




Stand the Test of Time


2021.07

A GLOBAL LEADING SOLAR PROVIDER

Suntech, founded in 2001, as a famous Photovoltaic manufacturer in the world, is devoted to the R & D and the production of crystalline silicon solar cells and modules for 20 years. The Company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments exceeded 25 GW.

We aim to become the most trusted PV company through continuous innovation and excellent management.

 **20 Years**
Experience in manufacturing PV modules

 **25 GW+**
Global cumulative shipments modules-products

 **500+**
Authorized patents

 **100+ Countries**
Worldwide business footprints

SUNTECH MILESTONES

Stand the Test of Time

2001
Suntech was founded in Wuxi, China.

2002
Suntech initiated its first 10 MW production line with the capacity equivalent to China's total PV cell production in the previous 4 years.

2005
Suntech launched its initial public offering (IPO) on the NYSE as the first China's solar company.

2006
Suntech acquired MSK Corporation, one of Japan's largest PV manufacturers and its production capacity expanded to 300 MW.

2011
Annual production capacity reached 2.4 GW, and shipped 2.1 GW modules worldwide, which made Suntech the biggest PV module supplier for two consecutive years.

2008
Annual production capacity reached 1 GW.

2014
Shunfeng International Clean Energy Limited, a HKSE listed renewable energy investment / EPC company, announced to invest and acquire.

2018
Annual module shipment exceeded 3 GW. Suntech set up European Customer Service Center in Germany.

2019
Suntech's cumulative historical shipments exceeded 21 GW.

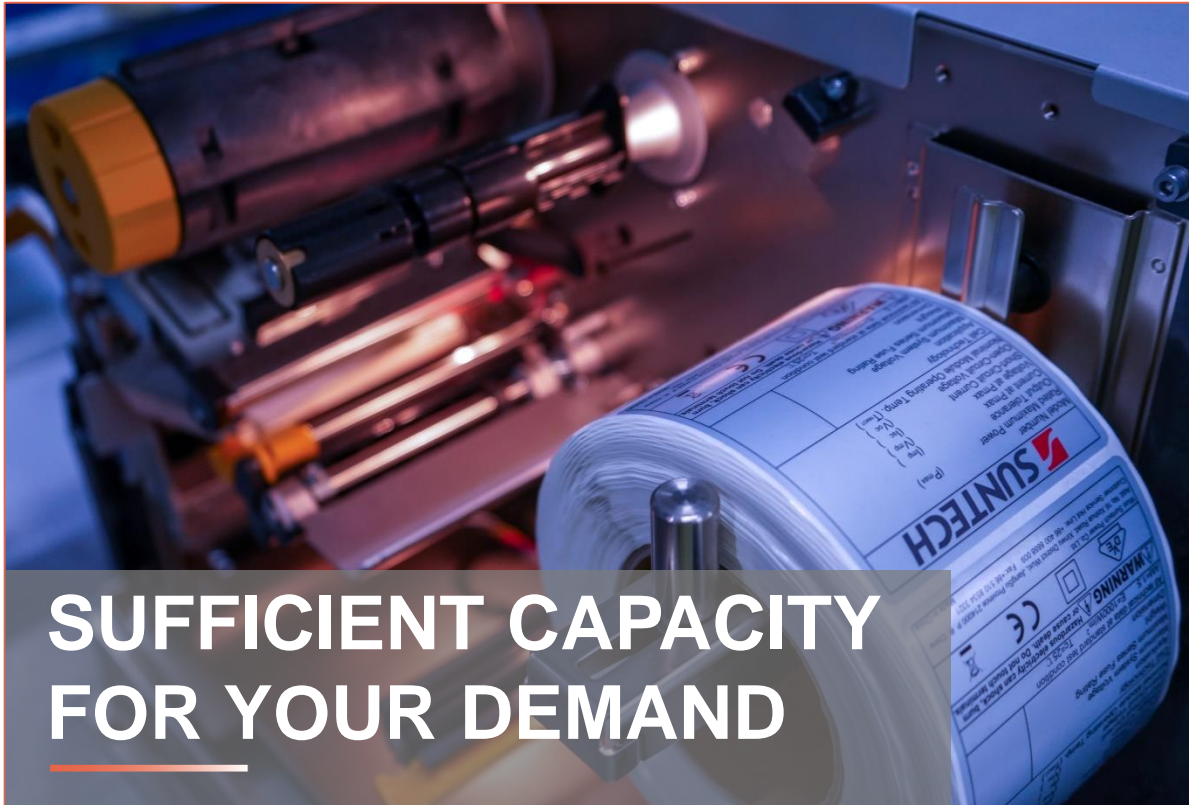
2020
Suntech's annual module capacity exceeded 10 GW/year.



GLOBAL FOR LOCAL

Suntech's business footprint covers more than 100 countries around the world, with more than 1500 industry-leading partners.





**SUFFICIENT CAPACITY
FOR YOUR DEMAND**



10 GW+

Solar Module Capacity

Group Capacity



WUXI



CHANGZHOU



INDONESIA



YANGZHOU



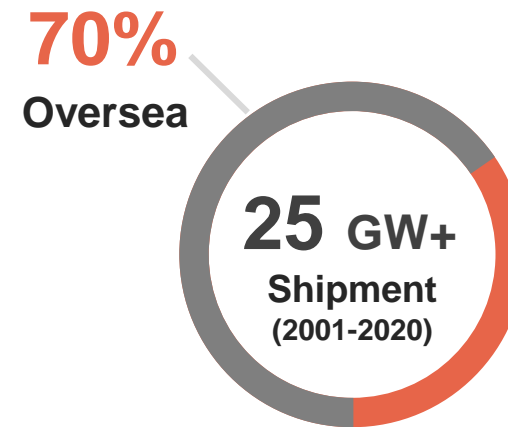
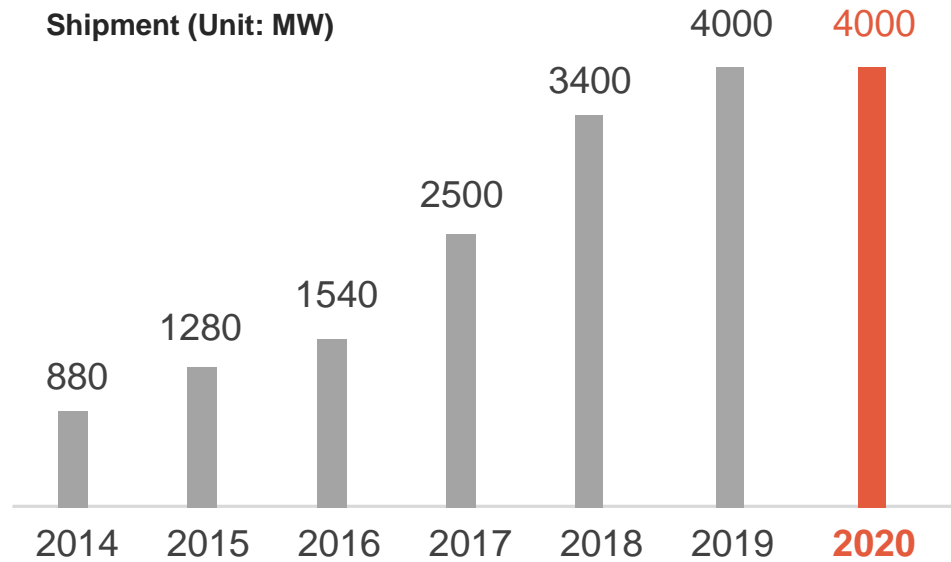
ZHENJIANG



