

Talesun Solar Company Presentation



01

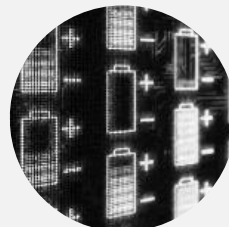
Briefing Intro.

ABOUT ZHONGLI TALESUN

ZHONGLI GROUP Six Segments



Photovoltaic



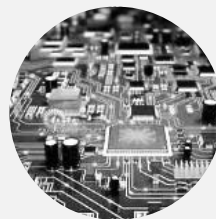
Energy Storage



Rack System



Optical Fiber



Auto Parts



Real Estate

Founded in 1988

32

Y E A R

TALESUN SOLAR

Four Segments



**Solar
Cell**



**Solar
Module**



**Project
Development**



**EPC
Service**

Established in

2010

Registered Capital

850 Million USD

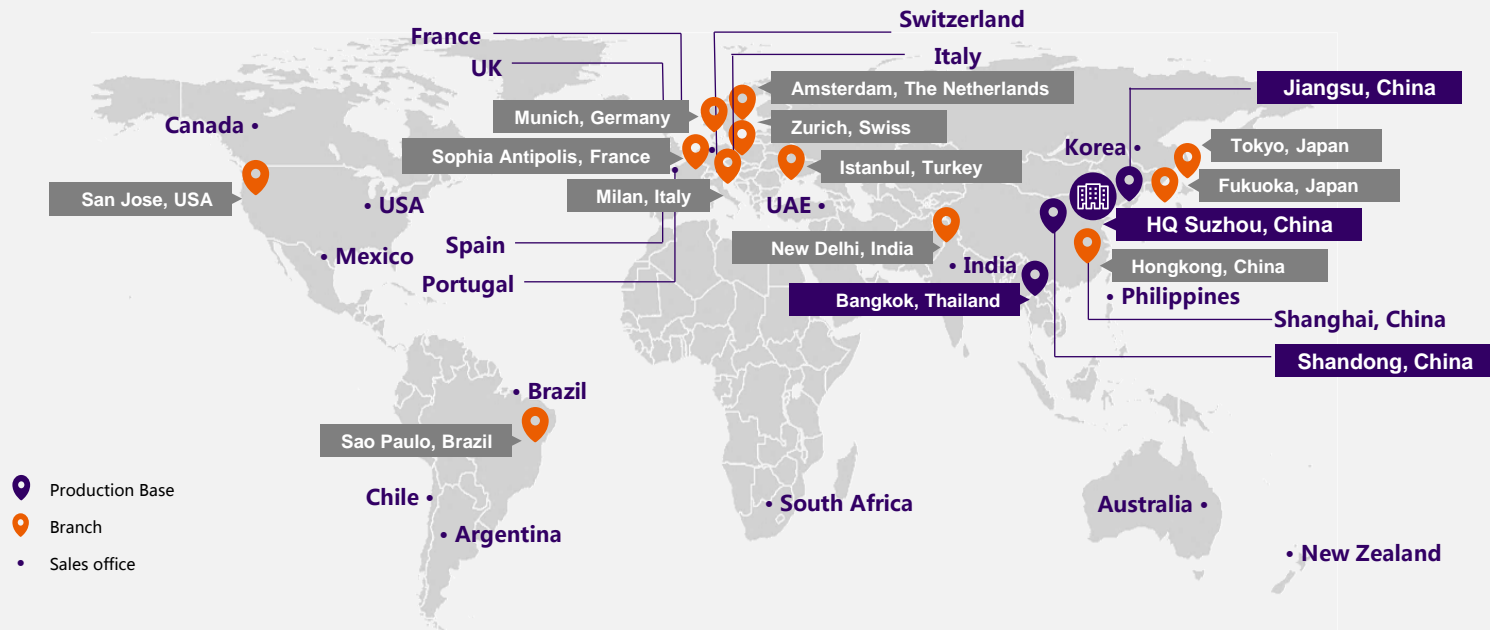
Global Renewable Enterprise

TOP 50

Key Milestones



