

Special Issue

Sustainable Design and Smart Control of Building Energy to Accelerate Net-Zero Operations

Message from the Guest Editors

With carbon neutrality emerging as a global priority, significant decarbonization in the building sector has become more urgent than ever. However, achieving substantial emissions reductions while maintaining high service quality in built environments remains a complex challenge. This Special Issue invites contributions that explore innovative solutions for building decarbonization and the transition to net-zero operations.

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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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