Special Issue

Buildings Integration of Renewable and Smart Energy Systems

Message from the Guest Editors

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, façades, 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.

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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.

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