



are more complex ...

In general, the application of passive photovoltaic technology in China's rural residential building has lower cost, stronger targeted and better effect, and it is an indispensable part to realize the green ecology of rural buildings.

Taking multi-storey residential buildings for example, the unit area energy ...

Jin Yujie (Jilin Jianzhu University, Changchun, China) To save energy and commit to the environmental protection and sustainable development of green ecological buildings, how to integrate solar energy systems with the reconstruction of multi-storey residential buildings has become a key area of growth in the current construction market.

Taking multi-storey residential buildings for example, the unit area energy consumption of China is 2-5 times of that in developed countries under similar weather conditions. Furthermore, the energy consumption of residential buildings with air-conditioning systems is 6-7 times that of ordinary residential buildings [2] .

Based on the developed mathematical model, this paper assesses the solar irradiation resources and BIPV potential of residential buildings in different climate zones of China. It is found...

Research on the integrated design of solar thermal energy systems and existing multi-storey residential buildings. Wang Ruozhu (Jilin Jianzhu University, Changchun, China) Qian Yongmei (Jilin Jianzhu University, Changchun, China), qianyongmei@jlju .cn Tian Wei (Jilin Jianzhu University, Changchun, China)

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