Global Footprint, Globalized Operation



Module
20+ GW



Employee
8000+



Grid-tied
7.5 GW



Client
50+ Countries

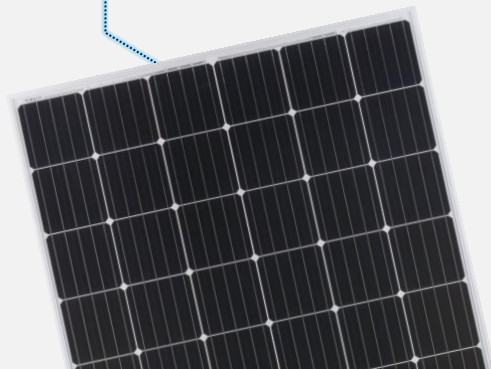
TALESUN PRODUCTION

Flexible Module Production Capacity

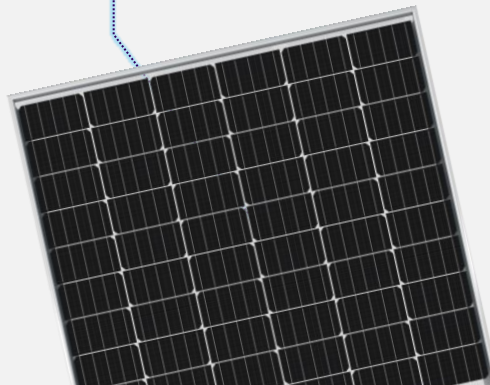
13 GW module

12 GW cell

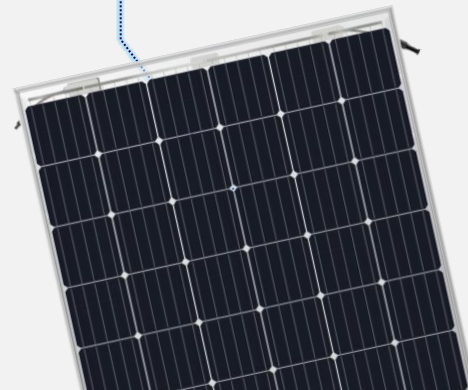
PERC Mono
10 GW



Half-cut bifacial
7 GW



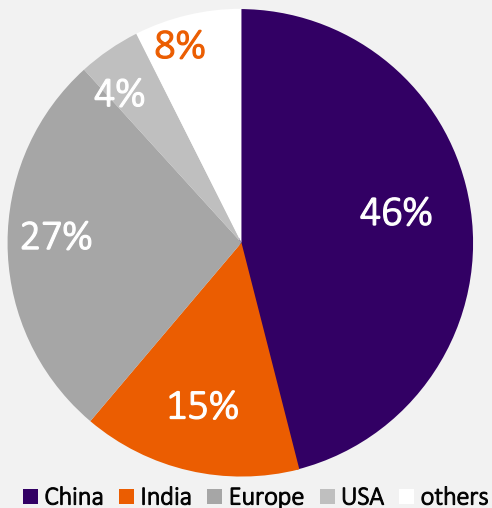
Flexible Capacity
2 GW



TALESUN GLOBAL MARKET

Supply of Modules Tracking

Global Shipment Profile in 2019



Talesun has been a top-10 supplier to the largest utility market globally in recent years



