



PV Smart Energy Solution Provider



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Yingli Energy Development Co., Ltd.

A leading global provider of smart PV energy solutions

Leader in N-type TOPCon technology



5

National scientific research platforms



10⁺

More than 10 production and service bases



10th

The rankings of photovoltaic module shipment volume and winning bid quantity in 2023 - 2025



>150

Products distributed in more than 150 countries and regions around the world

Introduction

Yingli Solar, among the earliest Chinese enterprises that engage in the photovoltaic sector, In 2023 - 2025, its shipments and winning bids for PV modules ranked among the top ten in the industry, has now developed into a provider of smart photovoltaic energy solutions which focuses on R&D, intelligent manufacturing, and power plant development & operations. Yingli Solar has been engaged in the PV industry for many years, and its products have been sold in more than 150 countries and regions across the world.

Headquartered in Baoding, Hebei Province, Yingli Solar has set up smart manufacturing bases in Baoding, Tianjin, Hengshui, etc. and introduced domestically and internationally advanced instruments and equipment, making its entire production process intelligent, automated, precise and efficient.

Yingli Solar has always highly valued independent R&D and technological innovation. It boasts several national research platforms and PV technology laboratories and has long been an industry leader with regard to the number of patents. Yingli Solar is striving for massive exploitation and utilization of green solar energy through the state-of-the-art technologies, and is committed to achieving the carbon peaking and carbon neutrality goals through photovoltaic development.

Yingli Solar has been focusing on



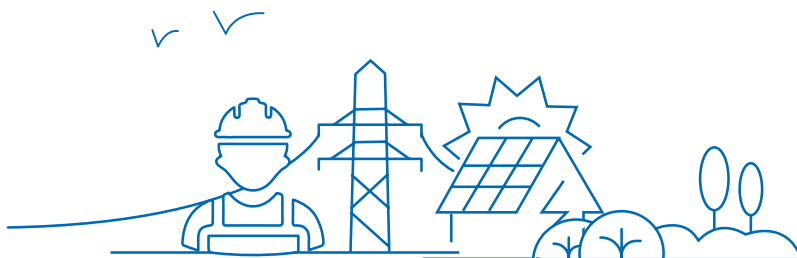
high-efficiency cells and modules



power plant operations



HIGHLIGHTS



1998

The pioneer in the PV industry

1998

Started its engagement in the PV industry and became one of the earliest PV companies in China

1999

Undertook a 3MW/year national demonstration project of polysilicon solar cells and application systems, marking a start of PV industrialization in China

2003

Produced China's first polysilicon ingot

2005

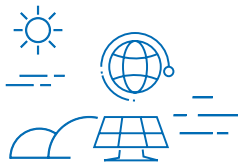
Participated in the Seminar on the Implementation of the Renewable Energy Law and organized activities to popularize the Law, to facilitate the development of the PV industry

2007

Went public on the New York Stock Exchange in the USA, thus entering the capital market officially

2009

- Became the first Chinese PV company to join the PV CYCLE
- Pioneered the development of N-type technology and named it "PANDA"
- Cumulative 1GW shipments



A global leader in the production and application of N-type products

2010

- Became the first PV company and the first Chinese company to sponsor the 2010 FIFA World Cup South Africa™
- Approved to be a "national key laboratory of PV materials and technologies"
- Achieved the production throughout the industrial chain from pulling, slicing, cell production to module production, as China's first N-type high-efficiency monocrystalline cell manufacturer

2011

Approved to be a "national key laboratory of PV energy technology"

2012

- PANDA modules secured the second place in TÜV Rheinland's global "PV module power test"
- Became the world's first PV company with TÜV Rheinland's carbon footprint certification

2013

The shipment volume of PV modules ranks first in the world

2014

- Continued to sponsor the 2014 FIFA World Cup Brazil™, making "Yingli Solar" shine on World Cup
- Listed among the top 3 in China brand awareness survey by TNS Emnid

