Special Issue

Operational Optimization of Networked Microgrids

Message from the Guest Editors

The widespread and rapid proliferation of distributed energy resources such as wind and solar has a far-reaching impact on traditional power system paradigms and broad implications for the entire power grid. The pressing concerns when considering microgrids are the following: due to the presence of the intermittent renewables, 1) the time resolution of the associated operation optimization problems can no longer be 1 hour as in traditional grids, but rather, much shorter time periods are advised to accommodate for the fluctuations in demand; 2) the number of stochastic levels to capture low-probability high-impact events is expected to grow significantly; and 3) nonlinear AC power flow is needed to obtain feasible schedules of the microgrids.

This Special Issue is focused on 1) identifying current and potential issues and advantages of networked microgrids; and 2) developing efficient solutions methodologies to efficiently manage and coordinate networked microgrids.

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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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