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Recent Advances in District Heating

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Message from the Guest Editors

Dear Colleagues,

District heating can significantly contribute to achieving carbon-neutral energy supply systems. The key challenges for existing district heating systems include reducing heat losses, replacing fossil-based heat sources with renewable or waste heat to reduce CO2 emissions, as well as introducing new solutions and technologies for e.g storage and operation. There are technical, economic, and infrastructural barriers related to these challenges that can be overcome with the help of researchers.

This special issue aims to draw attention to research and review articles on existing district heating systems. The focus will be on transforming existing district heating networks into sustainable, energy-efficient, carbon-neutral energy systems that interact with the power grid and other energy carriers to provide more flexibility in renewable power production.

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Message from the Editor-in-Chief

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