

## Special Issue

# Operation, Control, and Planning of New Power Systems

### Message from the Guest Editors

To realize the strategic goals of "Carbon Peak and Carbon Neutrality," constructing a new power system with renewable energy as its main component has become the core direction of China's energy transition. The system is undergoing a dual transformation characterized by a \*\*high penetration of renewable energy\*\* and a \*\*high proportion of power electronic devices\*\*, leading to profound changes in its dynamic characteristics, operational patterns, and stability mechanisms. Concurrently, as a critical link for resource allocation, the design of electricity market mechanisms also needs to be deeply aligned with the evolution of this physical system. To explore new theories, methods, and technologies to solve the core challenges in operation control, coordinated planning, and market mechanism design, this journal is launching a Special Issue on "Operation, Control, and Planning of New Power Systems." This Issue aims to gather cutting-edge research findings and promote academic progress and engineering practice in the field.

---

### Guest Editors

Dr. Peng Wang  
Dr. Tengfei Ma  
Dr. Shaohua Yang

---

### Deadline for manuscript submissions

15 October 2026



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.9  
CiteScore 8.3



[mdpi.com/si/259071](https://mdpi.com/si/259071)

*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 3.9  
CiteScore 8.3



[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)