Special Issue

Latest Advances and Prospects in Net Zero Energy Buildings and Positive Energy Districts

Message from the Guest Editors

This issue seeks contributions that provide insights into the latest technological advancements, design methodologies, implementation strategies, pathways, and policy frameworks driving NZEBs and PEDs. Topics of interest include case studies demonstrating successful implementation, new approaches to energy efficiency and renewable integration, tools for performance monitoring and evaluation, and strategies to address the social, economic, and environmental challenges associated with these concepts.

The submission is open (but not restricted) to the following areas:

- Positive Energy District (PED) case studies and best practices.
- Modeling and simulation of Net-Zero Energy Buildings (NZEBs) and PEDs.
- Integrated approaches to energy efficiency, renewables, and storage systems.
- Planning and decision-support tools for PEDs and NZEBs, including GIS-based methods.
- Monitoring, evaluation, and sustainability assessment frameworks.
- Economic, environmental, and social impacts of PEDs and NZEBs.
- Roadmaps, policy frameworks, and regulatory developments for energy-positive and net-zero communities.
- New materials and technologies driving advancements in NZEB and PED design.

Guest Editors

Dr. Francesco Guarino
Department of Engineering, University of Palermo, Viale delle Scienze Building 9, Palermo, Italy

Dr. Paolo Civiero
Department of Architecture, Roma Tre University, 00154 Rome, Italy

Deadline for manuscript submissions

15 April 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/222130

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI