



Planning, Operation and Control of Microgrids

Guest Editor:

Prof. Dr. Federico Martin Serra

Laboratory of Automatic Control (LCA), Faculty of Engineering and Agricultural Sciences, National University of San Luis—CONICET, Villa Mercedes, San Luis 5730, Argentina

Deadline for manuscript submissions:

closed (20 February 2024)

Message from the Guest Editor

This Special Issue has the aim of presenting recent developments in the planning, operation, and control of microgrids and their applications. The topics of interest include, but are not limited to:

- Microgrid optimization, planning, and control;
- Modeling, analysis, and control of DC and AC microgrids based on renewable energy sources;
- Analysis and operation of grid-connected, isolated, and hybrid microgrids;
- Modeling and control of low-power and high-power converters for microgrids and smart grid applications;
- Integration of microgrids in the electric power system;
- Integration of electric vehicles in microgrids;
- Design of control and management strategies of microgrids and smart grids;
- Integration of energy storage systems based on battery, supercapacitor, and superconducting coils in microgrids;
- Optimization algorithms for energy management and intelligent control of microgrids;
- Ancillary services of microgrids;
- Diagnostics, maintenance, reliability, vulnerability, and self-healing of microgrids.





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)