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TALESUN



01 ABOUT ZHONGLI TALESUN

Zhongli Group 30 Years of Great Achievements

1988

Founded in

4 billion

Total asset of 4 billion U. S. dollars

18

18 first-tier subsidiaries

8,000+

8000+ employees
around the world

7 segments

Cable & polymer materials, Optical fiber, Auto parts,
PV, Real estate, ESS, Environmental protection

IPO

Public listed on stock
exchange in 2009

Talesun - A New Energy Industry Leader

Talesun Solar, a wholly owned subsidiary of Zhongli Group, was founded in 2010. Through more than 10 years of innovation and development, it has become one of the global Top 10 photovoltaic manufacturers, Tier 1 module supplier in Bloomberg Ranking, one of China's largest photovoltaic power station developers, and a first-class leading enterprise among China's photovoltaic manufacturers. Our downstream business includes solar photovoltaic project development, design, EPC construction, operation & maintenance and one-stop system integration solutions for customers. In 2015, the Company innovated and launched "Intelligent Photovoltaic+ Sci-tech Agriculture and PV Farms in Poor Villages", thus becoming a leader in global solar power industry. Through constantly improving our conversion efficiencies and the quality of PV cells and modules, and optimizing project solution design, Talesun continues to push the decrease of solar energy cost, and makes contributions to the development of global clean and environment-friendly energy.



3

Factories



45 +

Branches and Offices



50 +

Shipped to Countries



20 + GW

Accumulative Shipment



Changshu, China



9.8 MW
completion in 2014



The plant generates
13 millions kWh annually and
can supply 30% of the buildings
daily power consumption



Talesun Solar Green Energy HQ Buildings

02 ENTERPRISE STRENGTH

The strategic direction of professionalism, efficiency and globalization has achieved the status of "Talesun".
With its unique foresight and persistence, "Talesun" can always be a beacon leading in the photovoltaic field.