ZIBO

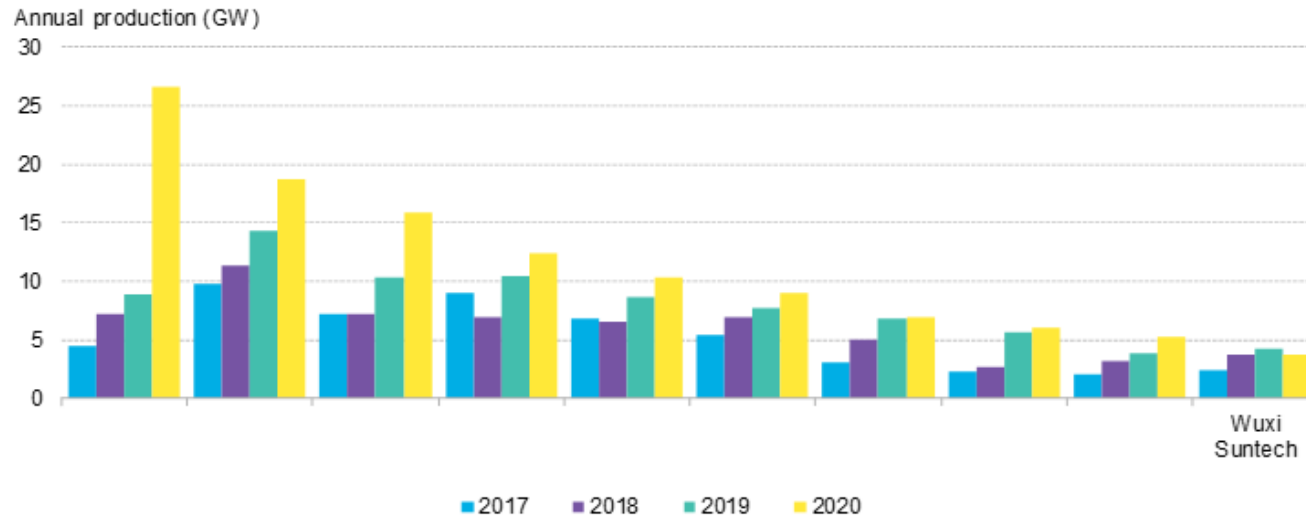
GROWING SHIPMENT

Suntech has supplied more than 25 GW of solar modules to global customers.



TOP10 MANUFACTURERS

Top 10 manufacturers by annual module production



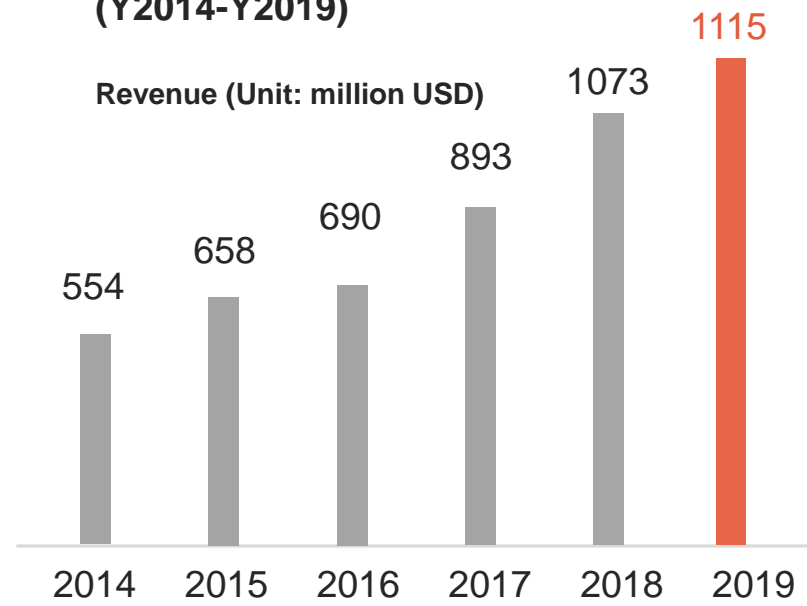
Source: [BloombergNEF](#).

Suntech is in the list of BloombergNEF's Top 10 manufacturers by annual module production.

TRUSTWORTHY FINANCE SUSTAINABLE GROWTH

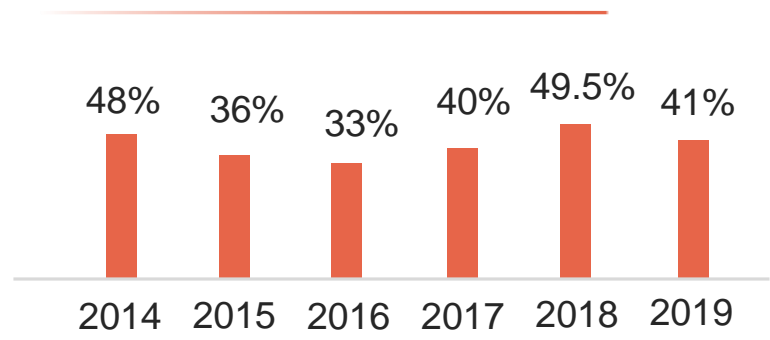
Annual Revenue

(Y2014-Y2019)



Asset-liability ratio

(Y2014-Y2019)



SOLID FINANCIAL STRENGTH AUTHORIZED CREDIBILITY

Stand the Test of Time

Bloomberg
NEW ENERGY FINANCE

Table 4: Photovoltaic module manufacturers meeting Bloomberg

Firm/ brand	Annual module capacity, MW/year
ZNShine	6,000
Waaree*	2,000
VSUN Solar*	2,600
Vikram Solar*	1,200
Ulica Solar	1,000
Trina Solar*	21,500
Talesun*	10,000
Swelect	140
Suntech*	10,000
SunPower/ Moxeon*	2,800
Sumec/ Phono Solar*	2,000
Shinsung	300
Sharp	210
Seraphim / SEG*	5,500
S-Energy	530
Risen Energy*	14,000
Renesola Yixing	1,500
Recom	460
REC Group*	1,800
Neo Solar Power/ URE	1,800
Longi*	45,000

