



## Sustainable Urban Environment and Building Energy Efficiency

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### Message from the Guest Editors

Dear Colleagues,

Accelerated urbanization, caused by the rapid growth of the global population, has led to a significant increase in energy demand and greenhouse gas emissions, consequently contributing to global climate change. For instance, buildings in cities are responsible for 70% of total global energy consumption, representing more than two-thirds of CO<sub>2</sub> emissions. Therefore, good understanding and planning of energy use in buildings are crucial for establishing adequate future energy policies.

Accordingly, the use of passive technologies, renovation in existing buildings, sustainable energy sources, and cost-effective building designs have been accepted as an essential component of comprehensive solutions in built environments. This Special Issue is a platform for a wide range of professionals to enhance interdisciplinary research and share the most recent ideas in the related fields listed below for more sustainable buildings.

Guest Editors

Prof. Seung Hyun Cha

Prof. Choongwan Koo





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## Message from the Editor-in-Chief

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