Special Issue

Advances in Energy Storage Systems for Renewable Energy: 2nd Edition

Message from the Guest Editors

This Special Issue will focus on energy storage devices for renewable energy, and we therefore invite papers on innovative technical developments, reviews, case studies, and analytical as well as assessment papers from different disciplines which are relevant to the energy storage technologies. The topics of interest cover a wide range of subjects in energy storage research including batteries, LAES, CAES, pumped hydro storage, hydrogen technologies, supercapacitors, power-to-gas technologies, hybrid energy storage, and others. Keywords

- renewable energy
- energy storage
- liquid air energy storage
- compressed air energy storage
- pump hydro storage
- hybrid energy storage
- thermal energy storage
- modelling
- simulation
- power-to-gas hydrogen
- electrolysis
- battery and ultracapacitor
- environmental impact

Guest Editors

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Deadline for manuscript submissions

closed (25 September 2025)

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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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