

Special Issue

Models and Tools for Buildings' Energy-Use Mapping and Planning at Urban Scale

Message from the Guest Editor

This Special Issue aims to collect research on models and tools for the assessment and mapping of energy consumption of buildings in cities and territories. The main models used are top-down, bottom-up or hybrid models; the latter exploit energy balances on systems of different scales and are also called engineering. Through the use of these models and tools, it will be possible to identify the real characteristics of the buildings stock and users, the constraints on the built environment, the availability of renewable energy sources, and the energy-saving potentials. Therefore, the real energy and environmental targets of each city and territory will be found, and this result will be used to update the local building codes and incentives, promoting the most appropriate solutions for each territory. In addition, with the right energy models and tools, citizens will also be able to evaluate how to reduce their consumptions through retrofit measures, technologies that exploit renewable resources, and economic incentives in force.

Guest Editor

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