

Kongres Container

Nigeria Building Renovation solar Curtain Wall Project



Overview

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 adaptive technologies improve the performance of curtain walls?

In the building sector, curtain walls (CWs) account for the majority of unwanted solar heat gain and consume most of the energy used. In this context, adaptive technologies (ATs) offer a wide range of alternative solutions to improve the performance of CWs.

How can curtain walls improve the performance of a building?

Integration scenarios are evaluated through SWOT analysis and performance criteria. The performance of curtain walls is enhanced by integrating adaptive technologies. Energy efficiency and the reduction of carbon emissions have become the main climate goals for newly constructed or existing buildings.

What is the proposed curtain wall retrofitting framework?

The proposed curtain wall retrofitting framework is a decision-making framework for retrofitting existing CWs, based on ATs integration. The retrofitting process is presented in three stages: pre-retrofit survey, retrofit process, and monitoring process. Each stage is divided into steps, as shown in Fig. 4.

What is a curtain wall?

Curtain walling refers to a non-structural cladding system made from fabricated aluminum, commonly used on the outer walls of tall multi-storey buildings. This lightweight material offers ease of installation and can be customized to be glazed, opaque, or equipped with infill panels.

What is the three-stage framework for curtain wall retrofitting?

The three-stage framework is a decision-making guide for curtain wall retrofitting. The problem-solving process is based on retrofitting and adaptive technologies. Curtain wall systems, retrofitting levels and adaptive technologies are discussed. Integration scenarios are evaluated through SWOT analysis and performance criteria.

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