

## Special Issue

# Power System Analysis, Operation and Control

### Message from the Guest Editors

To reduce carbon emissions and reliance on fossil fuels, electric power systems around the world are seeing increasing integration of renewable energies and adoption of electric vehicles and construction of needed charging infrastructure. For improved operation and resiliency, more microgrids are emerging, and storage devices are being deployed. Many of the distributed energy resources are inverter based, which has specific short circuit characteristics. The increasing number and unique characteristics of distributed energy resources and controllers, increasing volume of available measurement data and environmental constraints pose challenges for analyzing, operating, controlling and protecting the future power systems. New methods and techniques to overcome these challenges are desirable. This Special Issue calls for papers that deal with emerging techniques and algorithms, as well as practical considerations for reliable and efficient power grid performance. Papers that deal with various aspects of power system analysis, operation, optimization, control and protection considering the new power system paradigm are welcomed. *Please scan the QR code for more information.*

### Guest Editors

Prof. Dr. Yuan Liao

Department of Electrical and Computer Engineering, University of Kentucky, Lexington, KY 40506, USA

Prof. Dr. Ke Xu

Department of Electric Power Engineering, Nanjing Institute of Technology, Nanjing 211167, China

### Deadline for manuscript submissions

closed (16 May 2023)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/122071](https://mdpi.com/si/122071)

*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)