

Special Issue

Smart Heating and Cooling Networks

Message from the Guest Editors

For many years, heat has been the elephant in the room: it accounts for almost half of total energy consumption, but research and innovation mainly focused on electricity or transportation. Recently, things have changed: strong efforts have been made to innovate this sector, with a particular reference to district heating networks. This Special Issue intends to collect the latest outcomes of research and innovation activities, but mainly to be a showcase for successfully demonstrated solutions for designing, managing, and maintaining a heating and cooling network. Strong focus is given, but not limited to, smart controllers for flexibility and high renewable energy shares, network design tools for waste heat recovery, tools for modeling, demand forecasting, diagnosis, predictive maintenance, or retrofitting. This Special Issue aims to be a source for future developments, but also a knowledge base for the dissemination of best practices and the promotion of their replication.

Guest Editors

Prof. Dr. Mirko Morini

Department of Engineering and Architecture, University of Parma, I-43124 Parma, Italy

Dr. Costanza Saletti

Department of Engineering and Architecture, University of Parma, I-43124 Parma, Italy

Deadline for manuscript submissions

closed (27 March 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/92596

Energies

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)