



Building Integrated Photovoltaics (BIPV)

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Introduction To JinKo Solar



No.1 Shipment for 4 Consecutive Years

70GW+

Delivered

14.3%

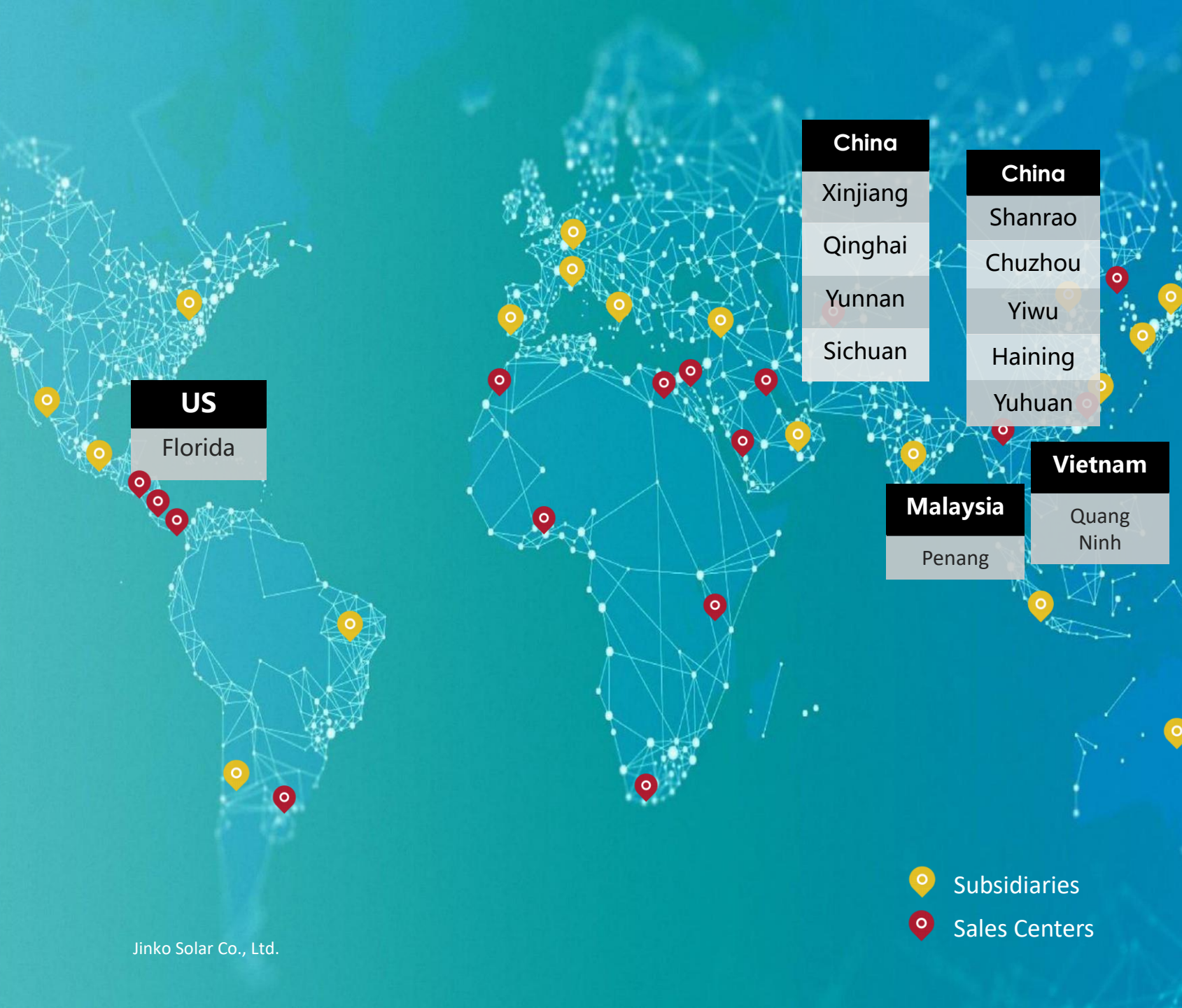
Market Share

17

World Records

32GW