Being Professional, Being Excellent



TIER 1

Module Supplier in
Bloomberg Ranking



TOP 10

Module Shipment
worldwide in 2019



TOP 10

Production Capacity Globally



TOP 50

Global New Energy Enterprise



TOP 5

PV + Agriculture Project
Provider in China

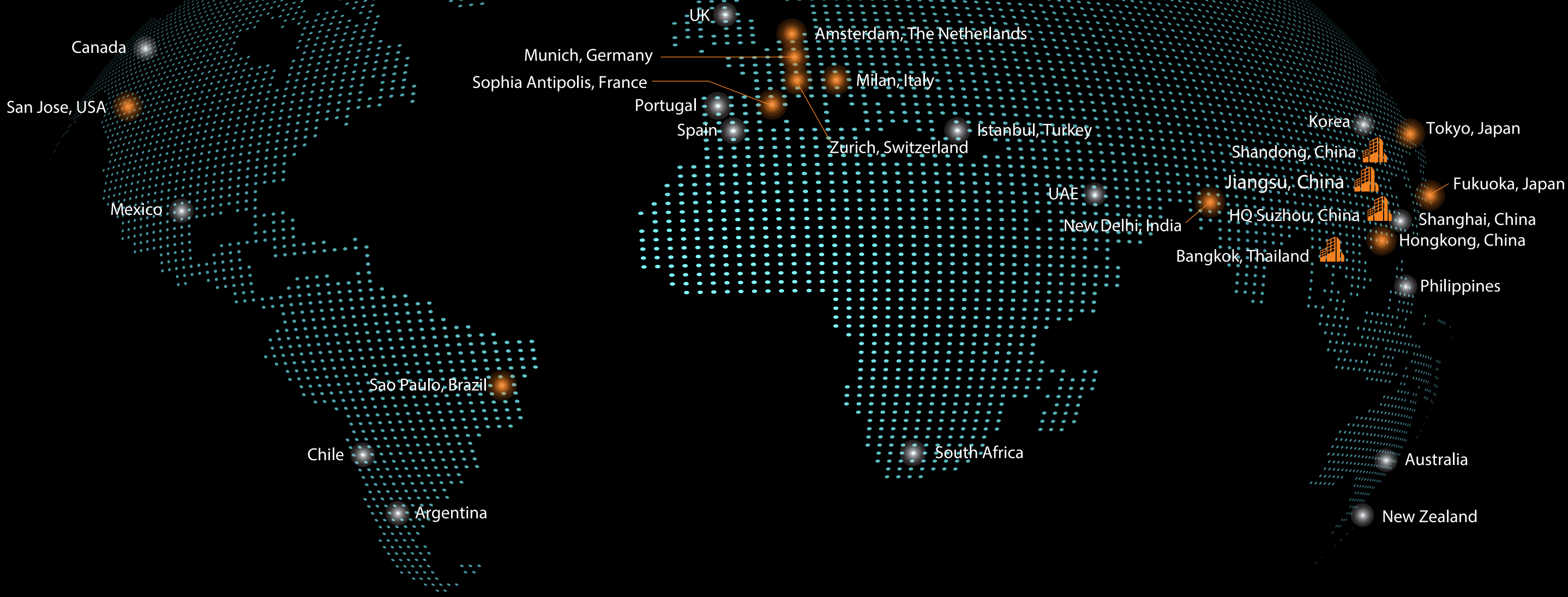


TOP 10

PV Project Development and
EPC Company in China

03 GLOBAL FOOTPRINT & GLOBALIZED OPERATION

-  Production Base
-  Branch
-  Sales Office



04 PRODUCTION CAPACITY

China Manufacturing Facilities

TALESUN SOLAR (China)
No. 1 Talesun Road, Shajiabang, Changkun Industrial Park, Changshu, Jiangsu Province, China

Thailand Manufacturing Facilities

TALESUN SOLAR (Thailand)
7 / 473 Moo.6 Mabyangporn, Pluakdaeng, Rayong Industrial Park, Thailand

10.7 GW

Annual production capacity
of PV cells

11 GW

Annual production capacity
of PV modules

1.3 GW

Annual production capacity
of PV cells

2 GW

Annual production capacity
of PV modules

05 R&D AND CERTIFICATION

R&D Efforts

At Talesun Solar, we strive to deliver highly reliable quality products to our customers; We work closely with industrial test center and authoritative third party to make sure our products to meet industrial standards, or even exceed the standards.

R&D Investments

5000 m² R&D Lab & 2000 m² Testing Lab



\$ 300 M

R&D Investment
(by the end of 2018)

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



350 +

R&D Team Members

More than 350 technical
staffs working on cell
and module development



340 +

Patents Applied
(160 + issued)

Has developed
340 + patents on cell
and module technology

Reliable Laboratory

The laboratory has the TMP qualification of CNAS, TUV SUD, TUV Rheinland, CSA, CGC and other well-known testing institutions, covers an area of More than 2,000 square meters. It has undertaken more than 30 new product development & verification projects and a number of national major science & technology projects.