Europe, India & the US remain strong markets for Talesun modules



Growth is now also coming from Southeast Asia, MEA, and LATAM countries

02

Diversified Products

PV WHOLE INDUSTRY CHAIN

TALESUN INNOVATIVE PRODUCT For Diversified Needs

Light
Weight



**Feather
Series**

MONO
PERC



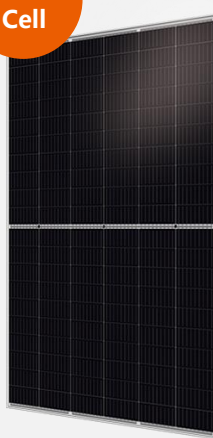
**Hipro
Series**

Half-cut
Cell



**Bistar
Series**

Bifacial
Cell



**Bipro
Series**

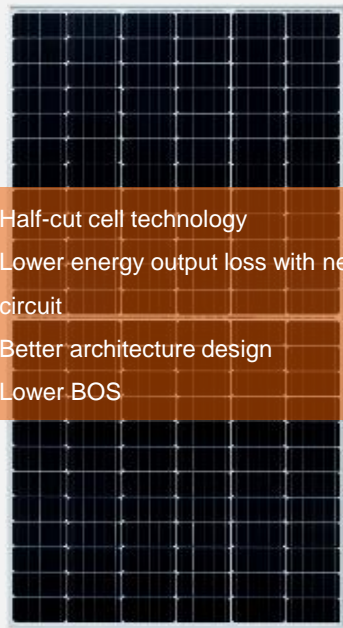
POLY



**Pipro
Series**

Bistar

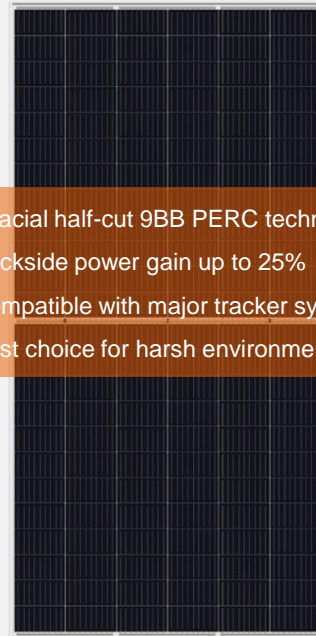
(9BB/5BB half-cut)



- Half-cut cell technology
- Lower energy output loss with new circuit
- Better architecture design
- Lower BOS

Bipro

(9BB bifacial half-cut)



- Bifacial half-cut 9BB PERC technology
- Backside power gain up to 25%
- Compatible with major tracker systems
- Best choice for harsh environments

Hipro



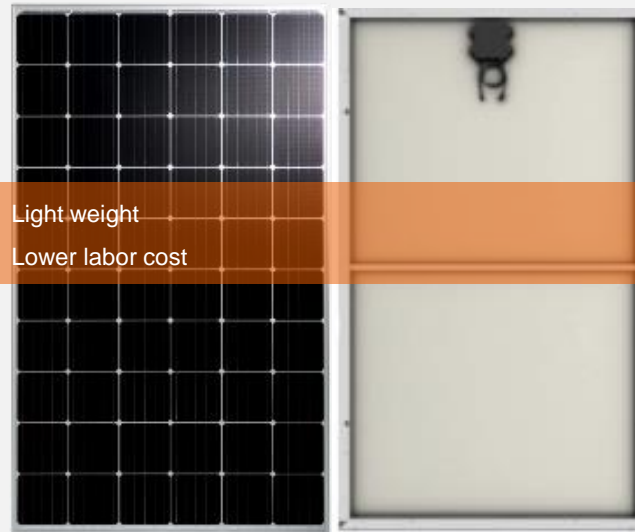
- Higher power output
- Lower BOS cost
- Improve low irradiance efficiency

