

## Special Issue

# New Challenges in Renewable Energy Integration and Net Zero Energy Future

### Message from the Guest Editor

This Special Issue will examine how we can realistically integrate renewable energy into our systems and societies to support a net zero future. Renewable energy must not only be technically efficient but also affordable, scalable, and widely adoptable. Our global efforts towards decarbonisation will succeed only when innovations make economic sense to households, developers, and industries alike.

Topics of interest include, but are not limited to:

- energy storage,
- electric vehicle energy management,
- hybrid renewable systems,
- vacuum insulation for net zero energy buildings,
- low-cost insulation or building retrofits,
- smart energy management and
- AI-assisted optimisation for grid or household applications.

I particularly encourage work that uses Artificial Intelligence not just as a simulation tool, but as a practical solution embedded within real-life energy systems, helping predict, adapt, and improve performance based on dynamic variables and user behaviour. Research that combines both experimental data and critical insights into adoption barriers will help us transition from theory to reality.

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### Guest Editor

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### Deadline for manuscript submissions

28 November 2025



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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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