

Special Issue

Life Cycle Assessment of Batteries for Energy Applications

Message from the Guest Editors

The Special Issue aims to advance the state of the art in LCSA of batteries used in stationary energy storage systems. Contributions are welcome to offer thorough, transparent, and detailed evaluations of the entire battery life cycle. Perspectives on end-of-life management, including potential second-life applications, are also encouraged. The use of original primary data, detailed inventories, and real-world operating conditions is also strongly encouraged. Studies exploring system-level implications and the role of the Digital Battery Passport in improving data availability, traceability, and transparency across the battery value chain are also expected. The scope of the Special Issue encompasses lithium-based batteries and beyond, including emerging and alternative chemistries, assessed through environmental life cycle assessment (LCA), prospective LCA, social LCA (sLCA), and LCSA. Submissions should move beyond climate change indicators to address broader environmental impacts, resource use, and potential social implications.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2026)



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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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