

Special Issue

Towards Climate-Neutral and Resilient Building and Urban Energy Systems

Message from the Guest Editor

This Special Issue invites original research and review papers that explore strategies, technologies, policies, and tools aimed at decarbonizing buildings and urban energy systems while enhancing their flexibility, efficiency, and resilience. It seeks to integrate perspectives from energy-efficient building design, digitalization and smart systems, renewable energy integration, circular material flows, and adaptive urban planning. Contributions addressing the synergies between mitigation and adaptation—such as climate-resilient infrastructures or flexibility measures supporting both energy system decarbonization and robustness to extreme events—are particularly welcome.

The scope includes but is not limited to the following topics: low-carbon and passive building design, district energy systems, smart grids, building digital twins, demand-side flexibility, nature-based solutions, and urban retrofitting for climate neutrality. Cross-disciplinary work that combines technical, policy, economic, and social dimensions is strongly encouraged.

Guest Editor

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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

Prof. Dr. Steve W. Lyon

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