

Special Issue

Sustainable Advances In and Development of Energy Systems in Buildings

Message from the Guest Editors

The building sector accounts for a significant proportion of global energy consumption and greenhouse gas emissions. Rapid urbanization, increasing energy demand, and carbon-reduction strategies underscore the need to adopt transformative approaches across the design, construction, and operation phases of buildings. This Special Issue will explore innovative technologies, materials, and analytical approaches for improving building energy performance and reducing environmental impacts throughout the building life cycle. Interdisciplinary contributions are required to address the development and optimization of energy systems in buildings. Experimental investigations, case studies, and simulation-based analyses that demonstrate practical, scalable solutions for the sustainable built environment are also welcome. Research addressing climate-responsive design, net-zero energy buildings, and carbon-neutral construction practices will be highly relevant. Our ultimate goal is to contribute to the global transition toward energy-efficient, low-carbon, and resilient built environments.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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