



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

Guest Editors:

Dr. Francesca Barbagallo

Dr. Vincenzo Costanzo

Prof. Dr. Giuseppe Margani

Dr. Carola Tardo

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Message from the Guest Editors

In recent years, great efforts have been made to encourage deep energy renovation of buildings to meet the decarbonization goal. However, buildings in earthquake-prone 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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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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