

## Special Issue

# Decarbonization in the Building Sector: Prospects, Challenges and Policy Frameworks

### Message from the Guest Editors

The building sector is a major contributor to global carbon emissions, consuming 40% of extracted natural resources and 36% of energy produced, while releasing over 33% of the total greenhouse gases emitted. With the rapid growth in urbanized areas, in the future, the role of buildings in the global energy and environmental scenarios is set to become even more critical.

Accordingly, buildings have a leading role to play in global efforts for sustainable development and energy transition. As countries around the world strive to achieve net-zero targets, decarbonizing the built environment is critical to sustainable development and climate change mitigation. This Special Issue seeks to explore the prospects, challenges, and pathways, both from technological and policy perspectives, for advancing decarbonization in the building sector. It welcomes submissions addressing innovative technologies, energy efficiency strategies, sustainable materials, and low-carbon design principles.

---

### Guest Editors

Dr. Muhammad Asif

Architectural Engineering and Construction Management, King Fahd University of Petroleum and Minerals, Dhahran, KSA, Saudi Arabia

Dr. Emrah Atar

Department of Political Science and Public Administration, Recep Tayyip Erdogan University, Rize, Türkiye

---

### Deadline for manuscript submissions

1 July 2026



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/221843](https://mdpi.com/si/221843)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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)