Solar curtain wall design for Abu Dhabi office building

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How did Aedas Architects design Abu Dhabi's Al Bahar towers?
To address this,Aedas Architects designed a responsive facadefor Abu Dhabi's Al Bahar Towers,drawing inspiration from the mashrabiya,a traditional Islamic lattice shading device. Completed in June 2012,the 145-meter towers feature a Mashrabiya-inspired shading system,developed by Aedas' computational design team.

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 are aluminum curtain walls?
The aluminum systems are not only easy to transport but also straightforward to manufacture. Curtain walls --also known as glass façades and exterior glazing systems--convert previously unused spaces into energy assets,enhancing both aesthetics and functionality.

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.

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At the centre of this concept was the adaptive facade system, which provides an active way to control solar heat gain while lowering energy use and maximising natural light.

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The two towers embed an ill-contradiction where a curtain wall in Abu Dhabi is protected by a complex electronic and mechanical technology. A root cause analysis will ...

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