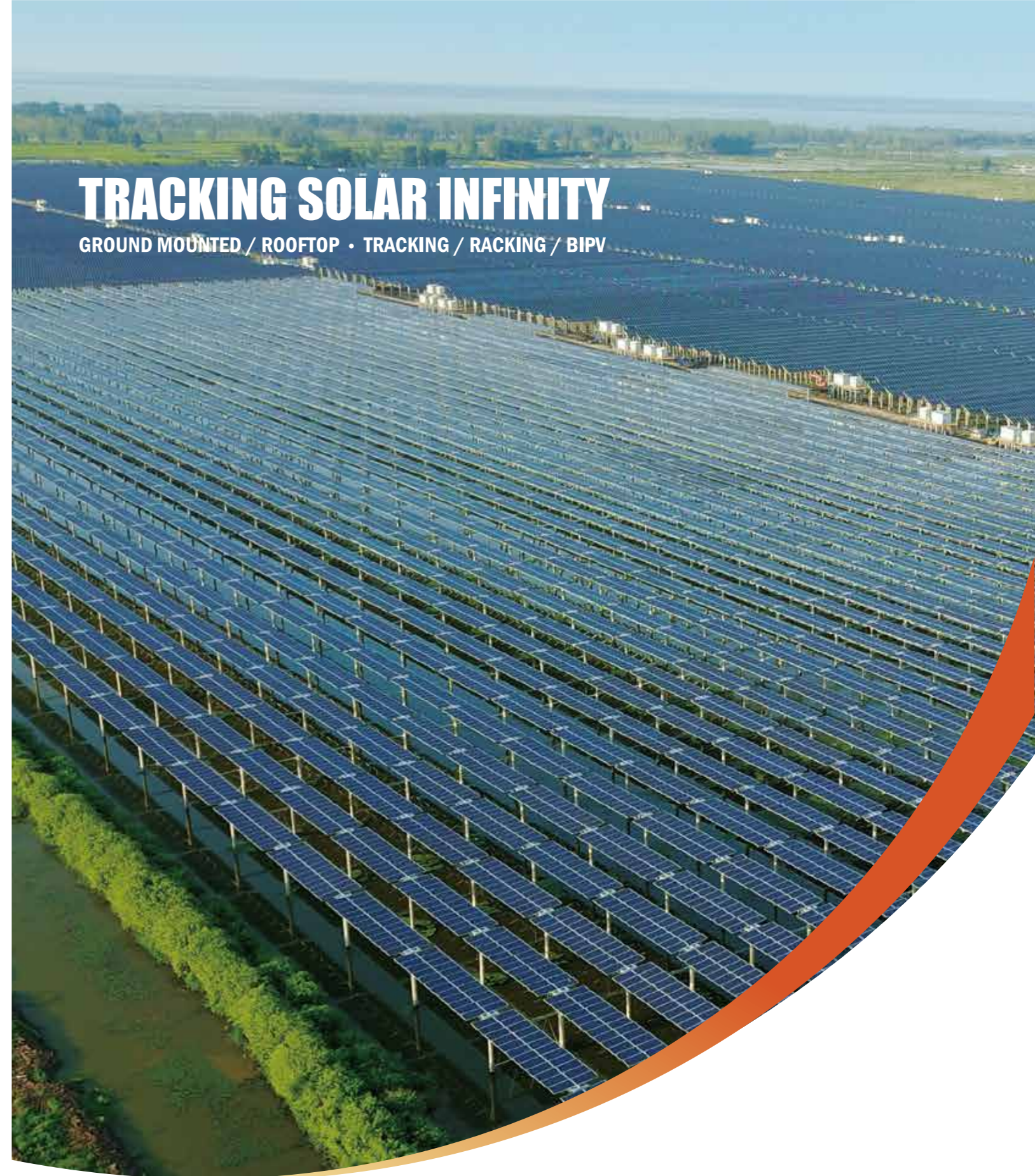




Wherever your projects are,  
we will be there.



# TRACKING SOLAR INFINITY

GROUND MOUNTED / ROOFTOP • TRACKING / RACKING / BIPV





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● Kunshan, China

## COMPANY OVERVIEW

Founded in 2009, Arctech Solar is one of the world's leading manufacturers and solution providers of solar tracking, racking and BIPV system with approximately 800 employees worldwide as of the end of 2019 employees worldwide. It is headquartered in Kunshan, Jiangsu Province of China, with marketing centers and manufacturing bases in Shanghai and Changzhou.

