

Feasibility Analysis of Active and Passive Technical Integration of Rural Buildings

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Abstract : In the process of urbanization in China, the rapid development of urban construction has been achieved, but a large number of rural buildings still continue the construction mode many years ago. This paper mainly analyzes the rural residential buildings in the hot summer and cold winter regions analyze the active and passive technologies of the buildings. It explored the feasibility of realizing the sustainable development of rural buildings in an economically reasonable range, using mainly passive technologies, innovative building design methods, reducing the buildings' demand for conventional energy, and supplementing them with renewable energy sources. On this basis, appropriate technology and regional characteristics are proposed to keep the rural architecture retain its characteristics in the development process. It is hoped that this exploration can provide reference and help for the development of rural buildings in the hot summer and cold winter regions.

Keywords : the rural building, active technology, passive technology, sustainable development

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