

Special Issue

Latest Advances and Prospects in Microgrids

Message from the Guest Editor

Microgrids (MGs) can effectively integrate renewable energies and provide a reliable power supply for local loads. With the continuous expansion of the scale of MGs, issues such as hierarchical control, optimal operation, configuration, and protection are worthy of further in-depth research. Meanwhile, interface converters for DC, AC and hybrid DC/AC MGs are essential for the realization of electric energy conversion and for connecting different units to the DC/AC bus of MGs or connecting adjacent MG clusters. The aim of this Special Issue is to present high-quality papers focusing on the latest advances in and prospects of MGs. We encourage you to submit articles related to the aforementioned topics.

Guest Editor

Dr. Panbao Wang

School of Electrical Engineering and Automation, Harbin Institute of Technology, Harbin 15000, China

Deadline for manuscript submissions

closed (30 April 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/185901

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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

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)