Special Issue

Advances in Waste Heat Utilization Systems

Message from the Guest Editors

The objective of this Special Issue is to present the latest research and developments in technologies that utilize waste heat from industrial processes, power generation, and other sources.

Topics of interest include, but are not limited to:

- Novel cycle architectures for waste heat recovery.
- Advanced modelling and simulation techniques for system design and optimization.
- Advancements in ORC and HTHP technologies for industrial processes.
- Component design and optimization.
- Innovative working fluids with improved environmental and safety profiles.
- Integration of thermal energy storage in waste heat recovery systems.
- Techno-economic assessment of emerging waste-to-energy technologies.
- Artificial intelligence and machine learning applications in system control and optimization.
- Machine learning algorithms for design, analysis, and performance prediction of waste heat recovery systems.
- Environmental impact and sustainability.
- Advanced control strategies.
- Case studies and industrial applications of waste heat recovery.

Guest Editors

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Deadline for manuscript submissions

30 November 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/213957

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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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