Special Issue

Thermal Assessment of Building Energy Systems: A Review approach

Message from the Guest Editors

The thermal assessment of building energy systems is an important process that helps to optimize energy efficiency and reduce energy consumption in buildings. The review of building energy systems involves evaluating the performance of the HVAC systems and the building envelope to identify areas where energy waste occurs and to optimize energy usage. The following are some of the key aspects of the thermal assessment of building energy systems: HVAC System Efficiency: The efficiency of the HVAC system can be evaluated by analyzing the energy consumption data and comparing them to the system's rated efficiency. Thermal Comfort: The HVAC system must maintain a comfortable indoor temperature for the occupants. Evaluating the system's ability to maintain the desired temperature range can help identify any issues that need to be addressed to improve thermal comfort. Air Quality: The HVAC system should also provide adequate ventilation to maintain good indoor air quality. The thermal assessment helps to ensure that buildings are energy-efficient, comfortable, and sustainable.

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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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