

Special Issue

Net-Zero-Energy Building Solutions for Sustainability

Message from the Guest Editors

A net-zero energy building (NZEB) is an architectural structure that is designed and built to produce as much energy as it consumes during a year. The achievement of NZEBs requires not only efficiency measures to save energy but also renewable energy and other technologies to meet energy demands. In recent years, NZEBs have become increasingly popular in the built environment. They have the potential to reduce carbon emissions, mitigate climate change, optimize building energy efficiency, and incorporate renewable energy resources. This Special Issue aims to establish a platform for innovative strategies and promising solutions that improve the performance of NZEBs throughout their lifecycles, contributing to a more sustainable built environment. These topics range from the design, construction, operation, and maintenance of NZEBs. They cover a range of aspects related to sustainable NZEBs, such as principles, approaches, technologies, policies, etc. Based on these topics, it is possible for researchers and practitioners to have a comprehensive and thorough understanding of how to achieve net-zero energy goals in today's built environment.

Guest Editors

Dr. Xianhai Meng

School of Natural and Built Environment, Queen's University Belfast, Belfast, UK

Dr. Sha Liu

Department of Construction Management, Dalian University of Technology, Dalian 116024, China

Deadline for manuscript submissions

closed (31 December 2024)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/188134

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)