

Special Issue

Energy Efficiency and Circular Economy in Sustainable Net-Zero Retrofitting of Buildings

Message from the Guest Editors

Retrofitting buildings to net-zero is urgent as existing structures drive carbon emissions. Technical and financial hurdles dominate. Designing optimal retrofits is complex, while securing funding remains a barrier.

This Special Issue, "Energy Efficiency and Circular Economy in Sustainable Net-Zero Retrofitting," explores automation in retrofit design and circular economy/currency models to empower communities. Modelling aids retrofit planning; AI could refine it further. Circular principles optimize building component lifecycles, while complementary currencies tap resources like solar energy.

Interdisciplinary by design, it seeks contributions from engineering, architecture, and tech. The focus is on addressing retrofitting's urgency and complexity for net-zero goals. Given the climate crisis scale, scaling retrofits is non-negotiable.

The Issue covers automation tools and circular/currency strategies to enable global retrofit expansion. It aims to advance understanding of accelerating projects. While case studies exist, this seeks breakthroughs to elevate retrofitting, pursuing scalable, innovative solutions for sustainable infrastructure.

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Editor-in-Chief

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