Special Issue

Low Carbon Energy Technology for Heating and Cooling of Buildings

Message from the Guest Editors

In order to achieve the goal of limiting global warming to 1.5 °C, low-carbon energies, especially solar energy and geothermal energy, along with other kinds of renewable energies, are becoming increasingly important as energy resources for buildings. Such low-carbon energies for cooling and heating buildings can greatly contribute to mitigating climate change and achieving carbon neutrality. There exist huge differences in energy attributes, meteorological conditions, building properties, and operating characteristics, so low-carbon energy systems integrated with buildings should adjust to meet local conditions. The latest findings can be applied to a wide range of low-carbon energy systems beyond the cases of countries of study. This Special Issue aims to present and disseminate the most recent advances related to the theory, modelling, process, design, simulation, application, and economic assessment of all types of low-carbon energy technologies for the heating and cooling of buildings.

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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.

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