

Special Issue

The Application of Renewable Energy in Sustainable Architecture

Message from the Guest Editors

In recent times, the world has become increasingly aware of the significant potential of Renewable Energy Sources (RES) as a replacement for non-renewable fossil fuel energy. The adoption of building integration of RES can fundamentally change the design methodologies that affect residential and commercial buildings throughout the world. Consequently, architects will have to deal with the architectural integration issues. The application of renewable energy in sustainable architecture is the result of a controlled and coherent integration of the new technologies from all points of view: Functional, constructive and aesthetic. The building has to fulfill a wide and complex set of protection and regulation functions, requiring the use of different structures, components, and HVAC systems. The integration of RES systems in buildings should be studied very carefully for a sustainable development.

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