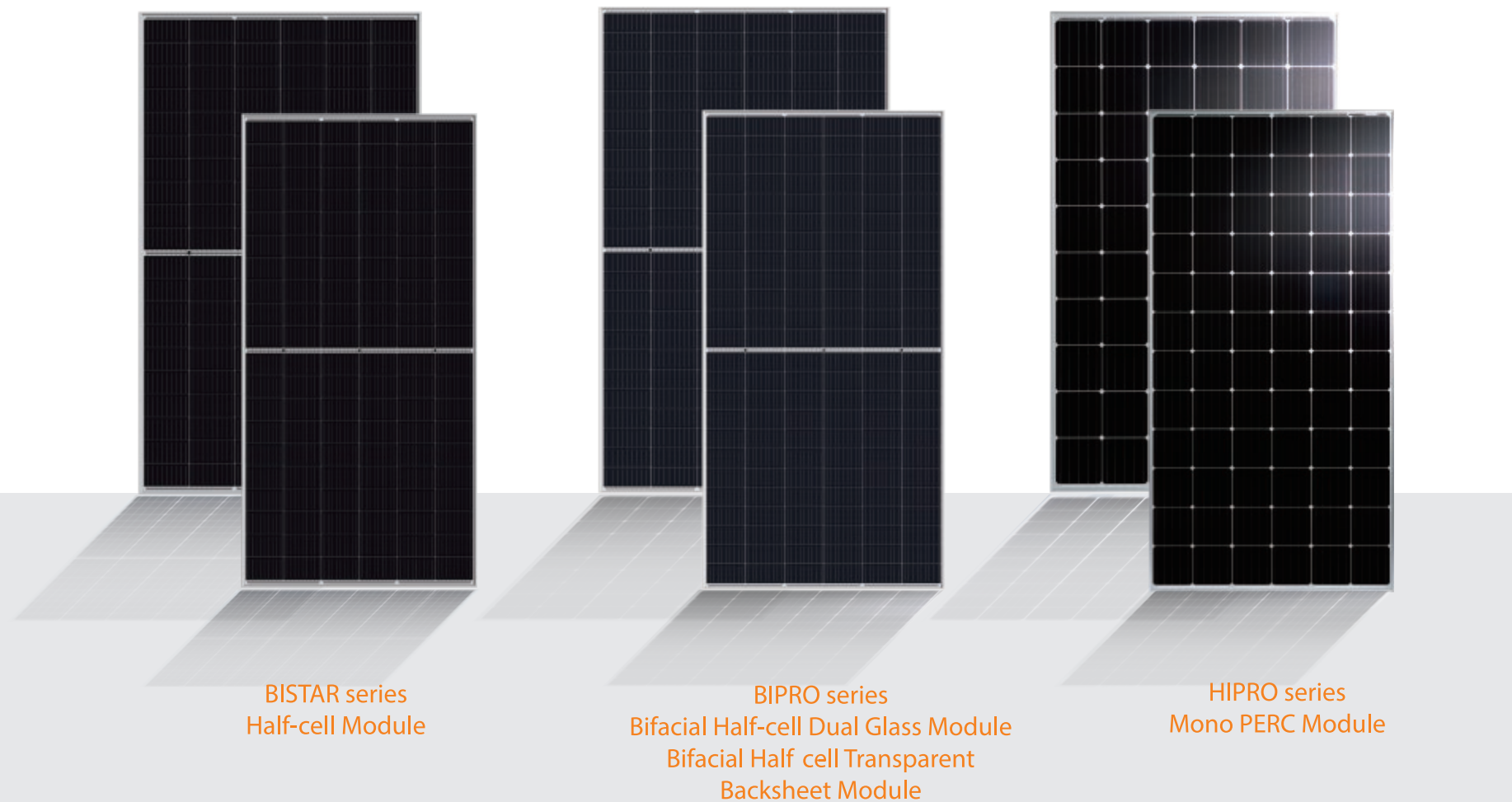
Module Certification

The company has six research and development platforms at provincial level, and its laboratories and test centers have achieved the certification of TUV NORD & SUD TMP, CSA, CNAS, VDE, TUV, UL and CEC, MCS, Chinese gold sun and other authorities at home and abroad.