Ranks Tier 1 by BNEF

dun & bradstreet

D & B Rating: 5A-
Moderate Low Risk

Financial Strength: 5A
Tangible Net worth > 450,000,000

PAYDEX of This Business: 80
Late Payment Risk: Low

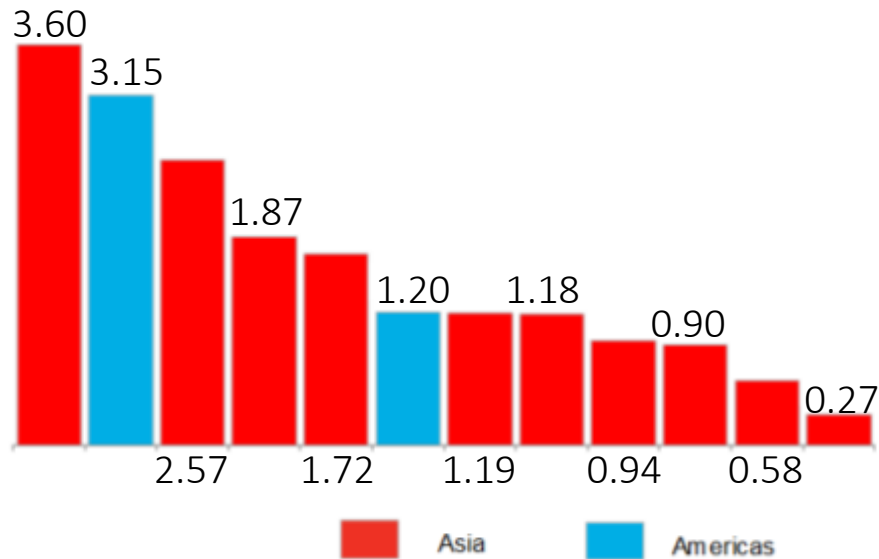
D & B Rating

Awarded by EuPD Research



TRUSTWORTHY FINANCE

Altman-Z scores of quoted pureplay solar manufacturers, 3Q or 1H 2019



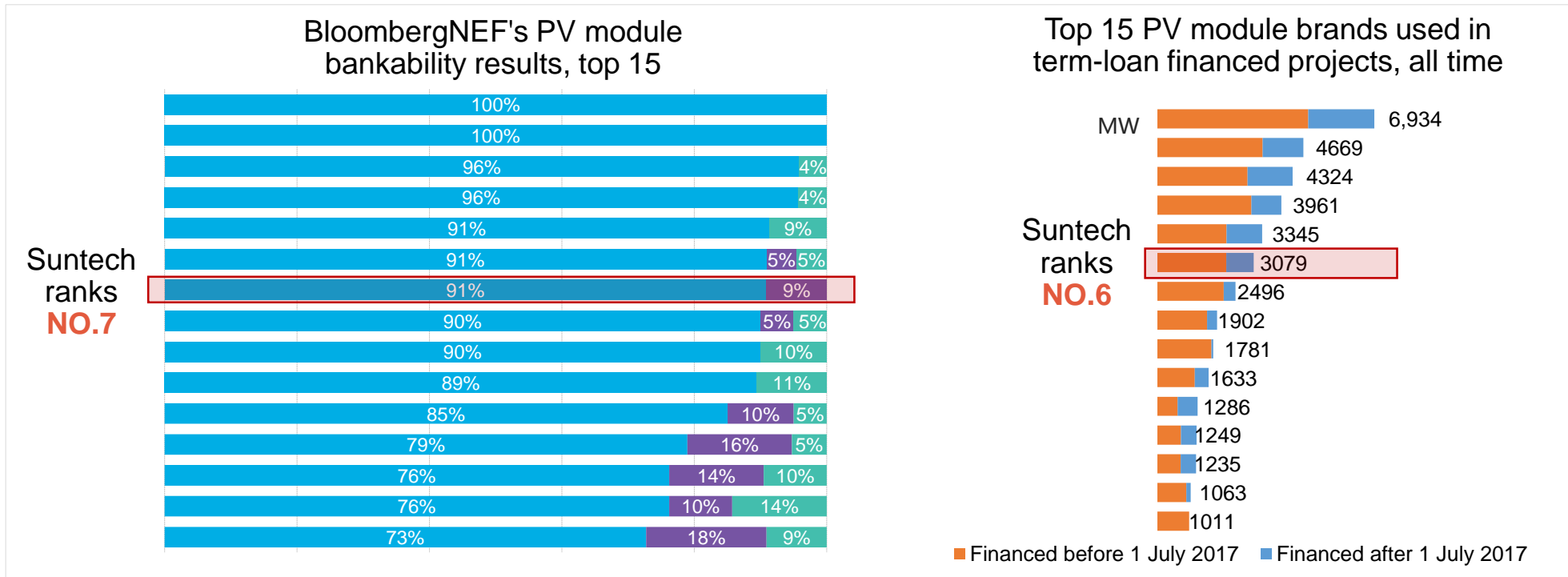
Source: BloombergNEF.

According to our financial data of 2019, the Altman Z-Score of Suntech is **2.19**, which maintained a superior level in the global PV industry.

The Altman Z-score is the output of a credit-strength test that gauges a publicly-traded manufacturing company's likelihood of bankruptcy.

It is based on five financial ratios that can calculate from data found on a company's annual 10-K report.

SUPERIOR BANKABILITY LEADING INNOVATION



Suntech is in the list of Top 15 BloombergNEF's PV module bankability results and ranks Tier 1 by BNEF in the long term.

SUPERIOR BANKABILITY LEADING INNOVATION



Black&Veatch validated Suntech bankability in a 2016 study.

Munich Re granted Suntech warranty back up insurance after extreme vetting.

MORE THAN A SOLAR MANUFACTORY



Suntech owns a National Level Testing Center for photovoltaic products certified by CNAS



From 2016 to 2021, Suntech awarded EuPD Research "TOP BRAND PV SEAL".



Suntech Recognized with Frost & Sullivan's 2016 APAC Renewable Energy Technology Growth Excellence Leadership Award.



World Economic Forum(WEF) recognized Suntech the most environmentally friendly company worldwide.



In 2011 and 2012, MIT Technology Review named Suntech one of the world's 50 most innovative companies.



In 2011, Suntech recognized Global Leader Award from Murphy & Spitz and Gigaton Prize.



Automatic Manufacturing

The advanced automatic production line opened a new era for capacity, Suntech module factory can work for various advanced technology production requirements, and achieve the transition from manufacturing to intelligent manufacturing.

Real-time Interaction Systems

Suntech's SAP and ERP business platforms can achieve real-time interaction, planning, execution, reporting and analysis, which makes them the most advanced business platforms and enables sustainable innovation.

The MES (manufacturing execution system) independently developed by Suntech supports efficient operation of production management and manufacturing process.

Traceability

The digital production allows Suntech to trace all incoming materials from suppliers during the production process from the beginning to final product. This is key too to have a rigorous quality control along the manufacturing process, to manufacture top quality product for our clients.

Elevated Warehouse

The integrated elevated and fully automated warehouse is a modernized three-dimensional warehouse integrating functions of warehousing for save and careful handling.

The hardware facilities allow containers and flat trucks shipping at the same time 24 hours a day to insure "in time" deliveries.

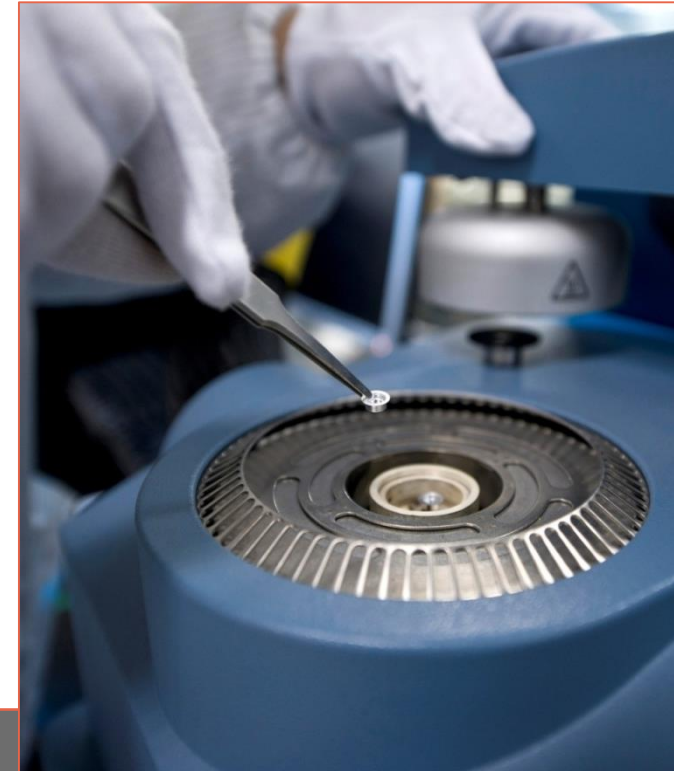
MORE THAN RELIABILITY

Suntech is fully certified by professional third party testing organizations.



