SOLAR PRO.

Is solar lighting good for high-rise residential buildings and commercial buildings

It concentrates on typical high rise residential building designs which are developed solely for the purpose of accommodation and also custom designed high-rises that ...

Integrating solar PV technology with semi-transparent windows permits multifunctional operation as electricity generation and allowing natural light to enter the building, hence overall...

This guide is for accountable persons of a high-rise residential building. It helps you understand what you can do to manage building safety risks. High-rise residential buildings. A high-rise ...

Optimal configurations of high-rise buildings to maximize solar energy generation efficiency of building-integrated photovoltaic systems March 2019 Indoor and Built Environment 28(8):1420326X1983075

Due to high land cost in Hong Kong, majority of the residential buildings are developed into high-rise blocks over 20 storeys. The buildings usually adopt the central core design in which the lift core is located in the center to maximize the valuable peripheral areas for residential units.

By integrating solar generation and shading capabilities, BIPV kinetic façades deliver dual benefits, optimizing energy performance and reducing lifecycle costs, compared to traditional PV systems. Furthermore, effective daylighting strategies not only contribute to energy savings but also positively impact occupant productivity and comfort.

The building envelope of high-rise buildings in tropical regions is exposed to direct solar radiation and high external temperature, causing overheating within the building. Low rise buildings are comparatively less exposed because the roof of the low-rise buildings provides shading to a larger extent of the building. Therefore, it is

We investigate the feasibility to install daylighting system to enclosed lift lobbies in high rise residential buildings. Floor height restriction does not allow installation of light ...

These strategies can be applied and adapted to high-rise buildings by using direct solar gain, indirect solar gain, isolated solar gain, thermal storage mass and passive cooling systems.

We investigate the feasibility to install daylighting system to enclosed lift lobbies in high rise residential buildings. Floor height restriction does not allow installation of light pipes. We design a remote source solar lighting system composed offside-emitting fiber optic to solve the headroom problem. The annual

performance of the system ...

High rise buildings are seemingly well-tuned to their climate; and they provide a major portion of their own energy requirements through integrated passive design, daylighting, and...

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