



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

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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