Pipro



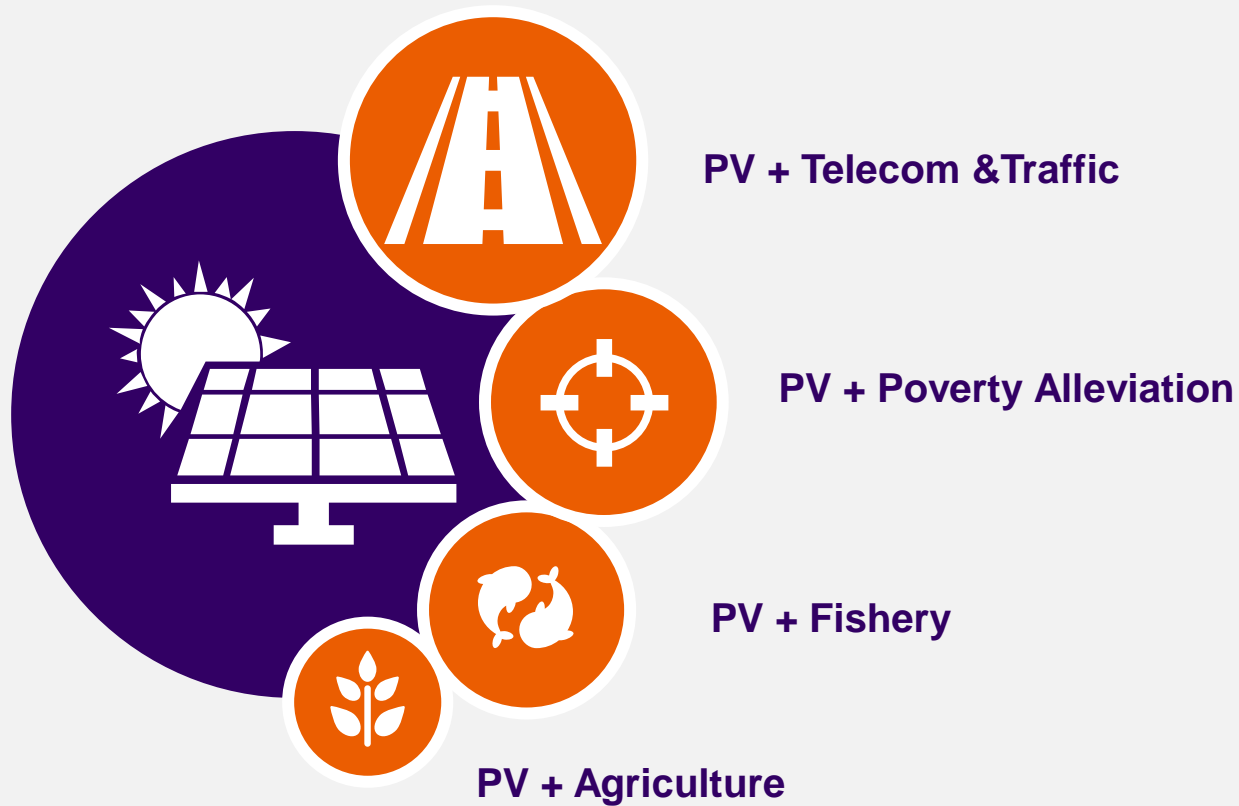
- Superb in low light Power
- Suitable for utility

