



Energy saving and environmental protection requirements for high-rise solar energy

PDF | On Nov 7, 2019, Zhang Huawei published The Core Application of Energy-saving Technology for HVAC Systems in High-rise Buildings | Find, read and cite all the research you ...

Green buildings refer to buildings that pay attention to energy savings, environmental protection, sustainability and the livable environment during the building ...

Solar energy investments can meet energy targets and environmental protection by reducing carbon emissions while having no detrimental influence on the country's ...

In comparison with fossil fuels, solar energy contributes to saving the environment and it directly results in the high land, air, and water quality. Therefore, ...

In 2010, the Energy Performance of Buildings Directive (EPBD) recast introduced requirements with the objective of attaining environmental and energy efficiency goals adopting the nearly ...

While there are so many possible solutions to benefit altitude in high-rise buildings, this research just covers some of these suggestions such as temperature, air ...

The photovoltaic system and ground source heat pump system are introduced into the traditional cooling and heating source system for energy-saving design of the building. ...

Solar energy technologies and power plants do not produce air pollution or greenhouse gases when operating. Using solar energy can have a positive, indirect effect on the environment ...

The aim of research is to simulate the zones of solar radiation on the curved surfaces of the shells of high-rise buildings for the effective use of renewable solar energy.

Analyzing case studies illustrate that applying solar passive strategies in high-rise buildings have a meaningful effect on reducing the total annual cooling and heating ...

The building sector is significantly contributing to climate change, pollution, and energy crises, thus requiring a rapid shift to more sustainable construction practices. Here, we review the ...

Incorporating wind energy into buildings can fulfill about 15% of a building's energy requirements, while solar energy integration can elevate the renewable contribution to 83%. Financial ...

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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, ...

PDF | The article describes technical proposals on energy conservation in high-rise buildings based on environmentally-friendly renewable energy... | Find, read and cite all ...

Renewable energy has been hailed as a formidable solution to the energy crisis over the last decades [13, 14] while avoiding adverse climate and nature-related ...

Shanghai Tower has become a new landmark of Shanghai. In the current trend advocating green building and energy efficiency, considerations of wind loads and thermal characteristics of the perimeter structure of ...

Combined with the characteristics of high-rise buildings, the introduction of roof photovoltaic photo-voltaic heat integration system into the energy-saving construction of high ...

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