Module Capacity



JinkoSolar Global Layout

Providing highly localized solutions

12
Production Bases

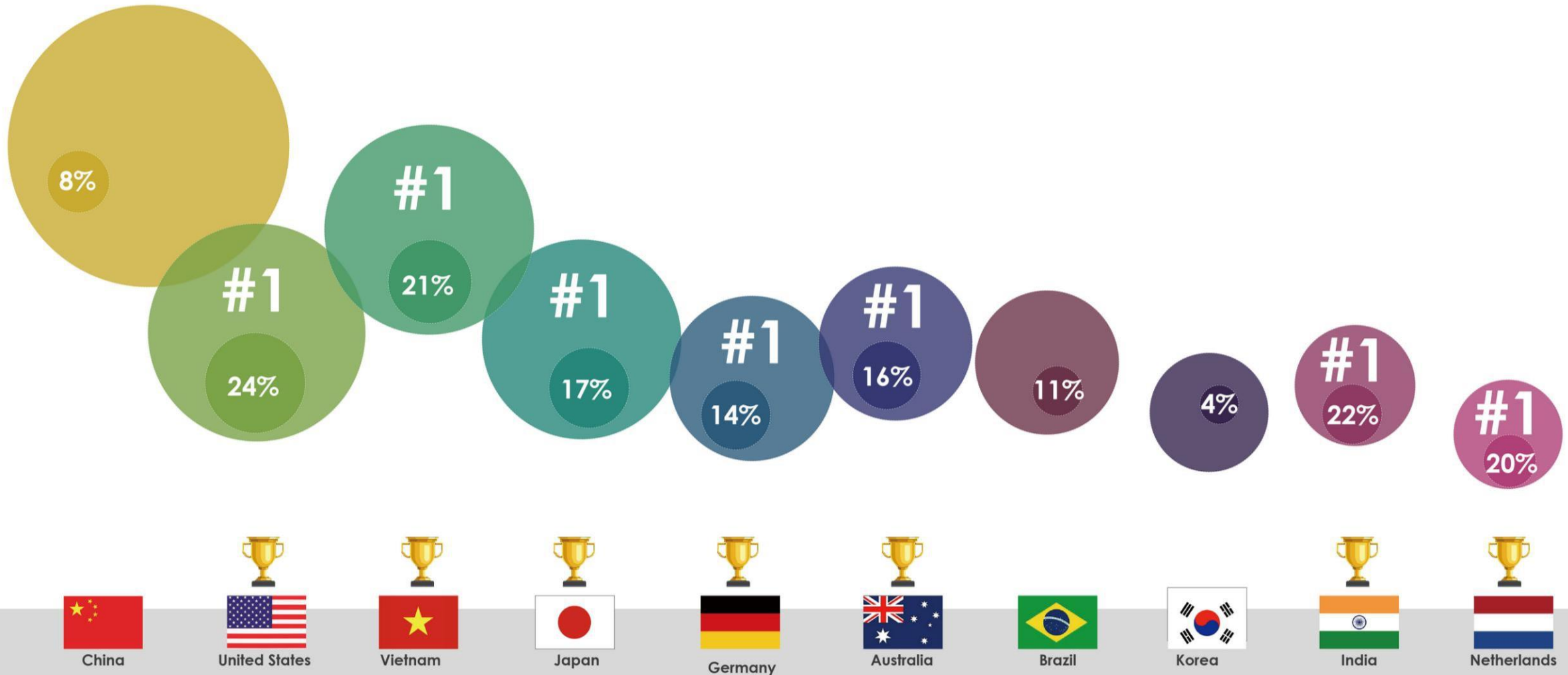
25,000+
Employees

30+
Service Centers

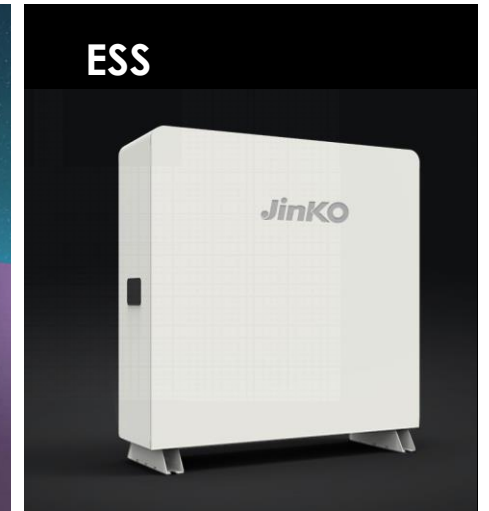
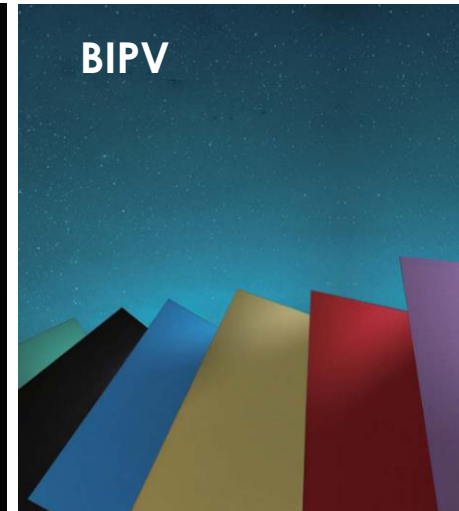
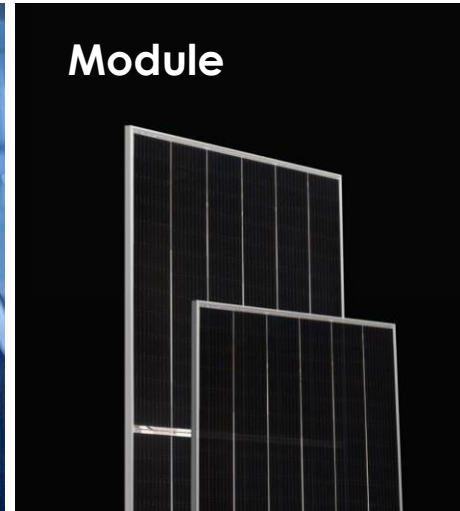
3,000+
Customers

160+
Covered Countries

Market Share Rankings in Top 10 Markets – 2020



What We Do



Solar Business

Continuously expanding the production capacity of silicon wafers, cells and modules, to create a vertically integrated PV industrial chain

