Special Issue

Novel Approaches in Waste Heat Recovery for District Heating Integration

Message from the Guest Editor

This Special Issue will explore advanced technologies and methodologies for capturing and repurposing waste heat from various sources, such as industrial processes, data centers, and commercial buildings. Key topics include the development of low-temperature district heating systems, the role of heat pumps in enhancing waste heat quality, and the economic and environmental advantages of these approaches. We aim to present a comprehensive collection of research articles, reviews, and case studies that provide significant insights into the practical implementation and future potential of waste heat recovery in district heating. Contributions should emphasize optimizing system integration, enhancing thermal storage capabilities, and leveraging local renewable energy sources to maximize the benefits of waste heat recovery. Additionally, this issue will address the challenges and opportunities related to policy frameworks, financial incentives, and regulatory measures that support the adoption of waste heat recovery technologies. It will also examine the role of digitalization and smart grid technologies in improving the efficiency and reliability of district heating systems.

Guest Editor

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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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