Special Issue

Ultra-Low Energy Consumption and Zero-Energy Buildings in Response to Climate Change

Message from the Guest Editors

Climate change represents a significant challenge currently faced by the global community. Reducing the consumption of conventional energy sources and enhancing the utilization of renewable energy are crucial pathways to decrease carbon emissions, achieve carbon neutrality, and address climate change. The building's energy consumption accounts for one-third of the total societal energy consumption. Therefore, the development of ultra-low energy or zero-energy buildings is an important measure to reduce carbon emissions and energy consumption, and it is a frontier and focal point in contemporary academia. Throughout the entire lifecycle of a building, achieving ultra-low or zero-energy architecture necessitates in-depth research at each stage, including "design, produce, construction, use, demolition, and reuse". This Special Issue aims to present the latest trends in ultra-low and zero-energy buildings in the context of climate change.

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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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