2015

- Supported the Belt and Road strategy and facilitated the launch of the first China-EU PV train
- Awarded the title of "5-star Module of Rheinland Star"

2016

- Provided 50MW PANDA products to the demonstration project under the Top Runner Program in Datong, Shanxi, to build the world' largest bifacial power plant at that time and guide the large-scale application of bifacial products



A pacesetter for PV innovation through continuous devotion

- Played a leading role in developing the first clean production evaluation index system of the PV industry

2017

Take the lead in starting the research and development of N-type TOPCon technology at home

2018

- Approved to be a "national technical standard innovation base (PV)"
- Enabled its PANDA modules to be the industry's first product accredited by China's CGC, the USA's UL and German TÜV Rheinland

2020

Provided 117MW N-type PANDA products for the largest bifacial power plant in the Middle East

2021

- Worked together with Huawei and North China Electric Power University to set up the Huawei Baoding New Energy Power Joint Innovation Lab
- Entered a new stage of development



A global leader through strategic upgrade

2022

- Ranked among Bloomberg New Energy Finance's tier-1 PV module manufacturers
- Won the Overall High Achievement in Performance from RETC and became one of the world's top six

2023

- Won the Overall High Achievement in Performance from RETC and become the only PVEL through all the rigorous testing of the eight component manufacturers
- Won the EUPD Top Photovoltaic Brand Award, and through 22,000 customers to vote, won the Photovoltaic Consumer Choice Award

2024

- Yingli has successively received honors such as the "Global Best Performance" component manufacturer award from PVEL, the "Overall Best Performance Award" from RETC, and the "Top Brand PV" from EUPD
- Be listed among the "Global Top 500 New Energy Enterprises" and the "China Top 500 Energy Enterprises"

2025

Won the "Global New Energy ESG Top 100" award

2025

GLOBAL PRESENCE AND PROFESSIONAL SERVICES

Owing to its global integrated service network, Yingli Solar can provide customers with timely and accurate services in an all-round manner and strengthen cooperation with key customers. It has branches and offices in Europe, Oceania, North America, Latin America and Asia. Such local service teams and after-sales service centers around the world can respond quickly to customer needs within 48 hours.

