

## SolarTech Power Solutions

# Advantages of solar curtain wall in Equatorial Guinea office building



## Overview

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Photovoltaic curtain walls offer Equatorial Guinea's office buildings a unique combination of energy independence, cost savings, and environmental responsibility. Does Equatorial-facing façade design affect energy performance of multi-story buildings?

The current paper presents a study of the effect of equatorial-facing façade design on energy performance of multi-story buildings. Façade surfaces are assumed to be in the form of curtain walls, allowing for freedom in the design of surface geometry.

What is photovoltaic curtain wall?

Photovoltaic Curtain Wall generates energy in the building implementing solar control by filtering effect, avoiding infrared and UV irradiation to the interior.

How can a curtain wall system increase solar power in tall buildings?

Increasing electrical generation and solar potential of tall buildings can therefore be attained by manipulation of the geometry and other design features of the facades, subject to visual and functional constraints, such as window design and positioning. A curtain wall system represents an efficient way to integrate photovoltaic modules.

What are the advantages of photovoltaic curtain wall?

Photovoltaic curtain wall may offer advantages including reducing temperature rise of wall surface and consequently the heat-exchange between outdoor and indoor, offering sun-shading by utilizing semi-transparent photovoltaic panels, and can be utilised for aesthetic effects.

What is a curtain wall system?

which is considered as a curtain wall to protect the building from impacts. These panels, which are glazed and made of very light materials, are only designed to carry glass. This system is currently an architectural choice for office and

commercial buildings. In which buildings can the curtain wall system be installed?

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Are curtain wall systems a new building facade model?

With the growth of the architecture and building industry as well as new technologies in the building industry, curtain wall systems have quickly opened their place in the city view as one of the new building facade models.

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