



Sustainable Building Energy Analysis

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Message from the Guest Editors

As one of the largest sectors in terms of energy consumption, buildings consume 30% to 75% of primary energy. With the development of sensing technology and internet of things (IOT), an increasing amount of data is collected in buildings. How to analyze these data to improve the energy efficiency of buildings becomes a critical challenge for sustainable development.

At the design stage, some passive or sustainable technologies are considered, and renewable energy has been widely used in buildings. At the operation stage, building energy analysis is essential for building control optimization to promote energy efficiency, the big data analysis and machine learning methods also have been increasingly utilized to support applications relevant to buildings. At the retrofit stage, building energy modeling can facilitate the evaluation of energy conservation measures for existing buildings.

This Special Issue focuses on recent research in building energy analysis for sustainability. The scope includes the above mentioned topics. The aim of this issue is to provide an interactive platform and share current ideas from experts in the related fields.





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Message from the Editor-in-Chief

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