Suntech is ranked as TOP Performer for a 4th year in the 2020 PV Module Reliability Scorecard, published by PVEL

In the partnership with DNV-GL.

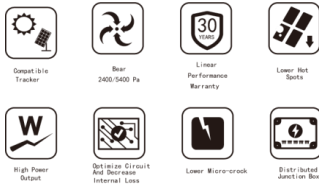


To ensure each Suntech module has better sustainability even in harsh environment like desert, farm, coastline, not only do we have self-checking process, but we also deliver them to world-famous third party test organizations for more stringent tests.

SUNTECH PRODUCTS

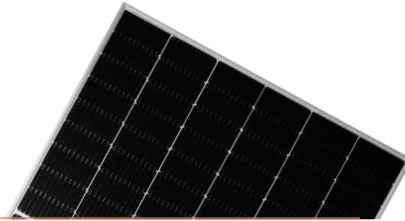
Ultra S series

Redefinition of High Efficiency



Ultra V series

Higher Energy Density
More Reliable Technology



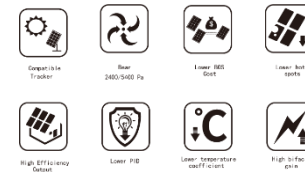
Ultra X series

Higher Power , Lighter Weight



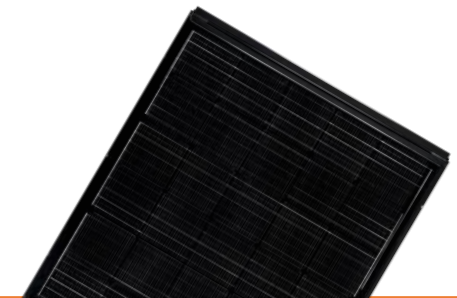
Ultra V Pro series

Higher Energy Density
More Reliable Technology



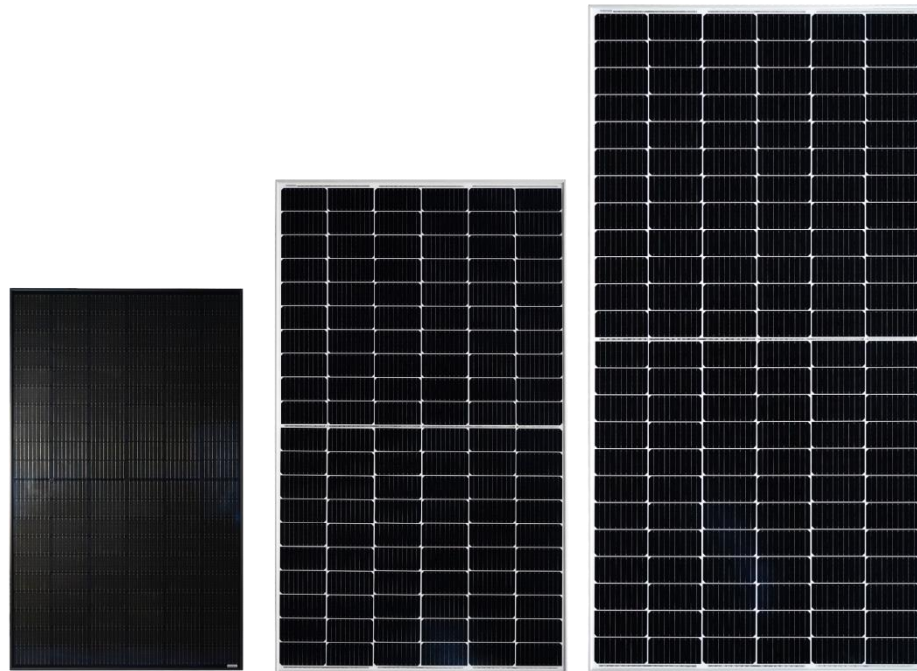
HiSpec series

FLEXIBLE For Every-Scene



Ultra S series

Redefinition of High Efficiency



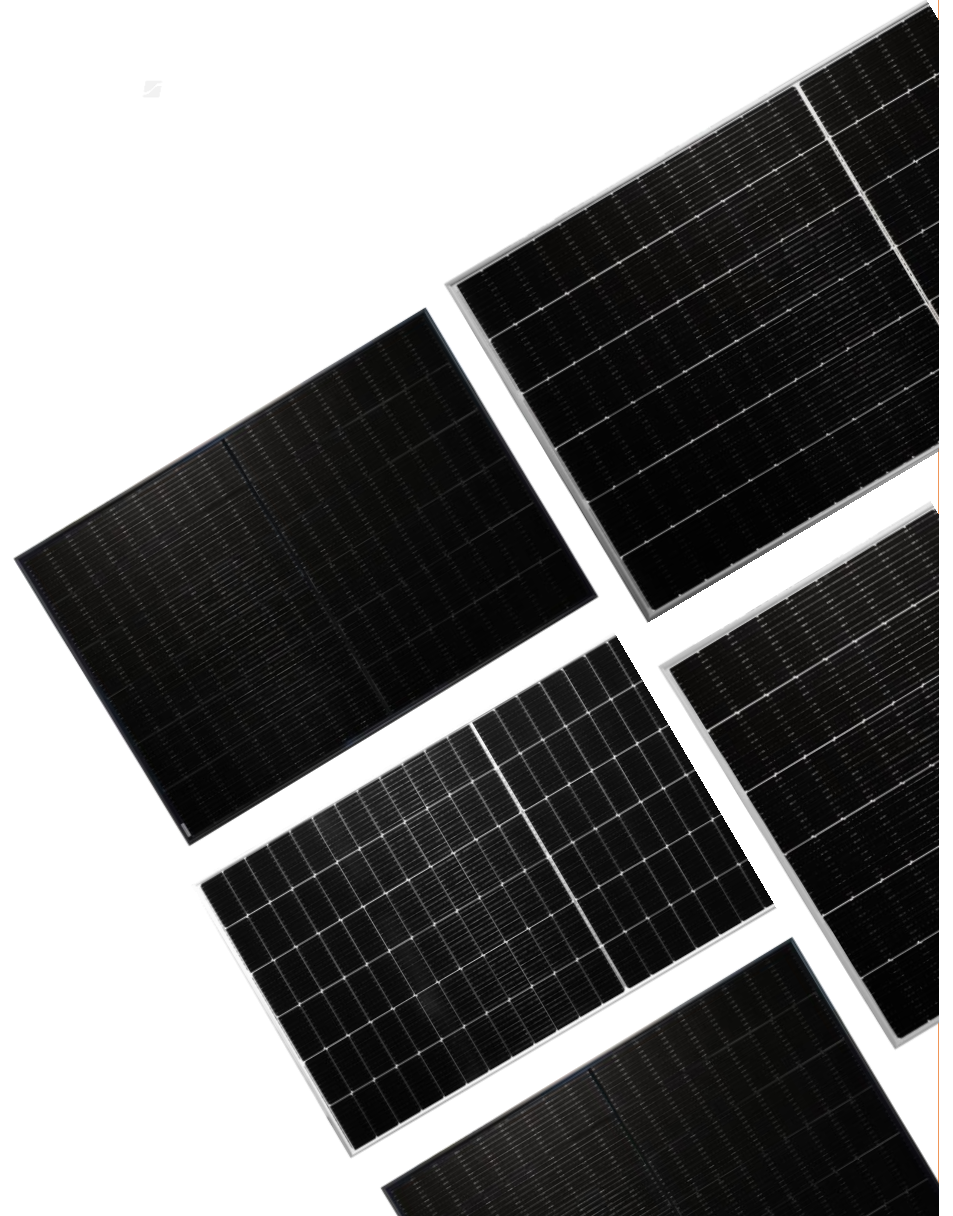
- Large format **166mm** silicon wafer with module efficiency up to **20.9%**.
- With multi-busbar technology, the current transverse propagation path decrease by **50%**.
- Improve power generation of bifacial products. The backside generates the electricity up to **25%**.
- Suntech Ultra S double-glass products provide **12-year** product warranty, **30-year** linear warranty.
- Decrease the system cost/watt during the power station building and bring extra profit for modules.

