

Special Issue

Microgrids and the Integration of Energy Storage Systems

Message from the Guest Editors

Decarbonization of the utility grid, market integration, consumer empowerment, and technical innovations all are key objectives in the international energy policy for the coming decades. Grid integration constraints are limiting the deployment potential of renewable energy sources (RESs). Therefore, while RESs are essential components to reach the key objectives, energy storage is the enabler that facilitates the integration of RESs in a cost-effective and flexible manner. The diversification of RES generation and integration of energy storage in modern power systems are also leading to the formation of island microgrids and microgrid clusters/communities for more reliable and sustainable electricity networks. This [Special Issue](#) aims to publish high-quality research and review papers related to microgrids and energy storage systems. Topics of interest for publication include but are not limited to:

- Integration of RES;
- Behind-the-meter energy storage systems;
- Utility-scale storage systems;
- AC/DC microgrids;
- Island microgrids;
- Microgrid clusters/communities;
- Ancillary Services under high variable RES penetration;
- Maritime microgrids.

Guest Editors

Dr. Alexander Micallef

Department of Electrical Engineering, Faculty of Engineering, University of Malta, MSD 2080 Msida, Malta

Prof. Dr. Zhaoxia Xiao

School of Electrical Engineering, Tiangong University, Tianjin 300387, China

Deadline for manuscript submissions

closed (5 June 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/104775

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)