In the past decade, Arctech Solar has successfully set up overseas subsidiaries/marketing & service centers in the U.S., India, Japan, Spain, Mexico, Chile, Australia, UAE and Vietnam. As of 2019, It has cumulatively installed around 24GW capacity and successfully executed approximately 900 projects in 24 countries.

Arctech Solar has been continually reinventing itself to bring technology-driven solutions in the solar industry. With continuous R&D investment keeping in-trend with industry's evolving dynamics, advanced futuristic innovation in tracking technology and vertically integrated production capacity, Arctech Solar has been ranked amongst top 5 tracker suppliers in the global PV market for the fourth consecutive year, making it a reliable partner in the global PV tracking and racking industry (source: IHS Markit and Wood Mackenzie).

## OFFICES & BRANCHES



● Changzhou, China  
Manufacturing Base



● Shanghai, China  
Global Business Center



● Tokyo, Japan



● Mexico City, Mexico



● Dubai, UAE



● New Delhi, India



● Sacramento, USA



● Sydney, Australia



● Madrid, Spain



● Ho Chi Minh City, Vietnam



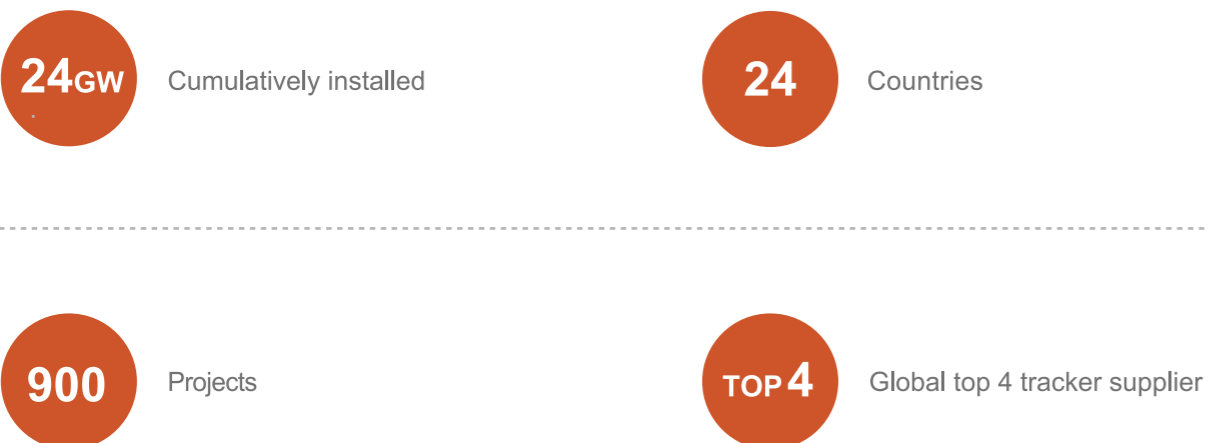


575MW Oman SkyLine Tracking System+Bifacial Modules (under construction)

## MILESTONE

- 2009** • Founded in 2009
- 2012** • Started PV structure business
- 2013** • Designed and produced tracking systems  
• Entered overseas markets
- 2014** • Launched linked tracker: Arctracker Pro  
• Entered the Japan and UK markets  
• Set up offices in Shanghai and Japan
- 2015** • Entered the India market  
• Completed multiple large-scale solar projects
- 2016** • Entered the Southeast Asia market  
• Ranked top 5 tracker supplier worldwide  
• Ranked No.1 tracker supplier in Asia-Pacific  
• Set up offices in India and the U.S.
- 2017** • Launched 2P tracker: SkySmart  
• Launched BIPV system  
• Entered Africa, and the Middle East market  
• Ranked top 4 tracker supplier worldwide  
• Ranked No.1 supplier of fixed and tracking system installed cumulatively
- 2018** • Launched 1P tracker: SkyLine  
• Entered the Australia, LATAM and South Europe markets  
• Set up office in Spain  
• Ranked top 4 tracker supplier worldwide  
• Ranked No.1 tracker supplier in Asia-Pacific  
• Ranked No.1 supplier of fixed and tracking system installed cumulatively
- 2019** • Launched new 2P tracker: SkySmart II  
• Entered the Middle East market  
• Set up offices in Austria, UAE, and Vietnam  
• Ranked top 4 tracker supplier worldwide  
• Ranked No.1 tracker supplier in Asia-Pacific  
• Ranked No. 3 tracker supplier in the Middle East, North Africa