Ultra V series

Higher Energy Density
More Reliable Technology



- Large format **182mm** silicon wafer with module efficiency up to **21.3%**.
- Improve the energy density of the module with **high density package technology**.
- Lighter and thinner, more than **15%** weight reduction.
- With MBB and Half-Cell technology, the maximum power breaks through **550W+**.
- Lower cost, higher ROI.



Ultra V Pro series

Higher Energy Density
More Reliable Technology



Compatible Tracker



Bear 2400-5400 Pa



Lower BOS Cost



Lower hot spots



High Efficiency Output



Lower PID

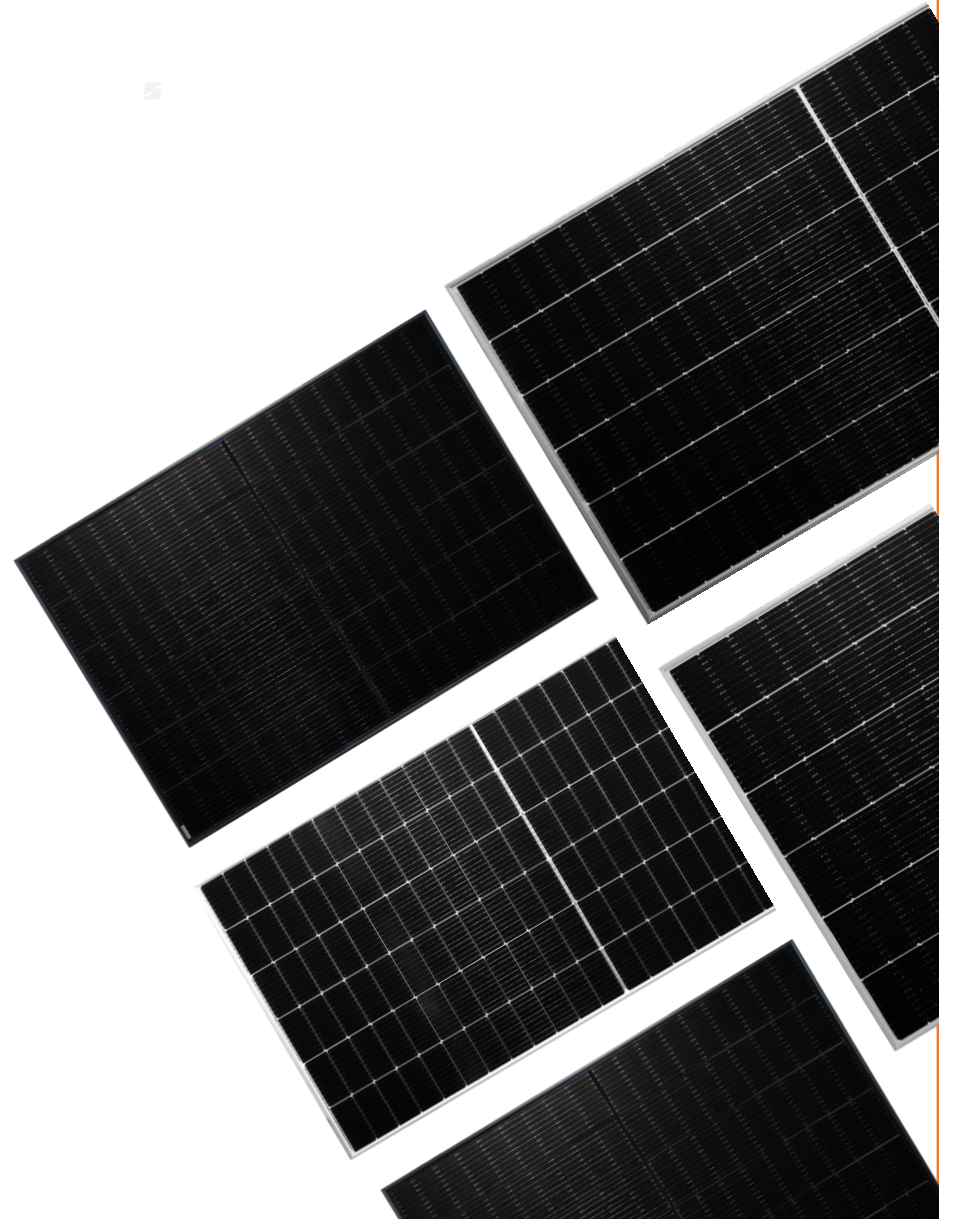


Lower temperature coefficient



High bifacial gain

- Large format **182mm**, cell efficiency up to **24%**.
- Using N-type cells, nearly **zero LID/LeTID** performance, PID significantly better than PERC modules
- Temperature coefficient of Pmax down to **-0.32%/°C**, LCOE down to 2% compared to the same type of PERC modules
- With MBB and Half-Cell technology, the maximum power breaks through **570W+**.
- 80%** bifacial rate, higher ROI.

