



Zero to Plus Energy Buildings: Innovation in Technologies and Methodologies for New Buildings and Deep Renovation

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Message from the Guest Editors

Energy efficiency in buildings is recognized as a key factor for improving the existing building stock and contributes to paving the way for a decarbonized and clean energy system. Only 1–2% of buildings undergo energy-efficient renovation every year, so effective and multiple actions are needed to make the European climate neutral by 2050. Currently, at least 75% of the building stock is energy-inefficient, yet almost 85–95% of today's buildings will still be in use in 2050.

The aim of this Special Issue is to collect and present innovative results, methodologies, and advancements in designing new and renovated buildings toward a PEB target characterized by superior thermal comfort for occupants. In this context, this Special Issue aims at collecting contributions that:

- Investigate the current practices for designing PEBs;
- Investigate the most cost-effective technologies to achieve the PEB standard;
- Collect and analyze methodologies and approaches for new and renovated buildings.





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