

## Special Issue

# Microgrid Design and Operation for Carbon Emission Reductions

### Message from the Guest Editors

Dear colleagues,

This Special Issue aims to collect research articles devoted to the design and operation of microgrids, providing a significant carbon emission reduction.

As the guest editors, we are pleased to invite you to submit your relevant research results that will be considered for publication in the *Energies* Special Issue on “Microgrid Design and Operation for Carbon Emission Reductions”.

The topics to be addressed in the Special Issue include (but are not limited to):

- Hybrid system operation planning for CO<sub>2</sub> emission minimization;
- Energy efficiency improvement in microgrids;
- Clean energy storage systems;
- Renewable energy sources based off-grid power system design;
- Utilizations of renewable energy sources for supplying EV charging stations;
- Lifecycle analysis of EVs;
- Influence of EV charging station penetration on microgrid operation.

---

### Guest Editors

Dr. Goran Knežević

J. J. Strossmayer University of Osijek, Faculty of Electrical Engineering, Computer Science and Information Technology Osijek, K. Trpimira 2B, 31000 Osijek, Croatia

Prof. Dr. Danijel Topić

Faculty of Electrical Engineering, Computer Science and Information Technology, Osijek, Croatia

---

### Deadline for manuscript submissions

closed (31 October 2021)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/41705](https://mdpi.com/si/41705)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto: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)