

Special Issue

Energy Performance Prediction and Validation in Green Buildings

Message from the Guest Editors

The role of the building sector in combating climate change issues has increasingly gained the attention of the scientific community towards constructing green buildings as an effective measure to reduce building impacts, with significant benefits to society and the economy.

Overall, the term “green building” lacks a clear and unequivocal definition, moving from narrower definitions to broader definitions. In the existing literature, the dominant approach to analyse green buildings involves comparing with a traditional building, highlighting the benefits from an environmental perspective, an economic perspective, and a human perspective. Undoubtedly, building energy efficiency is one of the crucial issues addressed in green building research, although closely related to the other aspects. However, technological advancements provide manifold technologies that can be implemented in green buildings, whose study is becoming increasingly complex, requiring the implementation of proper procedures to study their effectiveness and thus adequately predict their performance.

Guest Editors

Prof. Dr. Francesco Fiorito
Dr. Francesco Carlucci
Dr. Ludovica Campagna

Deadline for manuscript submissions

closed (24 April 2026)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/205838

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

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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



About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)