

# Special Issue

## Studies on Power System Dynamics and Stability

### Message from the Guest Editors

This Special Issue invites original research papers and review articles addressing the various topics related to power system dynamics and stability, and experts in both academia and industry are encouraged to present their latest achievements. The main topics of interest for this Special Issue include but are not limited to:

- Advances in power system dynamics and stability
- Assessment of impacts of renewable energy sources on power system stabilities
- Reduced transient stability margin
- Decrease of inertia and frequency stability
- Power electronics controller interaction and resonance
- Power electronics interfaces and their controls
- Effectiveness of mitigation measures
- Improvements in power system stability with HVDC
- Energy storage and synchronous condensers
- Grid forming inverters and their contribution on stabilities
- Dynamic modeling of renewable energy sources and controls.

---

### Guest Editors

Dr. Soobae Kim

Department of Electrical Engineering, School of Electronic and Electrical Engineering, Kyungpook National University, Daegu, Korea

Dr. Jeonghoon Shin

Korea Electric Power Research Institute (KEPRI), Korea Electric Power Corporation (KEPCO), Daejeon, Korea

---

### Deadline for manuscript submissions

closed (2 June 2023)



# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/101033](https://mdpi.com/si/101033)

*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)