Feather

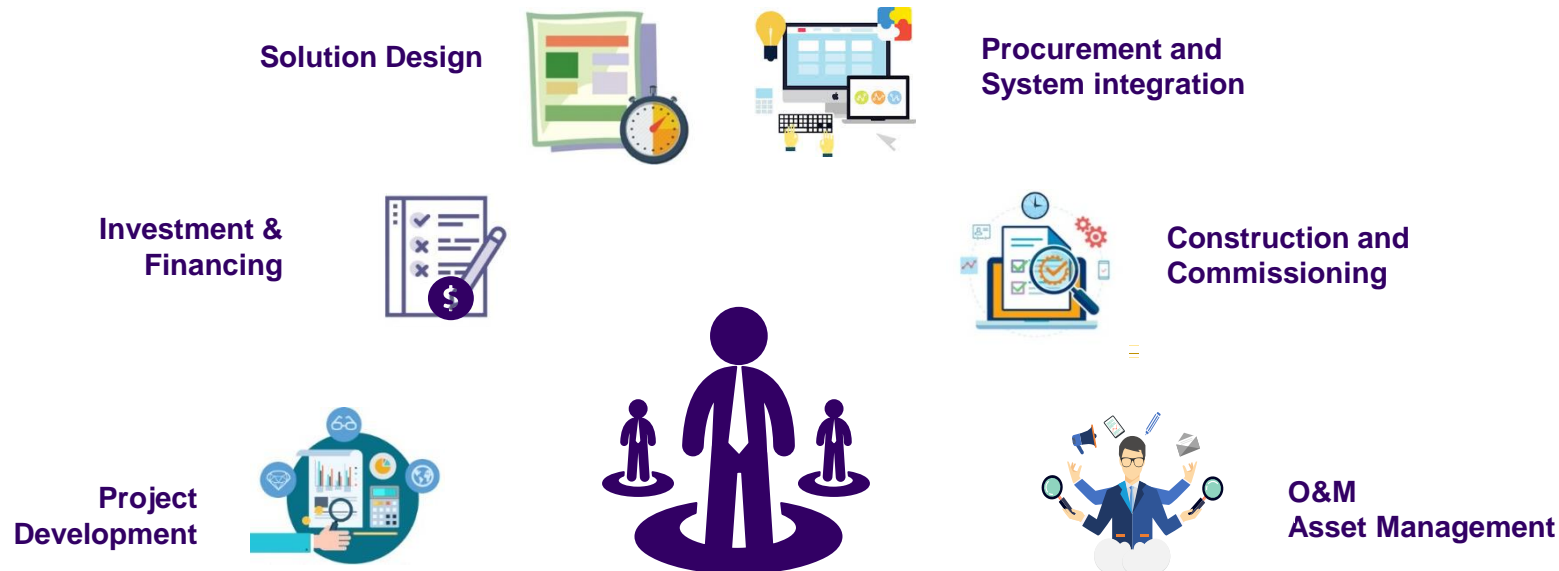


- Light weight
- Lower labor cost

PV+ Solution



Global PV Power Station Total Solution



315 MW Argentina Utility Projects

--- One of the Largest PV Utility in South America



Cauchari, Argentina

Project size: 315 MW

Completed: 2019

Type: Utility scale

99.5 MW Belgium Utility Projects

--- One of the Largest PV Utility in Western Europe



Limburg, Belgium

Project size: 99.5 MW

Completed: 2019

Type: Utility scale

USA Riverside County Project



Riverside County, California, USA

Project size: 97 MW

Completed: 2016

Type: Utility scale

China Qinghai Project



Gonghe, Qinghai, China

Project size: 100 MW

Completed: 2017

Type: Utility scale

Talesun Thailand Factory Rooftop Project



Thai-China Industrial Park, Rayong, Thailand

Project size: 3.8 MW

Completed: 2016

Type: Commercial Rooftop
Projects

PV + Agriculture Project

Changshu, China 9.8 MW



03

Talesun Core Advantages

INDUSTRIAL LEADING PLAYER

LONG ENDURANCE & SAFER INSURANCE SERVICES

Product Warranty & Multi-reinsurances

PICC

Munich RE



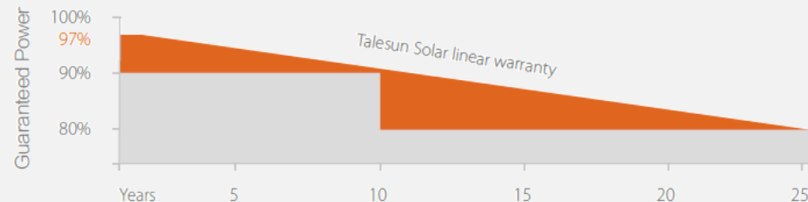
25 Years

**LINEAR PERFORMANCE
WARRANTY**

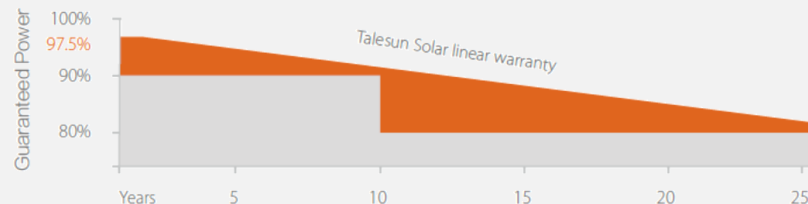
12 Years

**WORKMANSHIP
WARRANTY**

Monocrystalline solar PV module



Polycrystalline solar PV module



R&D INVESTMENTS

5000m² R&D Lab & 2000m² Testing Lab

R&D investment



\$300M

(by the end of 2019)

R&D Investment

Average 2-3% of Talesun total revenue is invested in R&D

R&D Employees



350+

Technical Team

More than 350 technical staff working on cell, and module development

Patents Applied



340+

(160+ issued)

