

## Special Issue

# Highly Efficient Thermal Energy Storage (TES) Technologies—2nd Edition

### Message from the Guest Editors

In recent years, the quest for sustainable and efficient energy storage solutions has gained significant momentum, and thermal energy storage (TES) technologies have come to play a crucial role in enhancing the efficiency and reliability of energy systems. We cordially invite you to submit original research articles, reviews, and case studies that address a wide range of topics related to highly efficient TES technologies.

- Advanced materials for thermal energy storage;
- Phase-change materials (PCMs) and their applications;
- Sensible, latent, and thermochemical storage systems;
- Novel designs and configurations of TES systems;
- Heat transfer enhancement in TES;
- The integration of TES with renewable energy sources;
- Thermal energy storage for industrial processes;
- The performance optimization and modeling of TES systems;
- Thermal energy storage for building applications;
- Thermal management and control strategies;
- Economic and environmental assessments of TES technologies.

Additionally, we are pleased to present the first edition Special Issue for your review:

[https://www.mdpi.com/journal/energies/special\\_issues/9A7977ZR45](https://www.mdpi.com/journal/energies/special_issues/9A7977ZR45).

We look forward to collaborating with you.

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### Guest Editors

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### Deadline for manuscript submissions

20 August 2026



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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

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