Special Issue

Energy Systems in Buildings

Message from the Guest Editor

Energy is about addressing sustainable development in the environment, social, and economic dimensions. Energy systems are central to the functioning of our society, and they are primarily designed to supply energy services to end-users. The purpose of energy systems is to minimize energy losses, to optimize the use of sustainable energy sources, and to ensure the efficient use of energy. To achieve this purpose, it is of urgent concern to consider climate change, carbon emission reduction, and energy security. The scope of this Special Issue includes the development of theories or technologies with clear links to energy efficiency, energy services, sustainable energy, and renewable energy technologies.

Guest Editor

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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.

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