

Special Issue

Integrated Approaches to Energy Efficiency in Modern Buildings

Message from the Guest Editors

Buildings account for a major share of total energy consumption in Europe, making the building sector a key contributor to ongoing decarbonisation efforts.

Reducing this demand requires integrated strategies that combine energy-efficient design and retrofitting with renewable-based HVAC systems, advanced energy management solutions and performance-driven operational approaches. Contemporary building energy strategies increasingly rely on advanced monitoring, simulation and control technologies capable of providing real-time insight into energy use, system efficiency, and operational behaviour. Intelligent, cost-effective solutions supported by IoT technologies, smart controls and data analytics enable more accurate assessment, optimisation and adaptive management of building energy performance throughout the building lifecycle.

This Special Issue invites original research articles, review papers and case studies focusing on energy efficiency, energy performance assessment, building energy systems, renewable integration, advanced simulation, monitoring and optimisation strategies for modern and sustainable buildings.

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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.

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