technologies, which can be considered miniature versions of the traditional power grid. The reliable and efficient operation of microgrids very often depends on how effectively the challenges associated with renewable energy sources, energy management, and intelligent communication technologies are defined. In this Special Issue, advances in smart grid and microgrid will be explored from different perspectives.

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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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