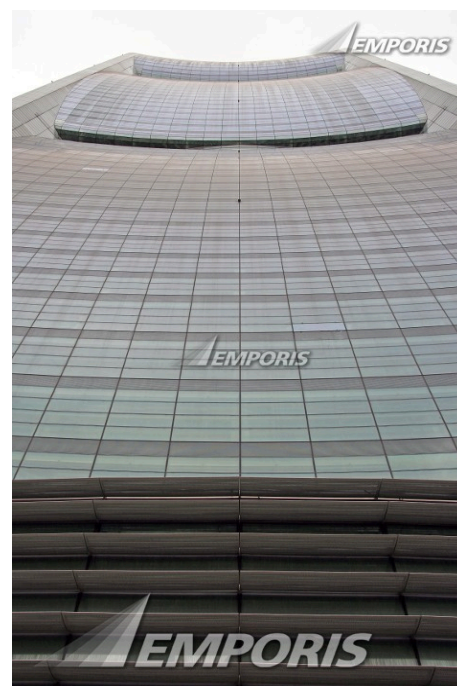
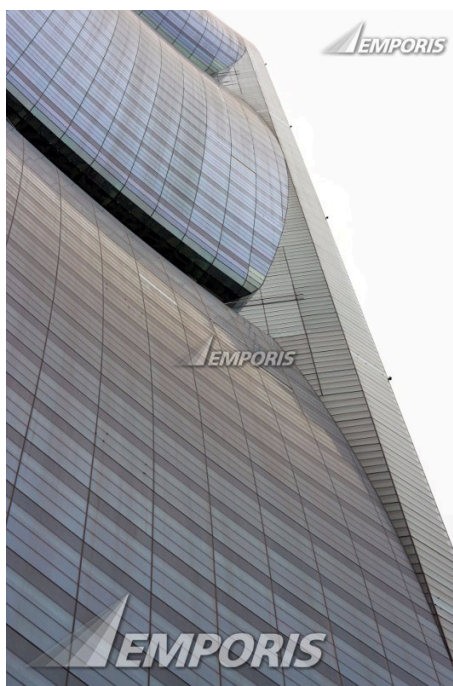
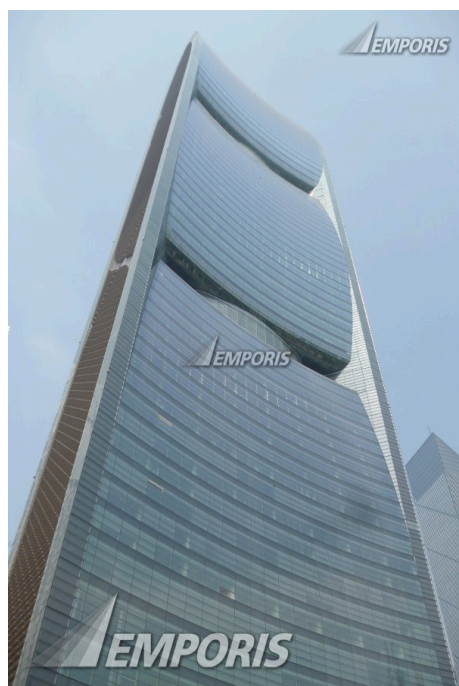


Pearl River Tower



Identification

EBN	275364
Name	Pearl River Tower
Alternative Name	Guangdong Tobacco Building
Construction Type	skyscraper
Current Status	existing [completed]



Location

Continent Name	Asia	Metro Area Name	Guangzhou Metro Area
Country Name	China	City Name	Guangzhou
State Name	Guangdong	Address (as text)	Zhujiang Avenue West

Description

Structural Material	composite structure	Facade Color	light gray
Facade System	curtain wall	Architectural style	modernism
Facade Material	glass steel	Main Usage	commercial office

Spatial dimensions

Height (structural)	1,015.75 ft	Floors (overground)	71
Height (tip)	1,015.75 ft	Gross Floor Area (GFA)	Buy full PDF
Height (roof)	1,015.75 ft		

Years and costs

Year (construction start)	2006	Year (construction end)	2012
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Features & Amenities

- Observation floor is available
- Solar panels are installed
- Wind turbines are present

Facts

- The north and south faces utilize an internally-ventilated double-skin facade with automated blinds.
- The tower was designed to be the world's most energy efficient super-tall tower ever built.
- The facade system is designed to optimize use of daylight and simultaneously control solar loads.
- Employs a chilled-ceiling radiant cooling system.
- The building is designed to be 58% more energy efficient than requirements stipulated by local building codes.
- There is a graywater recycling system in place to reduce water consumption.

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- The sculptured form of the tower helps to direct winds at accelerated speeds to the pair of turbine inlets in each of the mechanical areas.
- Exhaust air is routed up through the cavity of the double-skin facade to the mechanical floors, where it is used by the ventilation and dehumidification system as an energy source.
- Photovoltaic panels are integrated into the external shading system and glass outer skin.
- The east and west elevations have a triple-glazed facade with external shades and automated blinds inside the glazing cavity.
- The building utilizes a raised-floor displacement ventilation system.
- The building's orientation was dictated by the direction of the prevailing wind.
- Building has two major mechanical areas where turbines generate electricity from the wind blowing through the floors.

Awards

Name	Category	Rank	Year
Emporis Skyscraper Award		6	2012

Involved companies

Architect.....

Skidmore, Owings & Merrill LLP

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Fax +1 312 360 4545
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Sustainable Design Consultant.....

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Additional company data available for this building

Client	Buy full PDF	General Contractor	Buy full PDF
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