Patents

Has developed 340 patents on cell and module technology

INDUSTRY STANDARD

Certification and Leading Equipment



International Certificates

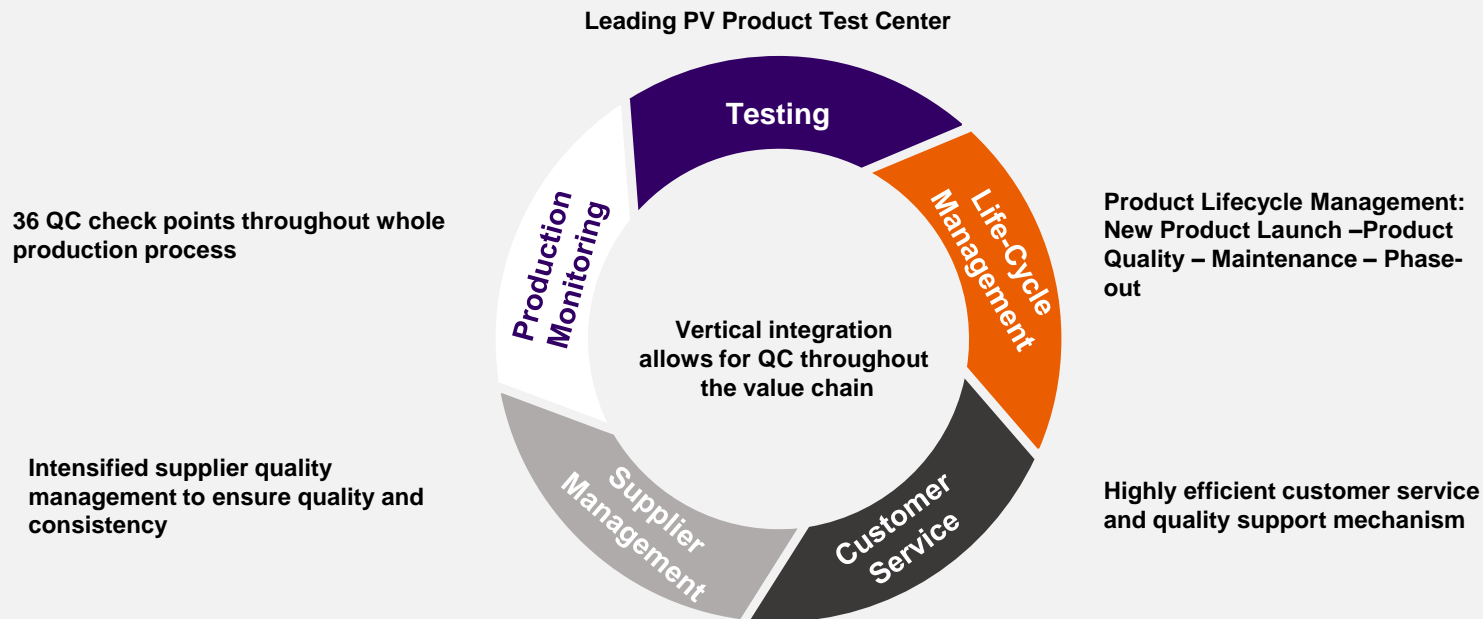


Leading Equipment Manufacturers



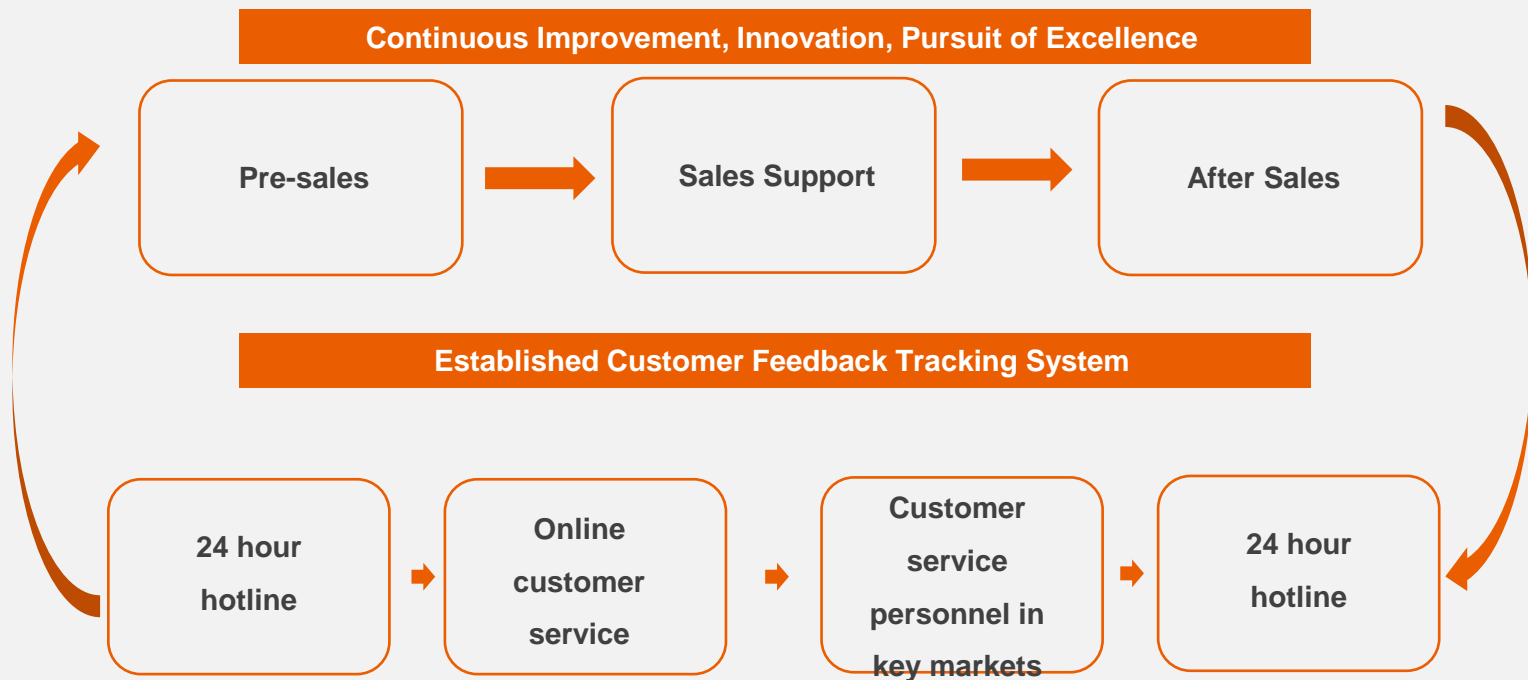
QUALITY ASSURANCE

360° QC Throughout Product Lifecycle



CONTINUING CUSTOMER SERVICE

Closed-loop and Trackable Service



TALESUN SHIPMENT

TOP 10 Module Shipment Supplier in 2018 and 2019

2019 global module shipment ranking

Ranking	Company
1	Jinko
2	JA Solar
3	Trina
4	Longi
5	Canadian Solar
6	Hanwha Q Cells
7	Risen
8	Suntech
9	Astronergy
10	(PV) InfoLink Talesun

Source: PV InfoLink Database

*The ranking is based on PV InfoLink database, unit: 100 MW

*The ranking only includes crystalline silicon module; thin-film modules are excluded.

*PV InfoLink seeks to present comprehensive information. If there's any difference with the official figures, the official figures will prevail.

