

## Special Issue

# Operation and Optimization of Renewable Energy Power System

### Message from the Guest Editors

The volatility and unpredictability of electricity production from wind and solar presents a serious challenge for the operation and optimization of power systems. Future decarbonized and decentralized power systems will have to convert from today's load following to generation following. This will require tremendous changes in the way power systems are operated, demanding new sources of power system flexibility and adequate technology solutions to cope with the high level of power system decentralization. This Special Issue focuses on the future challenges in the operation of power systems with a high share of renewable energy sources, and the corresponding solutions in terms of the development of different optimization algorithms and technology innovations.

---

### Guest Editors

Dr. Vedran Kirincic  
Dr. Tomislav Plavsic  
Dr. Vladimir Valentic  
Dr. Marko Mimica

---

### Deadline for manuscript submissions

closed (31 May 2024)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/149263](https://mdpi.com/si/149263)

*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)