## ARCTECH FACTS



Australia



Mexico



UAE

Source: IHS Markit and Wood Mackenzie

Source: IHS Markit and Wood Mackenzie

## R&D LEADERSHIP

As the world-leading solution provider of solar tracking, racking and BIPV system, Arctech Solar commits to boosting the yields of the power generation with efficient and reliable products. It has a long-term investment in technology and product innovation. The R&D team has exceeded more than 100 personnel and obtained around 120 technical patents as of March 2020. The pursuit for excellence and customer satisfaction are the key drive indicators in order to design and deliver world class tracking and racking solutions.

To ensure product stability and reliability, Arctech Solar set up Jiangsu Smart Solar Tracking and Fixed Structure Engineering Research Center, Suzhou Solar Tracking System Equipment Key Laboratory and a TÜV accredited tracker test laboratory.

Arctech Solar has led the formulation and revision of a number of international standards. Now it has become one of the standardization leaders of solar tracking and racking industry.

ISO 9000, ISO 14000, OHSAS 18000, Patent Certificate



## SERVICE & SUPPORT

Arctech Solar supports client at every stage of a project including project design, product engineering, sales, project management and field supports.



### Financial Analysis

Optimize client's return of investment by running financial model to find the most economical tracker solution.



### Technical Proposal

Provide production simulation, project layout, foundation design, structure calculations, corrosion analysis etc.



### Field Support

Provide pull-out test services for some areas and instruction services for most of the tracker projects.



### Customer Services and Problems Diagnosis

Provide 24/7 response for urgent request.



### No Hidden Cost

Our offer includes tracker, posts, spare parts, on site instruction and training, and etc. No hidden cost comes later.



## MANUFACTURING EXCELLENCE

Arctech Solar's manufacturing base is located in Changzhou, Jiangsu Province. The factory covers an area of 280 acres, nearly 190,000 square meters, with dozens of independently designed production lines. With vertical integrated manufacturing capabilities and complete supply chain, Arctech Solar can deliver industry-leading quality products on time, and respond quickly to customer needs.

- Vertical Integration Manufacturing
- Powerful Production Capability
- Reliable Quality
- On-time Delivery



Tube Production



Laser Cutting



Steel Profile Production



Robotic Welding



Accessory Production



## INDEPENDENT ROW TRACKING SYSTEM

### SkyLine

#### Independent Row 1P Tracker

Stable, Simple, Cost-competitive



#### SkyLine Product Features



Specially designed  
D-tube  
Easy to install



Debugging  
by pressing  
a single button



LoRa-wireless  
communication  
Long range, low power



Industrial record  
20% N-S slope



String-powered  
system with back-up  
Li-ion battery



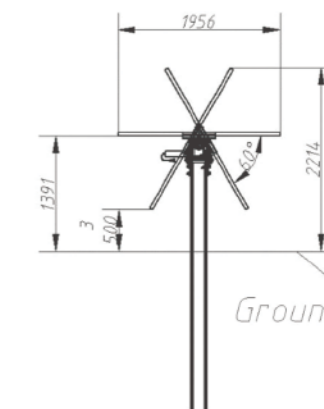
Strong  
wind-resistance  
capability

#### SKYLINE TRACKER SPECIFICATIONS

Tracking Type	Independent horizontal single-axis tracker
Tracking Range	$\pm 60^\circ$
Driving System	Slew drive, 28VDC motor
Modules per Tracker	Up to 90 modules per tracker
System Voltage	1,000 V or 1,500 V
Ground Coverage Ratio	Typical $\geq 25\%$
Foundation Options	All foundation types
Terrain Adaption	Up to 20% N-S slope
Structure Material	Hot dipped galvanized/Pre-galvanized steel
Power Consumption	Typical 0.02kWh/day
Daily Energy Consumption	Powered by PV strings, back-up Li-ion battery
Standard Design Wind Speed	105mph (47m/s) per ASCE7-10, higher wind load available
Module Supported	All commercially available modules
Operation Temperature	$-20^\circ\text{C} - 60^\circ\text{C}$ ( $-30^\circ\text{C} - 60^\circ\text{C}$ Optional)