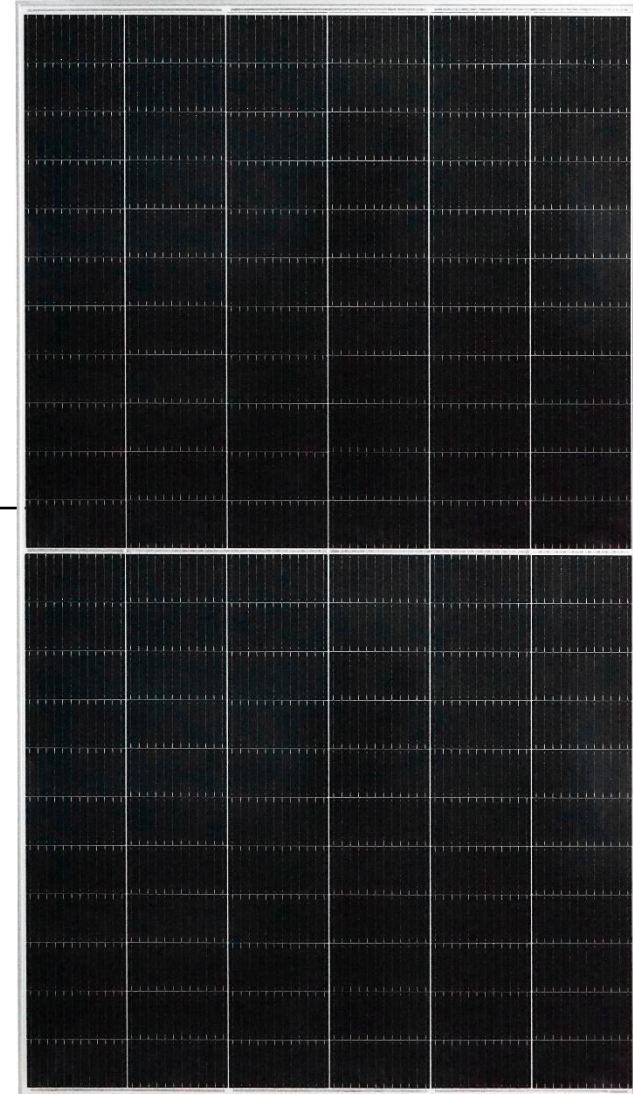
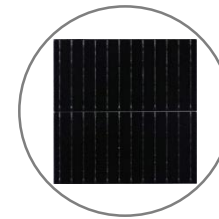


Ultra X series

Higher Power , Lighter Weight



- Large format **210mm** silicon wafers with the module efficiency up to **21.3%**.
- MBB technology + High-density packaging technology, the maximum power breaks through **670W**.
- More power generation with bifacial, gains on the back can reach up to **25%**.
- Lower cost, higher ROI.



HiSpec series

FLEXIBLE Fro Every - Scene



Light-weight





Extended load tests
3800Pa
5400Pa



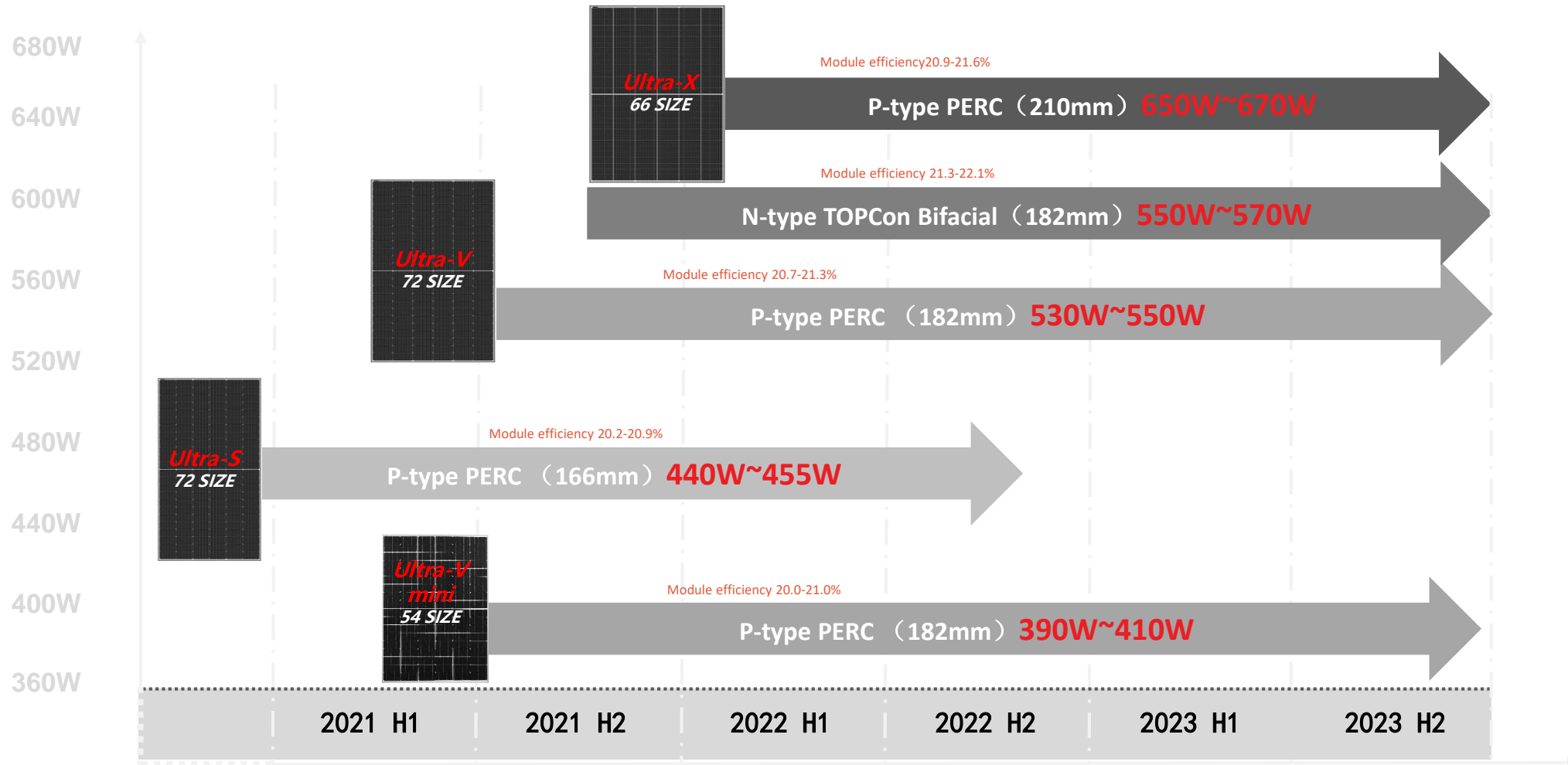
Lower BOS cost



Peak Performance

-  Suntech Lightweight module optimizes its design on materials and dimension based on conventional modules. The thickness of glass is only about 2mm and the overall weight of the modules is reduced by nearly 30% compared to conventional modules.
-  Suntech SMART DC module uses TS4 universal JBox platform from TIGO Energy. The brilliant TIGO Smart solution offers advanced Safety, Monitoring and Optimization functionality.

