

Solar power generation in high-rise residential buildings

A group of researchers in the Middle East has assessed how building-integrated photovoltaics (BIPV) may help reduce electricity consumption in high-rise buildings in Dubai, in ...

Office buildings [52] and residential apartments [53] in cities are usually high-rise buildings with high energy intensity or limited effective area for PV installation. This results in a ...

In China, multi-family residential buildings can be mainly divided into low-rise (1-3 storeys), multi-storey (4-6 storeys), mid-rise (7-9 storeys) and high-rise (>10 storeys) ...

They focus specifically on high-rise buildings with BIPV facilities, using data-driven models incorporating qualitative and quantitative analysis. ... The authors propose a system that ...

One of the promising applications for cooling residential buildings is the solar chimney (SC) that is particularly convenient for hot and humid climates. ... transportation in ...

High Rise Residential Buildings Aisha Abu Aminu, Stephen N Oluigbo, Joy Joshua Maina ... components power generation performance are considered to be secondary to its role as ...

Buildings account for a significant proportion of total energy consumption. The integration of renewable energy sources is essential to reducing energy demand and achieve ...

It is valuable to evaluate the solar energy potential of buildings in the design stage, because how to efficiently apply PV technology in urban buildings is being concerned ...

At present, the development of renewable energy is a common goal, and there is a global consensus among countries around the world. By 2023, the global cumulative power generation will reach 77,620 terawatt-hours ...



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