#### ELECTRONIC CONTROLLER SPECIFICATIONS

Control System	1 controller per tracker
Control Algorithm	Astronomical algorithms + Tilt sensor close loop
Tracking Accuracy	$\leq 2^\circ$
String-Powered	Yes
Backtracking	Yes
Communication Options	LoRa wireless /RS 485 cable
Night Position	Yes



SkyLine Side View

## INDEPENDENT ROW TRACKING SYSTEM

# SkySmart

## Independent Row 2P Tracker

Less Civil, Flexible, Undulated Terrain



### SkySmart Product Features



Apply to bifacial modules  
mono-facial modules



Only 200 foundations/MW



LoRa-wireless communication  
Long range, low power



Industrial record  
20% N-S slope



String-powered system with back-up  
Li-ion battery



Risk-free drive-through  
module cleaning

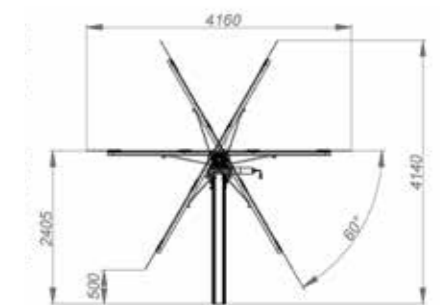


### SKYSMART TRACKER SPECIFICATIONS

Tracking Type	Independent horizontal single-axis tracker
Tracking Range	±60°
Driving System	Slew drive, 28VDC motor
Modules per Tracker	Up to 90 modules per tracker
System Voltage	1,000 V or 1,500 V
Ground Coverage Ratio	Typical ≥35%
Foundation Options	Ramming/Pre-drilling/Concrete Piles
Terrain Adaption	Up to 20% N-S Slope
Structure Material	Hot dipped galvanized/Pre-galvanized steel
Power Supply	Powered by PV strings,back-up Li-ion battery
Power Consumption	Typical 0.02kWh/day
Standard Design Wind Speed	105mph(47m/s) per ASCE7-10, higher wind load available
Module Supported	All commercially available modules
Operation Temperature	-20℃ - 60℃ (-30℃ - 60℃ Optional)

### ELECTRONIC CONTROLLER SPECIFICATIONS

Control System	1 controller per tracker
Control Algorithm	Astronomical algorithms + Tilt sensor close loop
Tracking Accuracy	≤ 2°
String-Powered	Yes
Backtracking	Yes
Communication Options	LoRa wireless /RS 485 cable
Night Position	Yes



SkySmart Side View



## INDEPENDENT ROW TRACKING SYSTEM

# SkySmart II

## Independent Row 2P Tracker

Single Row, Double Performance, Triple Safety



### SkySmart 2 Product Features

 <p>Synchronous multi-point drive</p>	 <p>Advanced slewing drive system</p>	 <p>Best solution for bifacial modules</p>	 <p>Artificial-intelligence algorithm</p>
 <p>Industrial record 20% N-S slope</p>	 <p>Optimized cost</p>	 <p>LoRa-wireless communication Long range, low power</p>	 <p>9 posts per system with 4×1,500V-strings of solar modules</p>

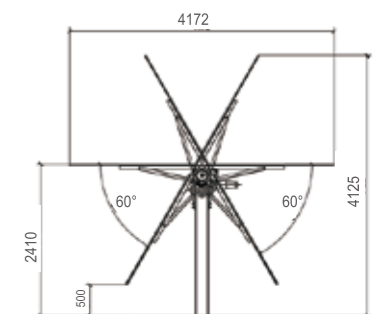


### SkySmart II TRACKER SPECIFICATIONS

Tracking Type	Independent horizontal single-axis tracker
Tracking Range	±60°
Driving System	Slewing drive, parallel multi-point design, with 4*1,500 strings of solar modules
Modules per Tracker	Up to 120 modules per tracker
System Voltage	1,000 V or 1,500 V
Ground Coverage Ratio	Typical ≥35%
Foundation Options	Ramming/Pre-drilling/Concrete Piles
Terrain Adaption	Up to 20% N-S Slope
Structure Material	Hot dipped galvanized/Pre-galvanized steel
Power Supply	Powered by PV strings, back-up Li-ion battery
Power Consumption	Typical 0.03kWh/day
Standard Design Wind Speed	105mph (47m/s) per ASCE7-10, higher wind load available
Module Supported	All commercially available modules
Operation Temperature	-20 C - 60 C (-30 C - 60 C Optional)

### ELECTRONIC CONTROLLER SPECIFICATIONS

Control System	1 controller per tracker
Control Algorithm	Astronomical algorithms + Tilt sensor close loop
Tracking Accuracy	≤ 2°
Backtracking	Yes
Communication Options	LoRa wireless/ RS 485 cable
Night Position	Yes








SkySmart II Side View



## Dual-Pole

With its advantage of high quality and durability, Arctech Solar dual-pole has become one of the most widely accepted solutions. Arctech Solar offers a variety of dual-pole solutions, such as 2P and 4H solutions.