Our Solutions

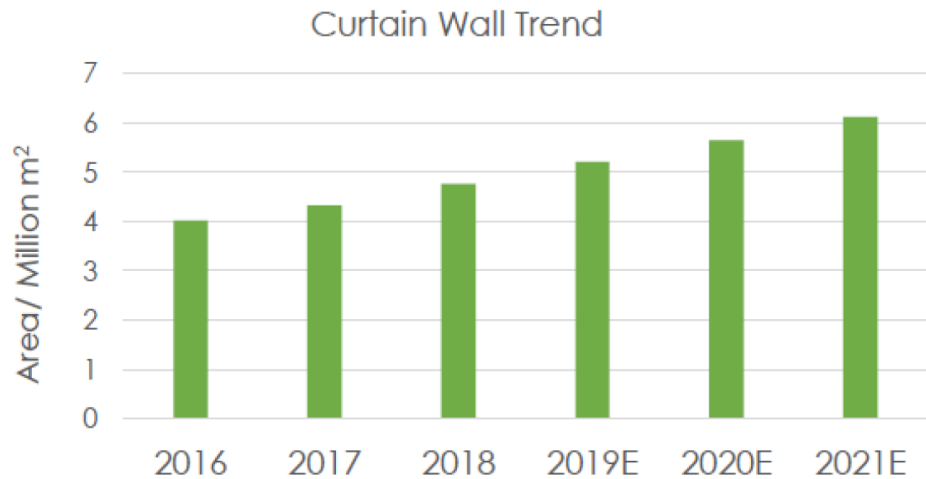
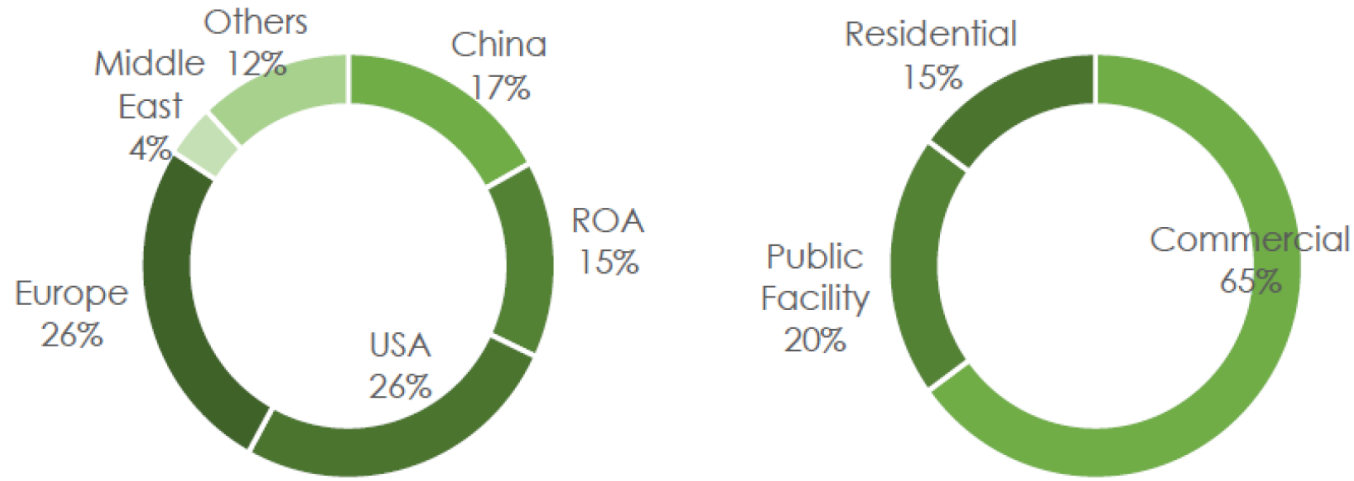
BIPV+BAPV to foster the development of green buildings
Solar+ Solutions and Energy Storage System



Building Integrated PV (BIPV)

BIPV Market Overview & Potential

Global curtain wall distribution & Application distribution



2016~2021

New Curtain Wall Trend

In China

Huge Potential

Over **3 trillion yuan** total output value of curtain Wall

High growth rate

Over **10%** annual growth rate of curtain Wall

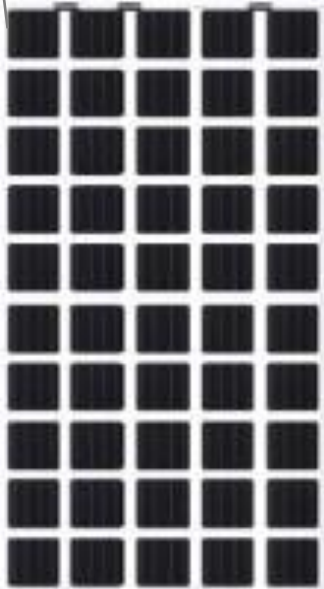
Considerable Scale

600~1000 billion/year market size expected

Our Products – Building Integrated PV (BIPV)

