



## Advanced Wind & Solar Power Generation and Sector-Coupling Solutions for Renewable Energy Curtailment

Guest Editor:

**Dr. Seung Jin Oh**

Sustainable Technology and  
Wellness R&D Group/Jeju  
Division, Korea Institute of  
Industrial Technology (KITECH),  
Cheonan-si, Korea

Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on state-of-the-art wind and solar power generation technologies and sector-coupling solutions for use in renewable energy curtailment. The scope of this Special Issue will include (but will not be limited to) the following aspects:

- Advanced wind and solar energy technology and O&M;
- Sector-coupling solutions such as power-to-gas (P2G), power-to-heat (P2H), power-to-mobility (P2M), and other energy transformation techniques (P2X);
- Energy storage systems (ESS) and energy management systems (EMS);
- Zero-energy building technology;
- AI-based renewable energy systems;
- Thermal energy storage and thermal management;
- Li-ion batteries and solid-state batteries;
- Advanced renewable energy technology;
- Electric vehicles and sustainable transportation systems.

Dr. Seung Jin Oh  
*Guest Editor*





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

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

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 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)