06 TALESUN INNOVATED PRODUCT FOR DIVERSIFIED NEEDS

2020 High-efficiency Module



Reliability and Long Endurance



Better space utilization
High-efficiency PV cells reduce the LCOE



Strict quality control and high reliability
Internal testing far exceeds industry certification standards



Lower temperature coefficient
Increases the power generation



Best solution in harsh environments
Strong frame, with capability to withstand 2,400 Pa wind load and 5,400 Pa snow load



Excellent anti-PID performance
Passed the TUV anti-PID (Potential Induced Degradation) test (85°C / 85 % RH, 192 hours) with standards twice the industry average

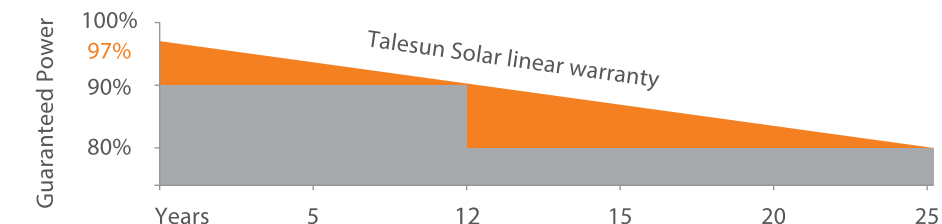


Significantly lower the risk of hot spot
Special circuit design with much lower hot spot temperature

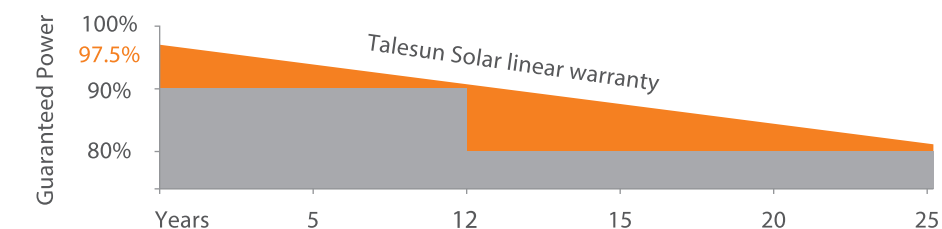
In Talesun Solar's Test Lab, we put our products through over 35 rigorous tests to ensure reliability and performance. This allows us to confidently stand behind our 25 years and 30 years power output warranty.



Monocrystalline solar PV module



Polycrystalline solar PV module



■ Talesun Solar linear warranty ■ The industry standard

07 CLOSE-LOOPED AND TRACKABLE SERVICE

14 · 15
www.alesun.com

For us, service means more than just a phone call. It also includes safer insurance services, faster logistics services and more professional technical services.



Safer insurance services

Cooperating with industry-leading insurance companies.



More professional technical services

Presenting you with an experienced team of engineers to provide support for your products or solutions.



Faster logistics services

As a professional partner, we can deliver products to your warehouse or directly to the site. We have established overseas warehouses in Thailand, India, the United States and Europe.

Munich RE 

PICC

08 PROJECT REFERENCE



01 Cauchari, Argentina, 315 MW

02 Groningen, Netherlands, 829 kW

03 Calabria, Italy, 24 MW

04 Lincolnshire, UK, 13 MW

08 PROJECT REFERENCE

01 Kherson, Ukraine, 9.2 MW

02 Kyustendil, Bulgaria, 5.5 MW

03 California, USA, 97 MW

04 Berlin, Germany, 20 MW





01



PROJECT REFERENCE



02



03



04

- 01 Limburg, Belgium, 99.5 MW
- 02 Ciudad Juarez, Mexico, 65 MW
- 03 Yamaga, Japan, 3.5 MW
- 04 Minamisoma, Japan, 825 kW

- 01 Gonghe, Qinghai, China, 30 MW
- 02 Jiayuguan, Gansu, China, 100 MW
- 03 Changshu, Jiangsu, China, 9.8 MW
- 04 Talesun Headquarters-Changshu, Jiangsu, China, 9.8 MW
- 05 Jinchang, Gansu, China, 100 MW



09 SOCIAL RESPONSIBILITY



In Talesun Solar, we are not only making significant efforts to reduce the waste and pollution created in our manufacture processes, but also returning the favors to our society all the time.



Generating **1.9 billion** kWh per year



Reducing emissions CO₂ **20 million** tons per year



Equivalent to planting nearly **10 million** trees per year



Over USD **15 million** donation to society