4 intelligent manufacturing bases

Tianjin



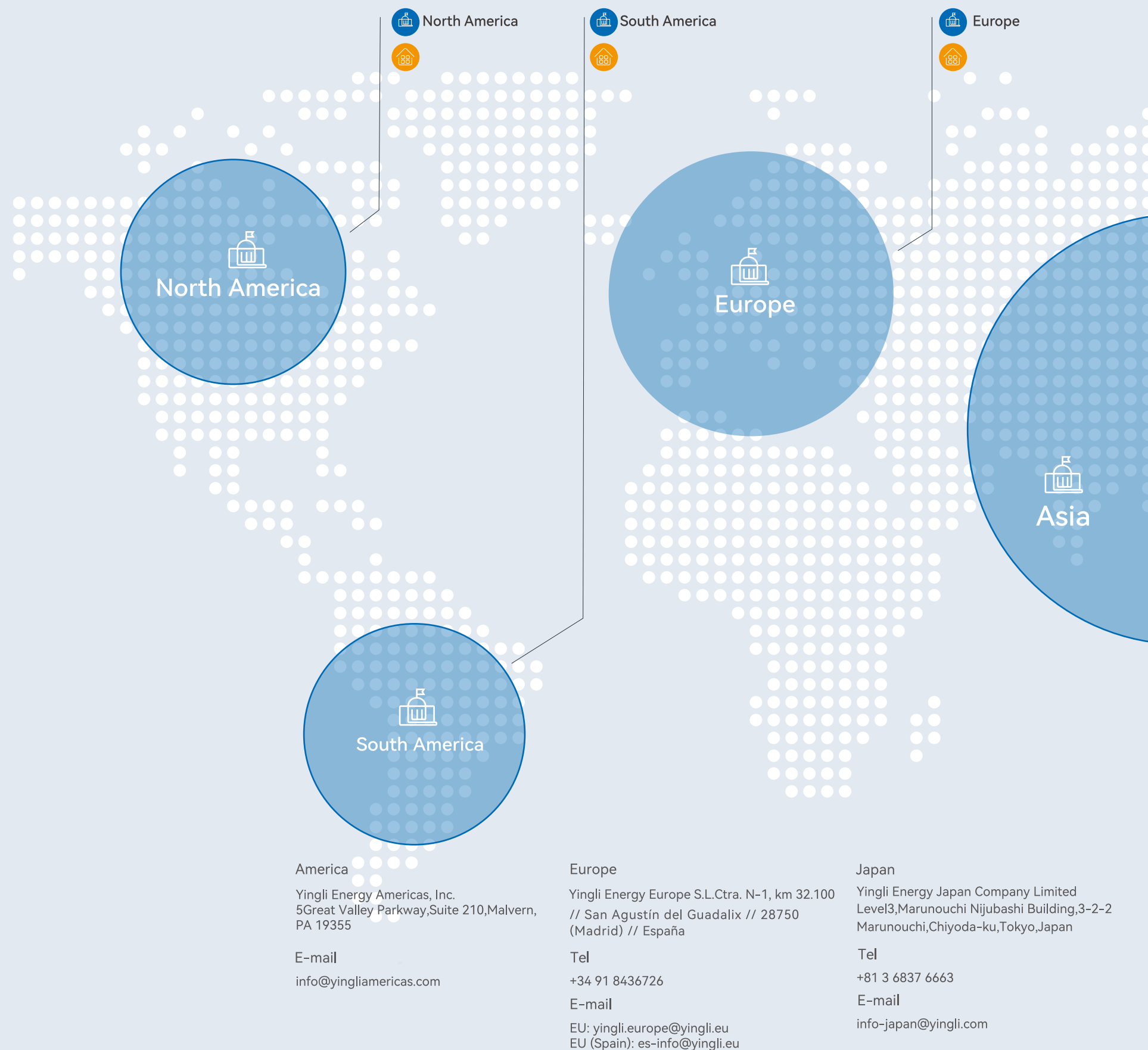
Lixian, Hebei



Hengshui, Hebei



Mancheng, Hebei





Yingli China
Headquarters



Oceania



Global Regional Center



Global Warehouse



Yingli China
Headquarters



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10+

More than 10 production and
service bases

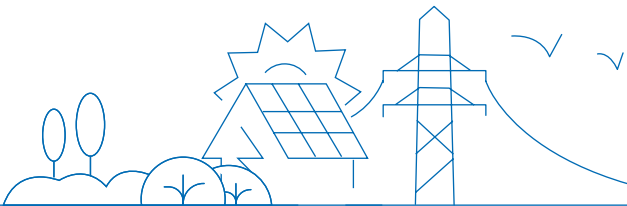
150+

Countries and regions covered

Innovative in
Science and
Technology

Relying on its national research platforms, academician workstation, and post-doctoral workstation, Yingli Solar has made continuous efforts in independent innovation to sharpen its core competitiveness.

Yingli Solar is named National Technical Standard Innovation Base (PV), which is the only of its kind at the national level in China's PV industry. As the leader, it has developed China's first bifacial PV power generation standard and the industry's first clean production evaluation index system, which play a crucial role in enhancing the voice and competitiveness of China's PV technology.



