

Special Issue

Optimal Operation and Control of Microgrid Systems

Message from the Guest Editor

Optimal operation and control of microgrids are required to operate the microgrids in a stable and an economic way. The upper level control (operation) is required for the economic scheduling and dispatch of the power sources. At the operation level, integration of demand response, electric vehicles, and energy storage are considered, and the optimization is carried out with several objectives, such as cost minimization, emission minimization, service reliability maximization, etc. The lower level control is responsible for maintaining stabilities and improving the power qualities of microgrids. Advanced control techniques play an important role in achieving a reliable, robust, and economic operation of microgrid systems. Optimal operation and control of microgrids has been an active research area for the last decade. This Special Issue will deal with novel optimization and control techniques for microgrids. Topics of interest for publication include, but are not limited to:

- Optimal operation of microgrids in grid-connected and islanded modes
- Optimal operation for off-grid microgrids...

Guest Editor

Prof. Dr. Hak-Man Kim

Department of Electrical Engineering, Incheon National University,
Incheon 13557, Korea

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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