

Special Issue

Energy Efficiency in Industrial Processes

Message from the Guest Editor

This Special Issue explores a lifecycle-based approach to industrial energy efficiency, recognising that meaningful reductions in energy use and emissions can only be achieved when efficiency is addressed from the earliest planning decisions to end-of-life decommissioning strategies. It highlights how emerging technologies, integrated management strategies, and cross-disciplinary innovations can be leveraged to improve energy performance throughout the entire lifecycle of industrial facilities. The contributions are organised around a set of key topics that reflect the complexities, opportunities, and research frontiers in this domain.

- Lifecycle-oriented design and planning for industrial energy efficiency;
- Digitalisation of industrial construction and commissioning;
- Real-time monitoring and operational optimisation;
- Predictive maintenance and asset efficiency;
- Data-driven retrofitting and process reengineering;
- Integration of industrial processes into renewable and circular energy systems;
- Platforms for collaborative energy management across the supply chain;
- Regulatory, economic, and organisational enablers of lifecycle energy efficiency.

Guest Editor

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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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