



Energies

an Open Access Journal by MDPI

CiteScore: 7.3

Impact Factor: 3.2

Special Issue Reprint

Energy Efficiency and Energy Saving in Buildings

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This Reprint collates the peer-reviewed articles published in the Special Issue entitled “Energy Efficiency and Energy Saving in Buildings”, presenting a curated selection of studies focused on improving the performance, sustainability, and comfort of the built environment. The contents collectively address practical and scientifically grounded approaches to reducing energy demand in buildings while maintaining high indoor environmental quality.

The Reprint includes research on passive cooling and heating strategies, innovative interior conditioning technologies, intelligent energy management solutions, and the integration of renewable energy systems in buildings. It also covers lifecycle assessment methods, active thermal storage applications, and evaluations of energy-saving measures across different climatic contexts, alongside analyses of their implications for indoor comfort and outdoor environmental conditions. These contributions combine modeling, experimental research, and real-world case studies that demonstrate scalable and context-sensitive solutions for both new and existing buildings. This Reprint provides a coherent overview of recent advances in building energy efficiency, highlighting interdisciplinary methodologies and applicable design strategies that support sustainable urban development and the transition toward low-energy and climate-responsive buildings.



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