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Combined Energy and Seismic Renovation of the Building Stock: Technologies, Constraints, and Performances

Guest Editors:

Message from the Guest Editors

Dr. Francesca Barbagallo

Dr. Vincenzo Costanzo

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- Dr. Carola Tardo

Deadline for manuscript submissions: closed (1 December 2023) In recent years, great efforts have been made to encourage deep energy renovation of buildings to meet the decarbonization goal. However, buildings in earthquakeprone areas have to sustain seismic forces and comply with the updates of local seismic zonation and seismic codes. Therefore, renovation solution that aims to address only energy efficiency will be unsustainable. In such cases, energy renovation actions should be strategically combined with seismic retrofitting to ensure the higher attractiveness and applicability of combined renovation actions.

This Special Issue aims to advance the knowledge about major renovations addressing both the energy and seismic upgrade of buildings, with a particular focus on:

- Barriers that limit the extensive undertaking of combined retrofitting interventions, and solutions to overcome them;
- The analysis of the current retrofit solutions, and of their architectural and technological constraints;
- Novel retrofit schemes that integrate seismic, energy and architectural retrofitting;
- The expected performances (either monitored or modelled) in terms of energy savings and improved seismic resistance;
- Exemplary case studies.





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Message from the Editor-in-Chief

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