



*energies*



an Open Access Journal by MDPI

## Operation and Control of Distributed Power Resources Under Market Environment

Guest Editors:

**Prof. Dr. Ciwei Gao**

School of Electrical Engineering,  
Southeast University, Nanjing  
210096, China

**Dr. Xingyu Yan**

School of Electrical Engineering,  
Southeast University, Nanjing  
210096, China

**Dr. Yunting Yao**

School of Electrical Engineering  
and Automation, Nanjing Normal  
University, Nanjing 210098, China

Deadline for manuscript  
submissions:

**7 November 2024**

### Message from the Guest Editors

The research on distributed power resources' operation and control in the electricity market is driven by the increasing integration of renewable energy sources, energy storage systems, and demand-side management technologies into the grid. This Special Issue will deal with novel solutions for distributed power resources' operation and control. Topics of interest for publication include, but are not limited to:

- Distributed resources analysis;
- Distributed trading platform design and development;
- Strategy of pro-sumers in distributed trading;
- Mechanism design for distributed trading;
- Distributed resources optimal control;
- Demand response program design;
- Demand response implementation;
- Demand response strategy;
- Virtual power plant planning, operation and control;
- Distributed resources' aggregation technology;
- Distributed resources' allocation and operation for micro-grid;
- Efficiency and reliability of distributed resources' exploitation;
- Trading strategy of load aggregator in electricity market;
- AI-based technologies for distributed resources' operation and control.



[mdpi.com/si/204573](https://mdpi.com/si/204573)

**Special Issue**



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## 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)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)