

Special Issue

Deep and Fast Retrofitting of Existing Buildings to Improve Energy Performance and Comfort Conditions

Message from the Guest Editors

Energy efficiency is crucial: buildings will have to consume only the energy they really need. Retrofit interventions will have to be affordable and economically convenient. Electrical heating and cooling system feed by renewables will have to be widely promoted. Materials and technologies adopted to carry out renovations will have to contribute to minimize buildings footprint. Renovation strategies will have to be targeted to improve comfort conditions and internal air quality of indoor spaces. Green buildings transition will have to be coupled with the digital one, both in terms of design and management processes (building information modelling) and performance monitoring and controlling (smart buildings and energy distribution systems). Finally, renovations will have to respect design, craftsmanship, heritage and public space conservation principles.

This Special Issue aims to collect and illustrate practices and models of retrofit interventions of high architectural quality, able to achieve NZEB target and to improve comfort conditions within existing buildings.

Guest Editors

Prof. Roberto Ricci

Dr. Giuseppe Desogus

Dr. Arianna Murru

Dr. Emanuela Quaquero

Dr. Luigi Antonio Besalduch

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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

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