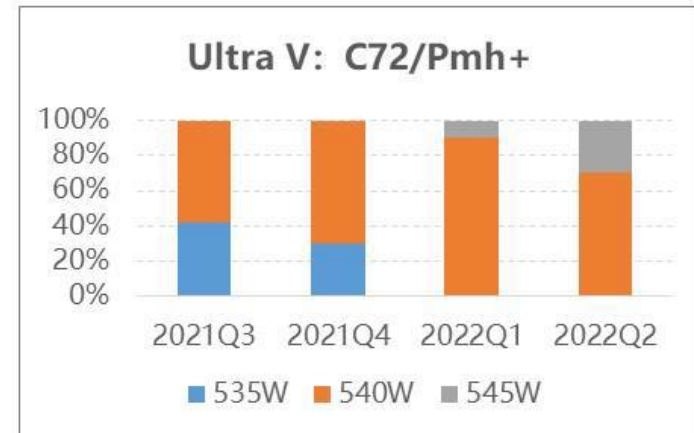
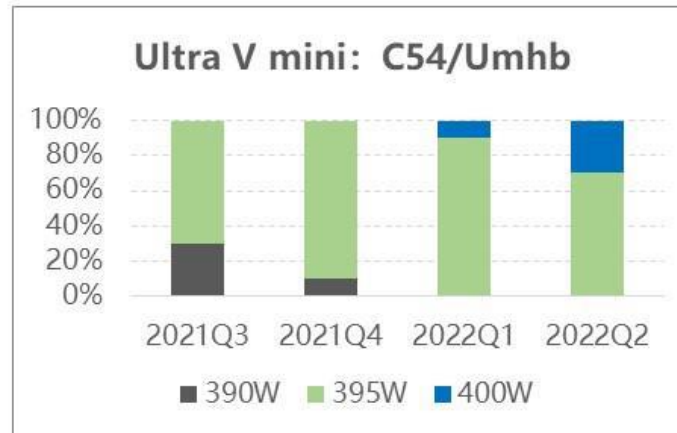
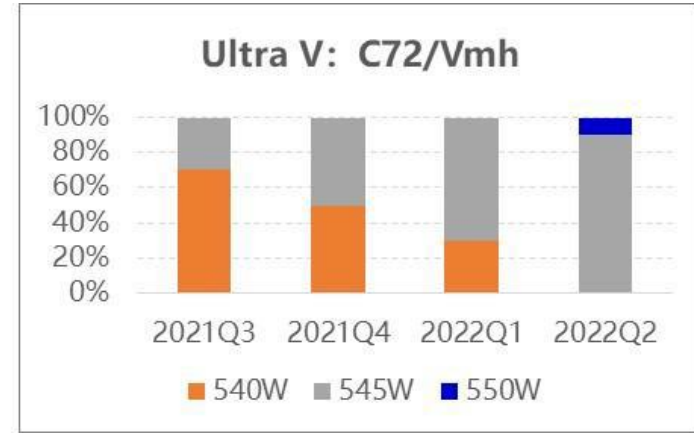
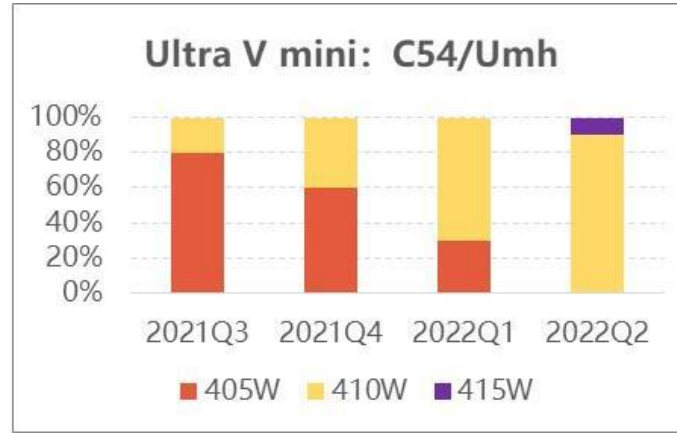
TECHNOLOGY ROADMAP



Stand the Test of Time



POWER OUTPUT DISTRIBUTION of PERC PRODUCT



GLOBAL PARTNERS



Duurkenakker Solar Power Plant



Project location: Midden-Groningen, the Netherlands
Project capacity: 64 MW
Completed time: 2020

Bejulo Solar Power Plant



Project location: Achern·Germany
Project capacity: 58.3 MW
Completed time: 2020

Markersbach Solar Power Plant



Project location: Markersbach , Saxony , Germany
Project capacity: 4.3 MW
Product type: STP 400 S -A72/Vnh
Completed time: 2020

Setta Solar Power Plant



Project location : Pernambuco, Brazil
Project capacity : 1.5 MW
Product type : STP 330 - 24/Vfw
Completed time : 2020

Robinvale Solar Farm



Project location: Robinvale, Victoria Australia
Project capacity: 7.5 MW
Completed time: 2020

York Solar Power Plant

The UK's largest and most technically advanced bifacial PV modules project

Project location: York·UK
Project capacity: 34.7 MW
Product type: STP380s-72/Pfh
Completed time: 2019



Iberdrola Solar Power Plant

Europe's largest PV project

Project location: Extremadura · Spain
Project capacity: 500 MW (Suntech supplied 100 MW)
Product type: STP 330-24/Vfw
Completed time: 2019

Baggersee Maiwald Floating Solar Power Plant



Germany' s largest floating photovoltaic plant



Project location: Achern-Germany
Project capacity: 750 kW
Product type: STP325-24/Vfw
Completed time: 2019

Pavagada Solar Power Plant

The largest established half-cell solar power station in the world

Project location: Tumakuru, Karnataka, India
Project capacity: 210 MW
Product type: STP335-24/Vfh
Completed time: 2019

Agadyr Solar Power Plant



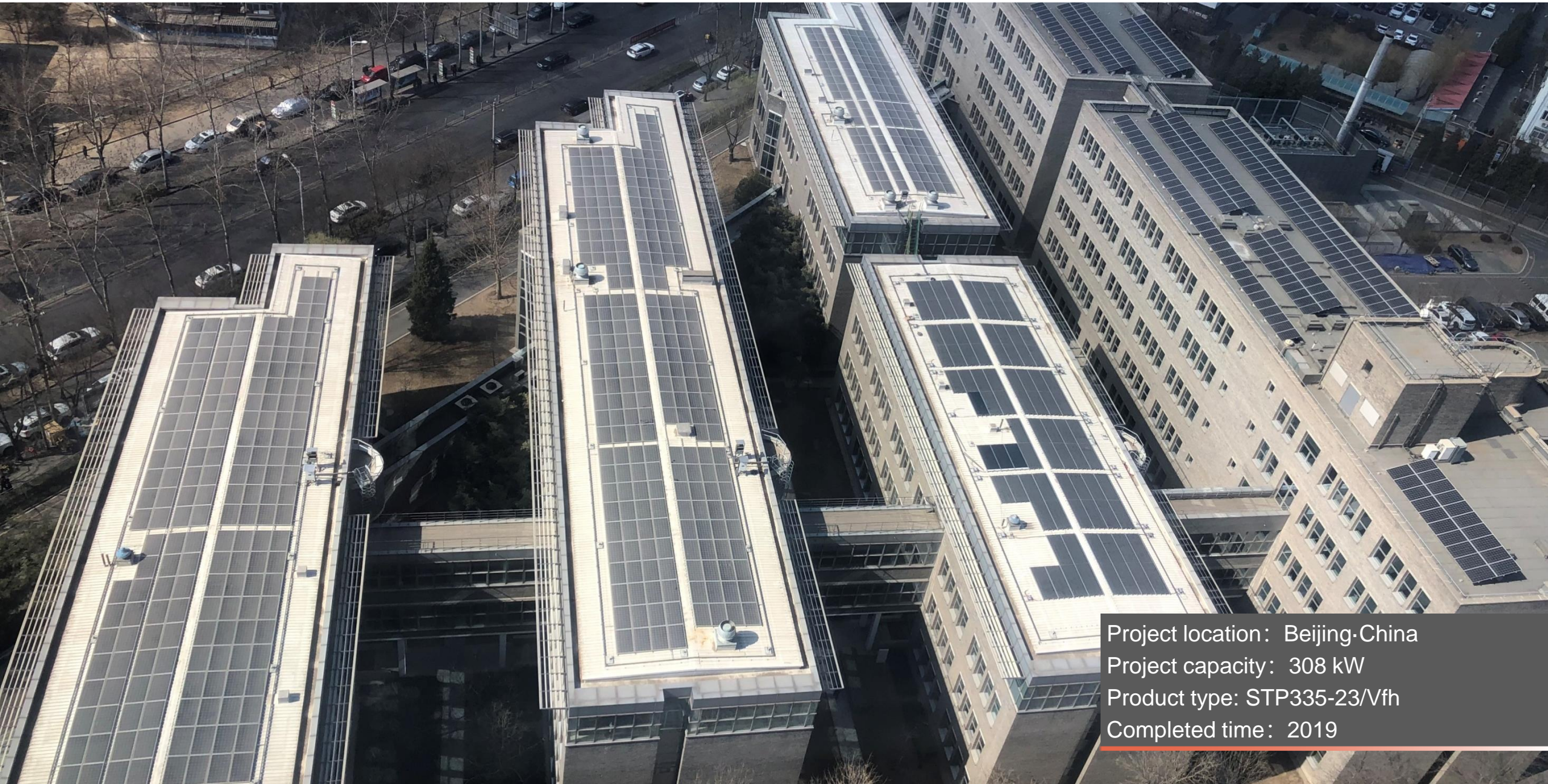
Project location: Karaganda-Kazakhstan
Project capacity: 50 MW
Product type: STP330-24/Vfj+ (DG)
Completed time: 2019

