



Advances in Carbon Neutrality and Renewable Energy Integration in Architecture

Guest Editors:

Dr. Abel Tablada

Faculty of Architecture,
Technological University of
Havana José Antonio Echeverría,
Marianao, La Habana 19390,
Cuba

Dr. Vesna Kosorić

1. Balkan Energy AG, 4656
Starrkirch-Wil, Switzerland
2. Zurich Soft Robotics GmbH,
8005 Zurich, Switzerland

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Message from the Guest Editors

This Special Issue aims to present the most recent advances in and current discussions on carbon neutrality in architecture as well as the integration of renewable energy technologies in buildings. Considering the high contribution of building industry to global emissions, architects, engineers, developers and all related stakeholders must adopt innovative design and implementation methods that combine building affordability with high performance and replicability. Therefore, the main purpose of this Special Issue is to provide references and tools to help disseminate carbon-neutral strategies and applications in the built environment. The topics include passive design strategies to maximize occupants' comfort in buildings with the lowest energy demand; the innovative use of low-carbon-embodied materials; methods to guide and assess carbon neutrality in building design and management; novel technologies for the integration of photovoltaic cells and other renewable energy sources into buildings; profitability and social acceptance studies of carbon-neutral buildings; the influence of green rating systems on promoting zero-energy and carbon-neutral buildings, among others.





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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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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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