

Special Issue

Heating and Cooling: Mapping and Planning of Energy Systems

Message from the Guest Editors

Heating and cooling (H&C) in buildings and industry accounts for half of EU's energy consumption. While the EU heating market is already well researched since decades, there is a lack of information concerning cooling. Almost no data is available for the air-conditioning (AC) part. A proper investigation to determine this type of information has not been carried out yet. In contrast to space heating, space cooling consumption is growing and growing at EU level. The availability of spatialized data on buildings and industry as well as on its energy need (in particular on H&C) at multiple level, is crucial for sustainable strategic heating and cooling planning. In this sense, one of the most important challenges today concerns district heating/cooling (DHC) plants. This Special Issue will gather original research in the field of mapping and planning of energy systems (in particular on H&C). Suitable topics include, but are not limited to, the following: space heating, space cooling, domestic hot water (DHW), process heat, process cooling, small power appliances, electricity network, demand response, mapping, remote sensing, big data and planning.

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