Shell Moerdijk Solar Power Plant



Project location: Rotterdam-Netherlands
Project capacity: 27 MW
Product type: STP350S-24/Vfh
Completed time: 2019

SIEMENS Asia-pacific Headquarter's Rooftop Project



Project location : Beijing·China
Project capacity : 308 kW
Product type : STP335-23/V/fh
Completed time : 2019

Enlight Kramim Solar Power Plant



Project location: Israel
Project capacity: 18 MW
Product type: STP330-24/Vfw
Completed time: 2018

Zavodskaya Solar Power Plant



Project location: Astrakhan·Russia
Project capacity : 15 MW
Completed time: 2017

Adani Solar Power Plant



Project location: Tamil Nadu·India
Project capacity: 222.5 MW
Product type: STP320-24/Vem
Completed time: 2016

Sydney Opera House Rooftop Project



Project location : Sydney·Australia
Project capacity : 384 kW
Completed time : 2012

Olympic Bird Nest Stadium BIPV Project



Project location : Beijing·China
Project capacity : 130 kW
Product type : STP260S-24/Vb
Completed time : 2008

San Francisco International Airport Rooftop Project



Project location: San Francisco-USA
Project capacity: 450 kW
Completed time: 2007

Finow Solar Power Plant



Project location: Berlin-Germany
Project capacity: 84 MW
Completed time: 2011

Suntech Double-glass Module Used

Masdar Solar Power Plant



Project location: Abu Dhabi- UAE
Project capacity: 10 MW
Suntech supply 5MWp
Completed time: 2009

Desert & Dust Area

Gunkul Solar Power Plant



Project location: Thailand
Project capacity: 63 MW
Completed time: 2015

Hot and Humid Area

Zehei village Poverty Alleviation Project



Project location: Zehei-China
Project capacity: 363 kW
Product type: STP275-20/Wfw
Completed time: 2018

Mountainous Area

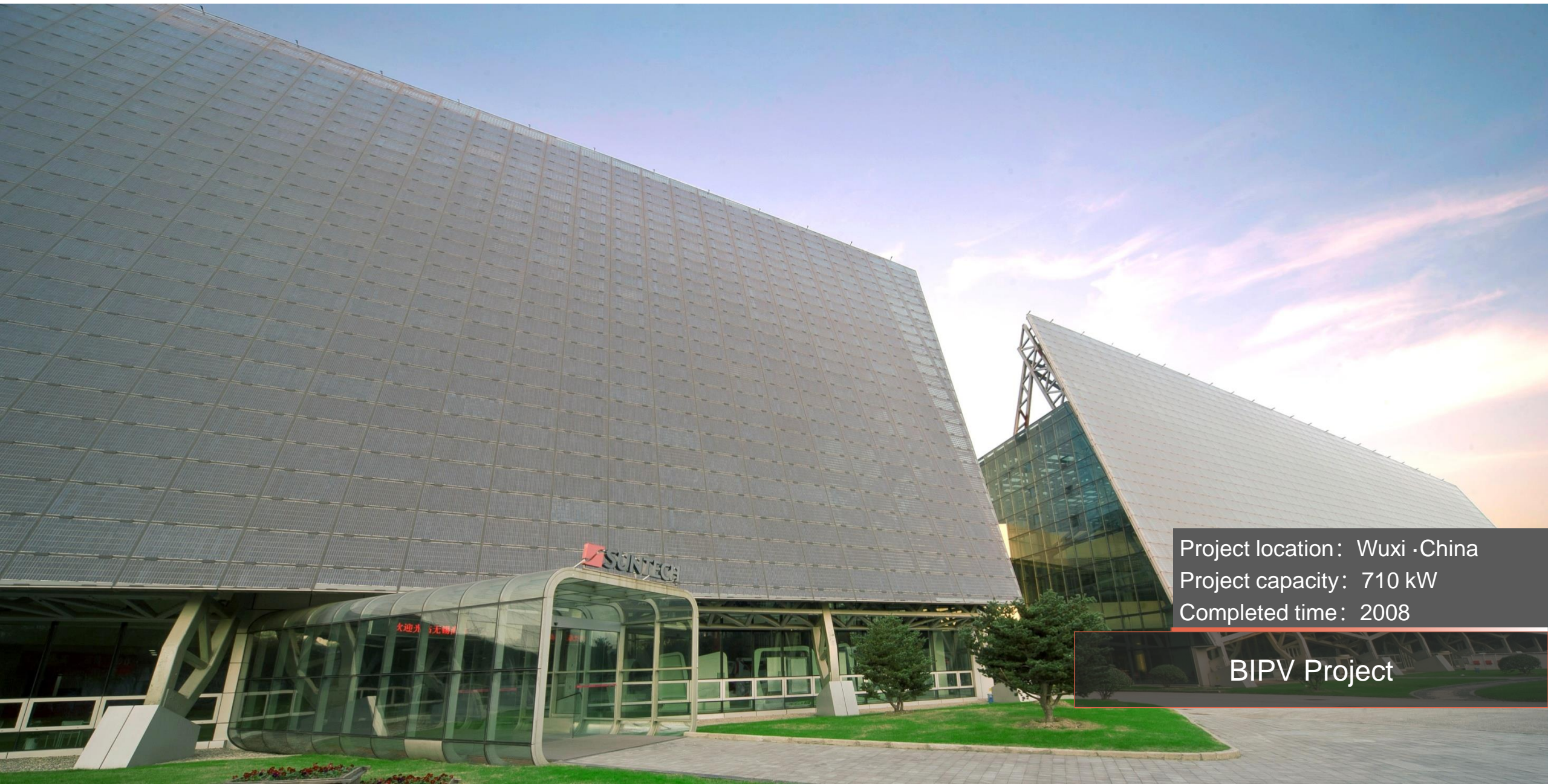
Kowa Elementary School BIPV Project



Project location: Tokyo-Japan
Project capacity: 10 kW
Completed time: 2004

BIPV Project

Suntech Headquarter BIPV Project



Project location: Wuxi · China
Project capacity: 710 kW
Completed time: 2008

BIPV Project

Thank You