



Journal of Energy Resources Technology

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Special Issue on Energy Storage Technologies

The world's energy systems, electricity, thermal (heat), refrigeration (cold), and transportation sectors, are tending to have a higher penetration of renewable energies. This journey of the global energy matrix towards an optimal sustainable energy system is called 'green transition'. Due to the intermittent nature of two of the most important renewable sources (i.e., wind and solar), efficient and cost-effective energy storage solutions from small- to large-scales are valuable assets for a faster and secure green transition process. Energy storage systems come into the main categories of chemical, electrochemical, mechanical, electrical, and thermal technologies, and depending on their class could be used for either thermal or electrical energy storage applications.

This Special Issue aims at attracting cutting-edge research and review articles on 'energy storage technologies and applications' for both thermal and electrical applications.

Topics of Interest include (but are not limited to):

- Novel designs of energy storage systems
- Improvement of existing energy storage designs via passive or active techniques
- Combination of energy storage systems with novel energy production plants
- Hybridization of existing energy production plants with energy storage technologies for higher flexibility and resiliency
- Techno-economic studies on large-scale and cost-efficient energy storage technologies
- New multi-objective optimization methods/algorithms for hybrid renewable power plants combined with energy storage units
- Dynamic modeling of advanced energy storage technologies
- Multi-functional energy storage systems for creating synergies between different energy sectors

Topic Areas

- Chemical energy storage
- Electrochemical energy storage
- Mechanical energy storage
- Electrical energy storage
- Thermal energy storage

Publication Target Dates

Paper submission deadline	February 28, 2021
Initial review completed	March 31, 2021
Special Issue publication date	May 31, 2021

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the [ASME Journal of Energy Resources Technology](#) and then select the Special Issue **Energy Storage Technologies**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

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