### Dual-Pole Product Features

-  High structure stability
-  Concrete foundation, driving screw and screw piles are all applicable
-  High level of factory pre-assembly
-  No Welding at project site, fully adjustable for a perfectly installation
-  Self-grounding



Vertical Dual-Pole Fixed Structure



Horizontal Dual-Pole Fixed Structure

### Applicable for

Applicable to all utility-scale solar projects.

## Single-Pole

Arctech Solar single-pole is specially designed for quick installation. With unique adjustable connection design, single-pole shows high adaptability to different terrains.

### Single-Pole Product Features

-  Excellent adaptability to different terrains and environment
-  No need for land leveling and welding on project site, low construction cost
-  High level of pre-assembly



Vertical Single-Pole Structure



Horizontal Single-Pole Structure

### Applicable for

Applicable to all utility-scale solar projects.



## SMART ROOFTOP BIPV

Arctech Solar has been pursuing PV solution for industrial and commercial rooftops of BIPV since 2016. After several iterations of optimizations Arctech Solar's BIPV system conforms with the expected conventional building standards, such as anti-leakage, anti-sedimentation, anti-expansion. Meanwhile, it provides wind pressure resistance, airtightness, and water tightness for the building. With these unique characteristics, Arctech Solar's BIPV system has been successfully utilized in the Fengcheng project, which is the largest individual BIPV project in China to date.



40.9MW China Smart Rooftop BIPV

### Product Features



25 years power generation revenue



30% higher utilization rate of the rooftop



Meet the requirements of conventional building standards



Wind pressure resistance, airtightness, and water tightness

DESCRIPTIONS	BIPV	BAPV	COLOR STEEL TILE
Steel Load on Building	☹☹☹	☹☹☹☹☹	☹☹
Withstand External Load Capacity	☔☔☔	☔☔☔☔☔	☔☔
Upfront Investment	\$\$\$\$	\$\$\$\$\$	\$
Generation Capacity	☀☀☀☀☀	☀☀☀☀	×
Years of Use	25 years	10-15 years	10-15 years
Post-maintenance	√	√	×

DESCRIPTIONS	BIPV (10,000 m <sup>2</sup> )	BAPV (10,000 m <sup>2</sup> )
Steel structure plant infrastructure	same	same
PV power plant investment	same	same
Color steel tile roof construction costs	0	150,000 USD
25 years of maintenance fee	70,000 USD	70,000 USD
25 years of roof overhaul and replacement of roofing materials	0	150,000 USD
Effective installation of solar PV power station capacity	1.1-1.5MW	0.8-0.9MW

\* Estimated data according to market

For 1 MW rooftop power plant, the installed capacity of BIPV is 30% more than BAPV, and the construction and maintenance cost can be saved at least 300,000 USD.



**ACCOMPLISHED PROJECTS**



Location: Malawi  
Capacity: 75MW  
Technology: SkyLine Tracking System



Location: Mexico  
Capacity: 167MW  
Technology: SkySmart Tracking System



Location: China  
Capacity: 500MW  
Technology: SkyLine Tracking System + Bifacial Modules (under construction)



Location: Mexico  
Capacity: 118MW  
Technology: SkyLine Tracking System + Bifacial Modules



Location: Australia  
Capacity: 134MW  
Technology: Arctracker Pro



Location: India  
Capacity: 172MW  
Technology: Arctracker Pro



Location: Australia  
Capacity: 256MW  
Technology: SkySmart Tracking System



Location: Kazakhstan  
Capacity: 130MW  
Technology: SkySmart Tracking System



Location: Vietnam  
Capacity: 500MW  
Technology: Fixed Structure



Location: India  
Capacity: 648MW  
Technology: Fixed Structure



Location: Brazil  
Capacity: 90MW  
Technology: SkyLine Tracking System



Location: Mexico  
Capacity: 144MW  
Technology: SkyLine Tracking System