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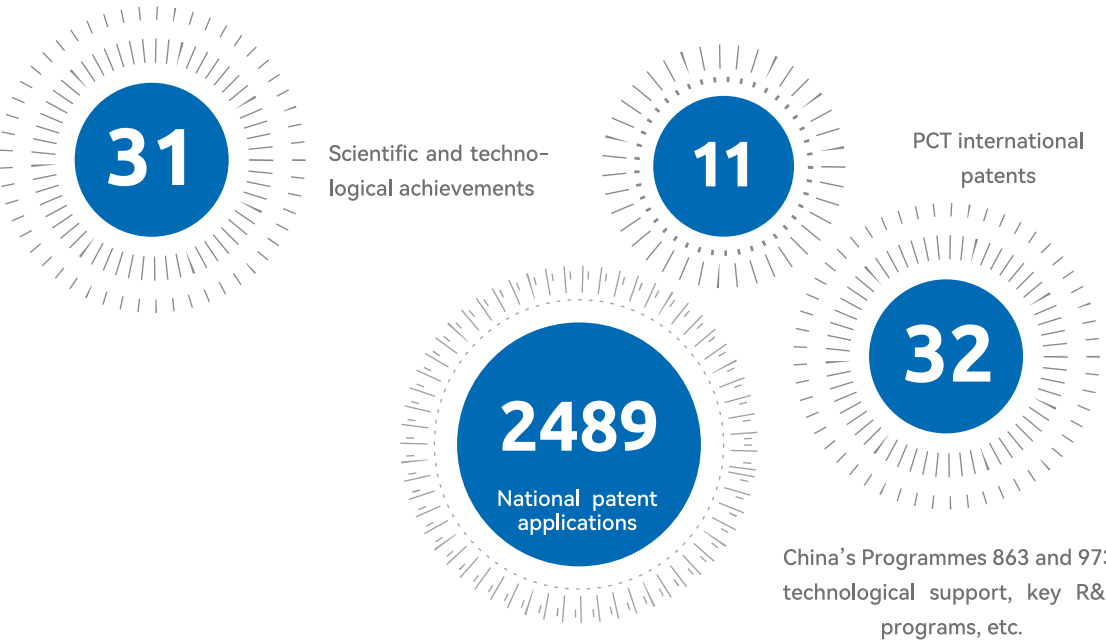
Presided over and participated in the compilation of 145 Chinese and international standards.





Strength in scientific research

Yingli Solar has continued to make heavy investment in R&D and innovation, introduce and train research talents in relevant high-end industries, for a further exploration of R&D. Yingli PV technology laboratories have been accredited by China National Accreditation Service for Conformity Assessment (CNAS), China General Certification Center (CGC) and Shanghai Dekra Quality Certification. There are more than 150 sets of instruments and equipment which are advanced both domestically and internationally in these laboratories, with a total investment of 120 million Yuan. This enables the company to test over 200 items related to the whole industry chain ranging from silicon wafers, cells, modules to power plants while meeting the requirements of many international standards, including IEC61215 and IEC61730.



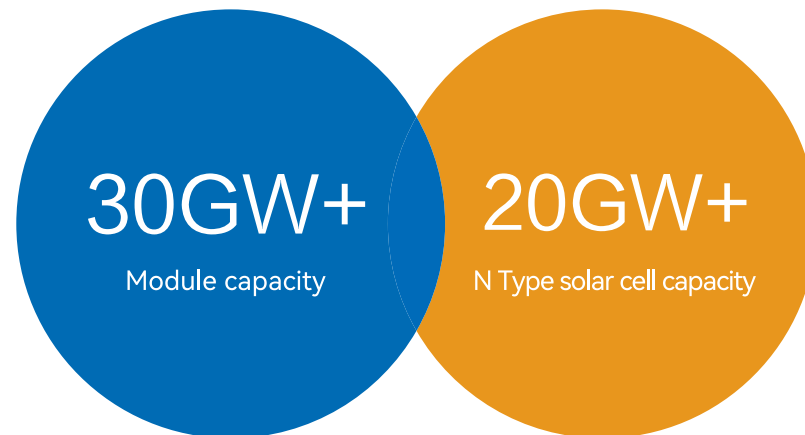
Leading-edge technologies make Yingli Solar more competitive

- Independent R&D
Yingli has ranked first in the industry in terms of the number of patent applications and authorizations for 10 consecutive years, and ranks 266th among Top 500 Chinese patentees. Yingli Solar gained such titles as "National Intellectual Property Demonstration Enterprise", "Pilot Enterprise of Intellectual Property Application of Advanced Collective Industrial Enterprises in the Implementation of National Intellectual Property Strategy".
- Industry-academia-research Cooperation
Yingli Solar has entered into long-term cooperation with over 20 top universities and research institutes across the world to build interactive and mutually beneficial high-level industry-academia-research cooperation carriers. Its PV module products represent the highest level of the industry.



