ContainerPower Energy Solutions

Advantages of solar curtain wall in Croatian office building

Overview

In contrast, a photovoltaic curtain wall not only insulates the building but also generates power for over 30 years. This reduces monthly electricity bills and ultimately pays for itself over time.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.

Why are curtain walls so popular in Europe?

Curtain walls are an increasingly demanded solution for building envelopes in the commercial sector. Despite the recent recession, curtain wall demand in Europe has continued to grow steadily. Office buildings constitute the predominant customer segment for curtain walls, accounting for over 55% of their European market share .

Who uses curtain walls?

Office buildings constitute the predominant customer segment for curtain walls, accounting for over 55% of their European market share . Curtain wall technology is also being increasingly adopted in many public buildings, and even for high-end residential projects.

Do curtain walls reduce energy consumption?

Despite recent efforts on heat loss mitigation (relying on additional glass panes, coatings or thermal breaks to framing elements) curtain walls remain a significant contributor to the energy consumption of such buildings.

Is prefabrication the future of curtain walls?

There is a strong trend towards prefabrication: industrialised modular curtain walls (unitized systems) have achieved a strong dominance within the European curtain wall industry, and already represent 65% of the market .

Why is a curtain wall dimensioned?

The curtain wall is dimensioned to provide the necessary air flow to satisfy the ventilation requirements of the building. Spanish legislation establishes a minimum renovation air flow of 12.5 dm3/s per person to satisfy indoor air quality requirements of office buildings.

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