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## Sustainable Energy Technologies and Assessments

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### Call for Paper on Special Issue --Efforts for Sustainable Development of District Heating and Cooling Systems

🕒 October 2020

#### Background

District heating and cooling systems (DH/DC) are the crucial elements of energy systems in many countries today and will be of a global importance for sustainable development of energy systems and higher utilization of renewable and waste energy sources. This has attracted much attention of researchers in various points of the world to contribute to push the state-of-the-art of this field, and thereby, contribute to the globally aimed GREEN-TRANSITION.

The research efforts in this framework cover a wide range of themes including novel designs for the foundation and design of DH/DC systems, proposals for increasing the cost or technical effectiveness of the existing systems, techno-economic analyses of case studies hosting DH and DC systems via waste heat recoveries or renewable integration, using artificial intelligence or demand-side management for optimal operation of these systems, various concepts based on centralized or decentralized supply or storage, so on and so forth.

This special issue aims at making a collection of research and review articles on DH/DC systems. The topics of Interest include, but are and not limited to, the following:

- Novel concepts and designs in DH/DC systems
- Innovative solutions for the improvement of the existing DH/DC designs
- Integration of renewable or waste heat/cold sources for DH/DC supply
- Passive and active performance enhancement techniques on DH/DC system components
- The use of centralized or decentralized energy storage systems in DH/DC systems
- Optimization methods for optimal operation or planning in DH/DC systems
- Dynamic modeling and cost analysis of DH/DC systems
- The use/discussion/comparison of centralised versus decentralised solutions in DH/DC systems
- Technical and economic investigations of case studies for the implementation of DH/DC systems

#### Submission Guidelines

Before submitting your manuscript, please ensure you have carefully read the submission guidelines for the journal of Sustainable Energy Technologies and Assessments ([Submission Guidelines](#)). The complete manuscript should be submitted through the journal's website [here](#). To ensure that you submit to the correct special issue please select the appropriate special issue in the drop-down menu upon submission. In addition, indicate within your cover letter that you wish your manuscript to be considered as part of the special issue on Efforts for Sustainable Development of District Heating and Cooling Systems.

**Manuscript submission deadline: 1 October 2021 online**

#### Guest Editors:

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