Special Issue

Sustainable Energy in Buildings and Built Environments

Message from the Guest Editors

This Special Issue welcomes contributions addressing sustainable energy from a range of perspectives, including building energy simulation, digital innovation, urban microclimates, circularity, and occupant-centric approaches. Of particular interest are studies that adopt integrated approaches combining technological, behavioral, and policy innovations to promote energy efficiency across the lifecycle of buildings, from design and construction to operation and retrofit. By bridging knowledge from civil engineering, architecture, environmental design, and computer science, this Special Issue will showcase scalable solutions that support the transition to net-zero energy buildings and resilient cities. We encourage researchers, practitioners, and policy-makers to contribute their findings, methodologies, and case studies that can inform future energy strategies in the built environment. This Issue aims to provide a platform for cutting-edge discussions that inform both policy and practice toward a smart, sustainable, and occupant-aware built environment.

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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