



an Open Access Journal by MDPI

Buildings Integration of Renewable and Smart Energy Systems

Guest Editors:

Prof. Dr. Marco Dell'Isola

Department of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, Cassino, FR, Italy

Prof. Dr. Andrea Frattolillo

Department of Civil, Environmental Engineering and Architecture, Universityof Cagliari, Cagliari, Italy

Deadline for manuscript submissions: closed (30 November 2020)



Message from the Guest Editors

Dear Colleagues,

In recent years, several new components and systems for renewable energy and smart buildings have been developed for different purposes: (i) long-term climate and sustainability goals; (ii) space optimization; (iii) distributed local energy production; (iv) energy independence, and (v) energy efficiency improvement. Today, the attention of designers and service providers is not only focused on energy efficiency technologies, but increasingly on their usability in terms of integration with the building. In particular, meaningful efforts are made toward the integration of renewable energy sources (RES) with different technical elements of the building envelope such as roofs, facades, and frames, at least from a functional point of view. Then, the integration aspects must be carefully taken into account for the different parts of the building system, and a comparative study of thermodynamic advantages/disadvantages coming from different building integration solutions has been carried out.

Prof. Dr. Marco Dell'Isola Prof. Andrea Frattolillo *Guest Editors*







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

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

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.

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)

Contact Us

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