BANKABILITY PV SUPPLIER LIST BY BNEF

Tier 1 Module Manufacturer TOP 10 Production Capacity

Bloomberg
NEW ENERGY FINANCE

2016 Q 1 ~ Q 4

⋮

2017 Q 1 ~ Q 4

⋮

2018 Q 1 ~ Q 4

⋮

2019 Q 1 ~ Q 4

⋮

2020 Q 1 ~ Q 4

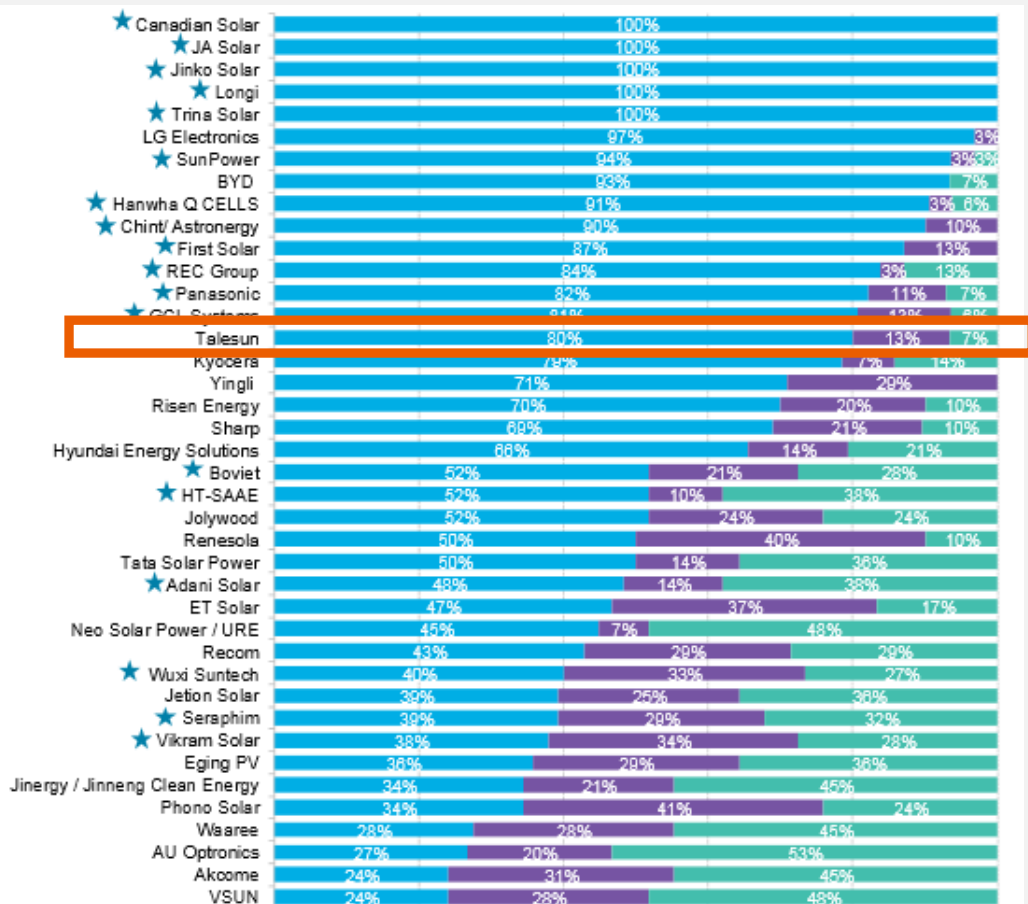
⋮

2021 Q 1

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/ Maxeon*	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

Source: BNEF PV module maker tier 1 list, Q1 2021

BANKABILITY SURVEY BY Bloomberg



BNEF's PV module bankability survey results 2020
TALESUN Ranking Top15th

Source: BNEF PV Module & Inverter Bankability 2020

TALESUN BANKABILITY

Recognized by Most of Banks Globally

ASIA



EUROPE



AMERICAS



GLOBAL PARTNERS

Trusted by Industrial Strong PV Players





Projects Worldwide

TALESUN REFERENCES

Overseas Utility Projects

TALESUN
MAKE IT HAPPEN.



Overseas Utility Projects

TALESUN
MAKE IT HAPPEN.



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TALESUN
MAKE IT HAPPEN.



Overseas Utility Projects

TALESUN
MAKE IT HAPPEN.



Bezers, France 12 MW



Saparevo Kyustendil, Bulgaria 5.5 MW



Denmark 17.25 MW



Saparevo, Bulgaria 5.5 MW



Hannahs Mill, USA 1 MW

Overseas Utility Projects

TALESUN
MAKE IT HAPPEN.



Domestic Utility Projects

TALESUN
MAKE IT HAPPEN.



Jiayuguan, Gansu 100 MW



Yili, Xinjiang 20 MW



Jinchang, Gansu 100 MW



Yumen, Gansu 30 MW

Domestic Utility Projects

TALESUN
MAKE IT HAPPEN.



Overseas Industrial and Commercial Projects

TALESUN
MAKE IT HAPPEN.



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Overseas Industrial and Commercial Projects

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Thank you