



Energy Efficiency in Building and Energy Balance

Guest Editor:

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Message from the Guest Editor

With the development of technologies related to distributed energy resources, ICT, and artificial intelligence, buildings have become energy prosumers; not only consumers, but also producers. The process of energy conversion and energy efficiency in buildings has become more important. Different methods for balancing energy supply and demand in buildings in sustainable and efficient ways should be researched.

To achieve a more sustainable and efficient building from an energy point of view, there are many complex challenges in analyzing the energy balance of the building, installing energy infra and energy management systems, implementing proper algorithms, and ensuring users' comfort in a building. In response to such challenges, it is necessary to investigate building physics, emerging technologies in buildings, building energy balance assessment, techno-socio-economic analysis of the building, and related technologies.

This Special Issue will target diverse prospects in the energy efficiency in building and energy balance. This issue covers global, regional, national, and local topics and integrates social, economic, technical, and environmental approaches.





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