Transparent BIPV

450-600 Wp



Ocean Blue BIPV

370-390 Wp



Forest Green BIPV

400-420 Wp



Classic Black BIPV

535-550 Wp



Mid-Summer Purple BIPV

350-370 Wp



BIPV Vs Dual Glass Products



BIPV

Encapsulant
PVB

Glass Thickness
Up to 10mm

Glass Color
Multiple Options

Transparency
Up to 30%

Dimensions
Flexible

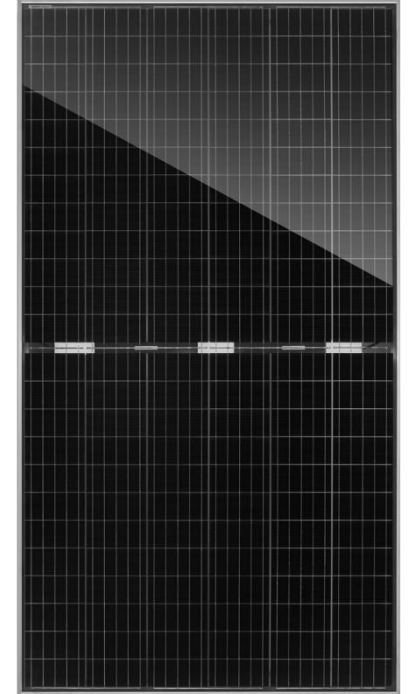
Encapsulant
EVA/POE

Glass Thickness
Up to 3.2mm

Glass Color
Transparent

Transparency
Less than 5%

Dimensions
Fixed



**Dual
Glass**

BIPV Added Value (Case Study)



Location: Dubai, United Arab Emirates
Available Roof Area: 1,200 m²
Façade Available Area: 6,000 m²
Electrical Consumption: 2,873,600 kWh/yr

PV system on the roof: 96 kWp
Expected Generation: 158,400 kWh/yr
Percentage of Coverage: 5.5%

BIPV system Installed: 1,650 kWp
Expected Generation: 1,402,500 kWh/yr
Percentage of Coverage: 48.8%

Total Coverage: 54.3%

BIPV Multiple Applications



Skylight



Spandrel



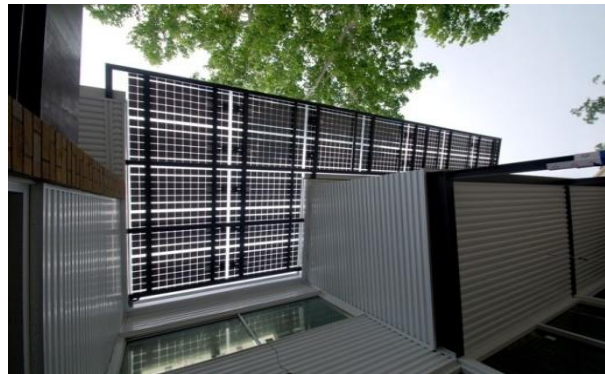
Green house



Shading



Wall-hanging



Fence



Tile



Louver

BIPV References



Project Name : Hangzhou Xixi Wetland Dragon Tongue Tourist Service Center

Characteristics :

- Reasonably and efficiently applied various green building technologies such as ground source heat pump, solar thermal photoelectricity, and building energy intelligent management system;
- The project won the double awards of LEED Platinum Certification and Jing Rui Award Medal.



Project Name: Tianjin Energy Eco-city

Characteristics :

- Two-star green building ;
- The whole building adopts curtain wall integrated photovoltaic power generation technology, combined cooling and heating power supply and smart grid technology.

BIPV References



Project Name: Positec headquarters in Suzhou

Characteristics :

- Technology, intelligence, ecology and environmental protection in one.
- China's green three-star building, Third Prize of China Green Building Innovation Award, American LEED-NC2009 Platinum certification.

Project Name: Sound barrier in Seoul, Korea

Characteristics:

- Tailor-made n-type double-sided power generation component, high generating capacity;
- Solar sound barrier meets local noise reduction standards, outdoor <60dB;
- Optimize the frame structure and solve the occlusion problem; optimize the system design plan and increase the power generation of the system by 5%;

Local Bifacial Dual Glass References



Project Name: DEWA Mohammad bin Rashed Al Maktoum Solar Park (Phase V)

Capacity: 1,065 MW

Characteristics :

- Project is in the supply and installation process.
- To be the biggest phase of the Mohammad Bin Rashed Al Maktoum Solar Park.
- Project provided all technical requirements and extended testing assuring best performance.



Project Name: Abu Dhabi International Airport

Capacity: 4 MW

Characteristics:

- Project was installed as a parking structure providing shading and free electricity for the airport.
- Modules used generated more than 7% of expected electricity from monofacial modules despite having unstable albedo factor .

JinKO Solar Co., Ltd



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