

Solar energy solution for the third floor of a high-rise residential building

In China, 27.8% of total energy demand is dedicated to the building sector [22] while energy expenditure in residential and commercial buildings stands for about 40% of Europe's energy ...

The proposed FIPV facade designs could promisingly cover up to 31%, 40% and 45% of annual residential energy consumption for 11-floor high-rises with large, medium ...

Passive design strategies (PDS) are a fitting solution to reduce the ever-growing energy cost of residential high-rise buildings in tropical regions. ... this study investigated the ...

Facade Optimization of Building Integrated Photovoltaics (BIPV) For Sustainable Energy in High Rise Residential Buildings Aisha Abu Aminu, Stephen N Oluigbo, Joy Joshua Maina Abstract - ...

The high-rise residential buildings in cities become popular in China, accounting for over 40 % of the newly-built buildings [[13], [14], [15]].The facade spaces of the high-rise residential ...

5 ???; UG Hall IX is a high-rise residential building located in Hong Kong, utilized to validate the effectiveness of the proposed method. A specific area on the south facade was identified ...

Building height-In the Colombo Metropolitan Area in Sri Lanka, 13 floors or above is considered as a high-rise residential building (Urban Development Authority Sri ...

Cities play a crucial role in addressing global climate change [19].Urban morphology significantly impacts both the energy consumption and the local environment of ...

A typical high-rise (40-storey) public residential building in Hong Kong was selected as the case building, which has the energy use intensity of 106.6 kWh/m² for the ...

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The article deals with innovative and promising design of energy-efficient envelopes of high-rise buildings. The aim of the research is to study modern technologies and ...

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