

Special Issue

Energy Efficiency and Comfort for Net-Zero-Energy Buildings

Message from the Guest Editor

Worldwide, efforts are being made to reduce the negative effects of the intensive use of fossil fuels—increased greenhouse gas emissions and climate change—and the built environment is responsible for around one third of these effects. To reduce fossil fuel consumption in built environments, three steps that provide sustainable energy in this sector are indispensable. First of all, energy saving measures must be implemented to cut all unnecessary energy consumption; second, energy efficiency solutions must be applied to make maximum use of primary energy. Only after applying these two steps, can renewable energy systems be implemented to provide clean energy in the built environment. All these steps must be applied without affecting the comfort of the building users. Thus, the goal of net-zero energy buildings can feasibly be achieved. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modelling, and application of energy saving measures, energy efficient solutions and renewable energy systems implemented in the built environment, aiming to attain the goal of net-zero energy buildings.

Guest Editor

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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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