Special Issue

Sustainable Buildings Life Cycle Through Digitalization

Message from the Guest Editors

In line with the European Green Deal, which aims to bring a more efficient, innovative, and human-centered perspective to the European construction sector, the sustainable built environment surpasses the sole aim of improving the energy and resource efficiency of buildings. On the one hand, it includes comfort and a human dimension to ensure the application of the life-cycle assessment and a circular approach, but on the other hand, digital technologies such as BIM and/or Digital Twins offer different opportunities for a more efficient life-cycle design of buildings and thus constitute a tool for the sustainability of the building sector. Topics targeting sustainable building life cycles through digitalization seek to achieve the following targets:

- Building stocks that are more energy-efficient and are supported by an accurate understanding of materials, building performance, and related evolutions and emissions.
- Building design, construction, operation, and refurbishment procedures that effectively combine energy efficiency, renewable energy sources, as well as digital and smart technologies to support the transformation of the built environment towards climate neutrality.

Guest Editors

Dr. Marta Maria Sesana

Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, 25123 Brescia, Italy

Dr. Helena Gervásio

Institute for Sustainability and Innovation in Structural Engineering, Universidade de Coimbra, 3030-788 Coimbra, Portugal

Deadline for manuscript submissions

closed (25 July 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/198739

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