



Integration of Renewable Energy in Buildings for Sustainable Development

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Message from the Guest Editors

The sustainability assessment of buildings is becoming necessary for sustainable development, especially in the global construction sector. The main goals of sustainable design are to reduce depletion of critical resources such as energy, water, and raw materials; prevent environmental degradation caused by facilities and infrastructure throughout their lifecycle; and create built environments that are safe, productive, and effectively utilize water and solar energy.

Renewable energy technologies have wide ranging benefits, including economic development and job creation, national security, price stability, and environmental improvement. There is a pressing need to expand the use of onsite renewable energy sources in buildings. In exploring the use of off-site or on-site renewable energy sources for building utilization, designers and decision-makers should take on a number of challenges.

The scope of this Special Issue is to publish novel studies for optimizing the integration of on-site/off-site renewable energy generation and integration in existing/new buildings that overcomes the current limitations while also reducing CO₂ emissions.





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