

Special Issue

The Sustainable Pathway towards Zero-Energy/Emission Buildings: Exploring High-Efficiency Solutions and Integrated Approaches

Message from the Guest Editors

In order to face the challenging energy targets of the 21st century, this Issue will promote the achievement of zero-emission buildings by 2028 for new buildings and 2050 for the existing ones. In order to meet this objective, scientists and designers are encouraged to adopt an effective and integrated approach to decrease end-use energy consumption and pollutant emissions in both designing new buildings and retrofitting existing ones. The highly efficient building envelope and the high-performance and optimal management of the heating, ventilation and air conditioning (HVAC) systems are mandatory in order to achieve satisfactory results in terms of energy consumption reductions.

This Special issue proposes to deal with the challenging topic of reaching zero-energy and zero-emission buildings and adopting high-efficiency building envelopes and HVAC plants integrated with RES.

We welcome manuscripts on the following topics, but not limited to these topics:

- Zero-energy and Zero-emission buildings;
- Energy efficiency in the built environment;
- Sustainable buildings;
- Optimal design for new buildings.

Guest Editors

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Deadline for manuscript submissions



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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