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Interactions of the Variation in Environmental Conditions Due to Climate Change and the Possibility of Obtaining a Low-Carbon Building Stock

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Message from the Guest Editors

Dear Colleagues,

Climate change will generate unfavourable living conditions. To reduce this impact, the achievement of a low carbon economy in different sectors is required. In the case of buildings, there should be a transition from existing buildings to almost zero energy consumption buildings. However, obtaining nearly zero energy buildings can vary depending on the climatic conditions of the building. In this regard, a relationship between energy consumption, the evolution of the climate and the users' thermal comfort will establish appropriate strategies for a low-carbon building stock.

The objective of this Special Issue is to analyse the importance of climate in the adoption of nearly zero energy buildings. The climatic analyses based on the adaptive capacity of users and the design requirements of buildings will adapt better the building stock. Likewise, the analyses carried out with climate change scenarios will reveal the expected evolution throughout the 21st century.

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