

Special Issue

Decarbonization in the Building Sector: Prospects, Challenges and Policy Frameworks

Message from the Guest Editors

The building sector is a major contributor to global carbon emissions, consuming 40% of extracted natural resources and 36% of energy produced, while releasing over 33% of the total greenhouse gases emitted. With the rapid growth in urbanized areas, in the future, the role of buildings in the global energy and environmental scenarios is set to become even more critical. Accordingly, buildings have a leading role to play in global efforts for sustainable development and energy transition. As countries around the world strive to achieve net-zero targets, decarbonizing the built environment is critical to sustainable development and climate change mitigation. This Special Issue seeks to explore the prospects, challenges, and pathways, both from technological and policy perspectives, for advancing decarbonization in the building sector. It welcomes submissions addressing innovative technologies, energy efficiency strategies, sustainable materials, and low-carbon design principles.

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