

## Special Issue

# Integration of Renewable Energy in Australasian Power Systems: Problems and Solutions

### Message from the Guest Editors

The Australasian region is undergoing a paradigm shift in its power generation landscape, with an increasing emphasis on integrating renewable energy sources to mitigate climate change and enhance energy sustainability. This Special Issue explores the challenges and potential solutions associated with the integration of renewable energy into Australasian power systems. The papers submitted to this Special Issue should aim to analyze the diverse array of renewable resources available in the region, including solar, wind, and hydroelectric power, and evaluate their impact on the existing power infrastructure. Topics of interest for this Special Issue include, but are not limited to, the following:

- Technical, economic, and regulatory obstacles faced by Australasian power systems;
- The socio-economic aspects of the transition including the implications for energy affordability, job creation, and community engagement;
- Advanced energy storage technologies;
- Smart grid implementations;
- Innovative policy frameworks;
- Successful case studies and best practices;
- The role of emerging technologies such as artificial intelligence and machine learning.

### Guest Editors

Prof. Dr. Michael Negnevitsky

Prof. Dr. Akhtar Kalam

Dr. Gustavo Fimbres Weihs

Dr. Georgios Konstantinou

### Deadline for manuscript submissions

25 September 2025



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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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