



an Open Access Journal by MDPI

Smart Energy Buildings of the Future

Guest Editors:

Dr. Maria da Glória Gomes

Department of Civil Engineering, Architecture and Georesources, Instituto Superior Técnico, University of Lisbon, 1049-001 Lisbon, Portugal

Dr. Carlos Silva

Department of Mechanical Engineering, Instituto Superior Técnico, University of Lisbon, 1049-001 Lisbon, Portugal

Deadline for manuscript submissions: closed (30 November 2021)

Message from the Guest Editors

Dear Colleagues,

The building sector can provide an important contribution to mitigate climate change by reducing the energy demand and increasing the use of non-renewable energy sources. Therefore, innovative and high performing solutions to new and retrofitted building envelope and systems are needed to support the transformation towards net-zero energy and carbon buildings, whilst enhancing the indoor comfort conditions. This challenge has led to the search, not only for smart building materials and solutions to be integrated in the building envelope, but also for smart integration and management of building services and energy systems, with higher operability and performance than static solutions.

A deeper insight and understanding of smart solutions and applications in buildings is decisive for the definition of strategies, in a rational and technically informed way, to meet the energy and climate-neutral targets for the buildings of the future.

This Special Issue intends to provide an overview of the existing knowledge related with various aspects of Smart Energy Buildings of the Future.









an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci