Special Issue

Demand Response in Smart Grids

Message from the Guest Editors

The concepts of demand response and smart grids are two rather wide-scope and key topics in the operation of power and energy systems. Although new demand response approaches appear every day, more work is needed to catch its full potential, bringing advantages for all the involved players. The successful implementation of smart grids requires the widespread use of demand response not only by gathering the flexibility of large and medium consumers but also targeting small-size consumers. Effective approaches are needed to put in place adequate strategies and methods to design and manage demand response. As part of the power and energy ecosystem, demand response is a very valuable resource which, when coordinated with the increasing penetration of renewable energy and market-driven business models, can significantly increase the system efficiency while keeping energy costs at reasonable levels. This Special Issue will address all aspects related to demand flexibility, demand response, and their importance for efficient smart grids.

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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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