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Solar curtain wall design for Sudan office building





Overview

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 is a photovoltaic curtain wall?

They enhance thermal comfort and help prevent the greenhouse effect. A standard curtain wall offers no return on investment. 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 a curtain wall system?

Here are experts' views and some tips that should be followed. Douglas Sum, Partner, and Co-Owner, Heroes Architects and Engineers, believes that the key elements of the curtain wall system, or the definition of façade, are the 'Barriers on the outer skin of a building, for separating interior space from the exterior environment.

What are the challenges faced by a curtain wall consultant?

According to Susanna, the biggest challenge that is faced by a consultant is convincing the client for the best performance and the best suitable system of a curtain wall design which may exceed the investment cost but has a higher return. These figures are not tangible at first moment; however, we see that better quality is a long-term investment.



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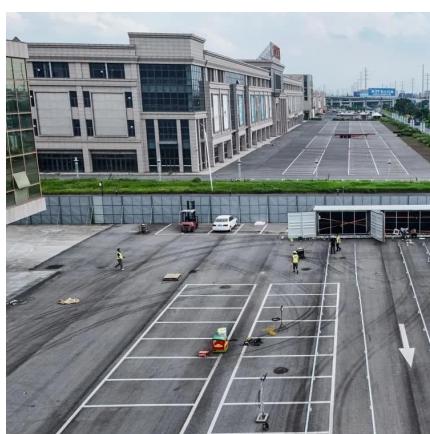
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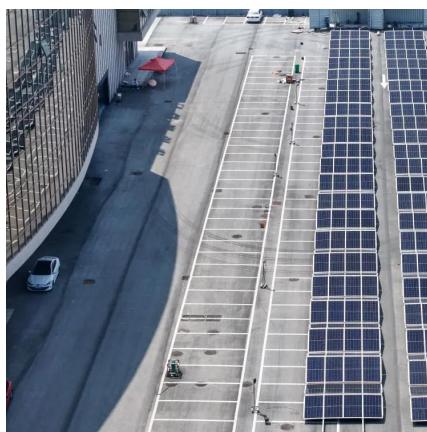
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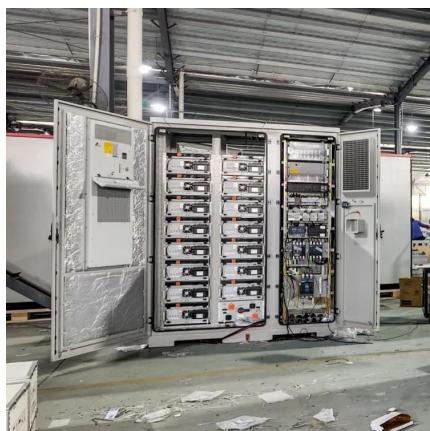
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