



## State-of-the-Art Energy-Related Technologies in Australia 2023–2024

Guest Editor:

**Prof. Dr. Akhtar Kalam**

College of Engineering and  
Science, Victoria University,  
Melbourne 8001, Australia

Deadline for manuscript  
submissions:

**15 February 2025**

### Message from the Guest Editor

Dear Colleagues,

We are pleased to present this Special Issue “State-of-the-Art Energy-Related Technologies in Australia 2023–2024”.

This Special Issue will provide a comprehensive overview of state-of-the-art energy-related technologies in Australia. We welcome research articles and reviews that will contribute to providing a consolidated, up-to-date perspective surrounding energy-related areas. Potential topics include but are not limited to the following:

- Distribution, planning, and operation
- Energy management
- Electric vehicles
- Intelligent control of power systems
- Load and frequency control
- Machines, AC and DC drives
- Power electronics
- Power system stability
- Renewable and distributed generation
- Smart grids
- Remote and isolated power systems with high renewable energy penetration
- Life cycle analysis
- Low-emissions technologies
- Green hydrogen
- Biofuels
- Carbon capture and storage
- Net-zero emissions
- Battery and renewable energy system integration



[mdpi.com/si/183786](https://mdpi.com/si/183786)

**Special Issue**

- Hybrid energy storage systems and power

electronics

- AC and DC microgrids for remote areas



*energi*



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)