Intelligent manufacturing

With the industry-leading equipment and technology, Yingli Solar has achieved a high degree of automation in manufacturing management, quality management and energy management of its industrial bases, and formed intelligent interconnection and digital operation of production lines and equipment. Moreover, Yingli has production lines that apply internationally leading technology, and as a result, an intelligent industrial park towards low-carbon, green and intelligent manufacturing has taken shape.



Labor efficiency up
30%

Management efficiency up
100%

Module conversion efficiency
24.8%



Three management systems form a closed loop of intelligent manufacturing



PANDA technology

panda



The first batch of foregoers in China

To make R&D and mass production of N-type cells



The world's first bifacial product supplier

Accredited by CGC, UL and TÜV



The world's first company

To make large-scale application of power generation technology of Bifacial N-Mono Module



The industry's first test standard

For bifacial power generation

LEADER IN N-TYPE TOPCON TECHNOLOGY

As a pioneer in developing and producing the first batch of N-type cells in China, Yingli Solar is the first company to achieve large-scale application of PANDA Bifacial N-Mono Module products by using its self-developed core technology and national-level laboratories with the support of the 863 Program, 973 Program and other national key scientific research programs. As a result, the first testing standard is then established. Yingli's continued efforts to increase the power generation of N-type cells and reduce the LCOE have made it possible to apply N-type cells in diverse climates nearly everywhere in the world.



Able to perform in diverse complex climates and environments

Utility power plant project under the Top Runner Program in Datong

The first bifacial power plant project under the Top Runner Program

The world's largest application project of high-efficiency bifacial N-mono module

PIF 3 Saad 2 PV Plant in Saudi Arabia

Significant reduction in LCOE in the high-temperature desert

Fishery and PV power plant project in Guangxi

Full absorption of the reflections on the water surface for power generation in humid subtropical areas

Multi-energy hybrid power plant project on Nansha Islands

Stable operation under high temperature, high humidity, high salt spray and high load

HIGHER ENERGY YIELD

- Outstanding Bifaciality
- Good low light performance
- low light induced degradation
- Good temperature coefficient

LOWER LCOE

BETTER ENVIRONMENTAL ADAPTABILITY

Makes the modules even more resistant to snow loads, low temperatures, humidity and heat, and salt mist corrosion



01



Project Development



02



Project Design



03



Construction



04



Assets Management

Power plant development and construction

With the business development model integrating "innovation, technology, industry and service", Yingli Solar is committed to providing its clients with industry-leading integrated solutions for clean energy, that is, one-stop efficient services.

In the future, Yingli Solar will seize the opportunity of the green transformation of global energy structure, stay innovation-driven, and focus on the development of clean energy, to actively build a green energy system, and thus to contribute to China's goal of carbon neutrality.



Large and medium-sized utility PV power plants



Fishery and PV power plant



Industrial and commercial flat rooftops



Agri-PV power plant



County-wide distribution



PV + Application Scenarios

 Integrated solutions for clean energy

Efforts in carbon neutrality



A Chinese brand with global reputation

The Company sponsored 2010 and 2014 FIFA World Cups, aiming to promote the concept of clean energy on international platforms.



