

Special Issue

Advanced Control and Operation of Microgrids and Power Distribution Systems

Message from the Guest Editors

This Special Issue primarily focuses on the latest research concerning state-of-the-art technologies for the control and operation of microgrids and distribution systems. Topics of interest for publication include, but are not limited to:

- Microgrids;
- Power distribution systems;
- Distributed energy resources;
- Integration of renewable energy resources;
- Optimization of operation;
- Energy storage systems;
- Smart charging and discharging of electric vehicles;
- Advanced distribution management systems (ADMS);
- Distributed energy resources management systems (DERMS);
- Virtual power plants;
- Demand side management;
- Distribution system operator (DSO);
- Machine learning and AI for power systems.

Guest Editors

Prof. Dr. Il-Yop Chung

School of Electrical Engineering, Kookmin University, Seoul 02707, Republic of Korea

Prof. Dr. Seon-Ju Ahn

Department of Electrical Engineering, Chonnam National University, Gwangju 61186, Republic of Korea

Deadline for manuscript submissions

closed (5 August 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/181737

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)