

Special Issue

Energy Conversion and Storage Technologies for Industrial Decarbonization

Message from the Guest Editors

This Special Issue invites cutting-edge research and review articles that explore the integration of advanced energy conversion and storage devices aimed at pursuing the decarbonization of industrial processes. A particular emphasis is placed on heat pump systems designed to supply process heat and/or cold, especially in the temperature range required by many industrial sectors. Key topics include, but are not limited to, the following:

- Optimal design and operation of high-temperature heat pumps for industrial applications;
- Techno-economic assessments of integrated heat pumps, storage units, and/or industrial waste heat recovery systems for industrial processes;
- Related experimental demonstrations and pilot projects;
- Control strategies and system integration of conversion and storage units for industrial processes;
- Case studies showing pathways to deep decarbonization in energy-intensive industries.

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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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