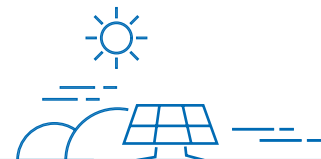
Making PV power more valuable for a shared green future

Yingli Solar has made positive efforts in carbon neutrality. It took the lead in releasing the White Paper on "Carbon Neutrality" Action Plan, announcing its carbon neutrality goal and action plan. Moreover, it joined hands with nearly 100 enterprises in the new energy industry chain to release the Green Supply Chain Initiative for "Carbon Neutrality".



Lighting up people's life through PV power

As a pioneer in China's green and low-carbon sector, Yingli has been among the first batch of enterprises shortlisted for the "China New Energy Industry ESG Value Index" and has been honored with titles including "Global Top 500 New Energy Enterprise", "Carbon Neutrality Green Influence Leading Brand", "Global New Energy ESG Top 100", and "2025 Energy ESG 100 Top 10 Case".



Utility PV power plants

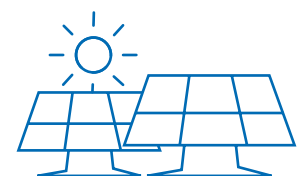
The Suorong Photovoltaic Power Station project in Litang, Garzê, Sichuan
The world's largest Hydro - Solar Complementary project in 2025

Project Capacity: 1GW
Location: Ganzi, Sichuan

Qinghai Gonghe PV-Thermal Project

Project Capacity: 1GW
Location: Gonghe, Qinghai

- ① Power plant in Qinghai
- ② Power plant in Yunnan
- ③ The Suorong Photovoltaic Power Station project in Litang, Garzê, Sichuan
- ④ Dingzhuang reservoir photovoltaic power plant



Utility PV power plants

Power plant in Spain

Project Capacity: 263MW
Location: Spain

Bifacial power plant in Oman

Project Capacity: 117MW
Location: Oman

- ① Power plant in Germany
- ② Power plant in Spain
- ③ Power plant in Zhangbei
- ④ Power plant in Japan
- ⑤ Bifacial power plant in Oman





Utility PV power plants

PIF 3 Saad 2 PV Plant

Project Capacity: 1.25GW
Location: Saudi Arabia

- ① Power plant in Saudi Arabia
- ② Power plant in Youyu, Shanxi
- ③ Power plant in Germany
- ④ Power plant in Yunnan



Commercial projects

Xiong County Second People's Hospital project

Project Capacity: 352kW
Location: China

IKEA, Switzerland

Project Capacity: 300kW
Location: Switzerland

- ① Great Wall Factory
- ② IKEA, Switzerland
- ③ Antwerp
- ④ Australian Commercial Projects

1



Commercial projects

Xiong'an train station

Project Capacity: 6MW

Location: Xiong'an

- ① Xiong'an train station
- ② Commercial project in Switzerland
- ③ Rio de Janeiro
- ④ Commercial project in Costa Rica



Commercial projects and Integration Projects

Shanghai Hongqiao

Project Capacity: 6.7kW
Location: Shanghai

- ① The Nanyang Technological University project
- ② PV distributed project in El Salvador
- ③ Shanghai Hongqiao



④ PV+Electric Heating systems

In order to optimize the energy structure, continuously improve air quality and improve clean heating, Yingli Solar installed 36.275MW PV+Electric Heating Systems for 7153 households in 38 villages in four counties of Baoding.



PV Distributed and Integration Projects

Guangxi Solar Agriculture

Project Capacity: 200MW
Location: Guigang, Guangxi

- ① Guangxi Solar Agriculture
- ② PV distributed project in Germany
- ③ Independent system in Maldives
- ④ Guangxi Solar Agriculture
- ⑤ PV distributed project in Singapore
- ⑥ Floating power plant in Switzerland
- ⑦ Australian Commercial Projects
- ⑧ Japanese car shed project
- ⑨ Guangxi Solar Agriculture



Mission

Build a Green and Beautiful Homeland for All

Vision

To be a global leader in green and intelligent energy technology

The Enterprise Spirit

Responsibility, Tenacity, Innovation, High efficiency

Core Values

Trust, Delivery, Growth, Sharing

