

Special Issue

Towards Zero-Carbon Built Environments: Sustainable Energy Integration at Building and District Scales

Message from the Guest Editor

Achieving zero-carbon built environments requires coordinated action across scales, from individual buildings to entire districts. This Special Issue focuses on advancing sustainable energy integration in the built environment through innovative design, technology and policy approaches. It welcomes research that explores low-carbon solutions, energy-efficient building renovations, renewable integration, smart energy management, district energy systems and strategies to foster sustainable urban transitions. The issue encourages both scientific and applied contributions addressing technological innovations, governance models and socio-economic dimensions of the decarbonisation process. Studies combining digitalisation, monitoring and data-driven optimisation for energy systems are also highly relevant. Comparative analyses and cross-disciplinary frameworks that connect engineering, policy and human-centred perspectives are particularly encouraged. Through its broad focus, this Special Issue aims to provide a platform for sharing advances that support the transition toward climate-neutral, resilient and sustainable built environments.

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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