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**JINNENG CLEAN ENERGY TECHNOLOGY LTD**





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Committed to become a leading  
PV manufacturer  
and clean energy provider  
in the global market



# Milestones



# Jinneng Holding

Total Assets

155.5 billion USD

Coal Capacity

400 million tons

Power Installed Capacity in Operation

23.54 GW

Wind and Solar Power Capacity

6.62 GW



Jinneng Holding Group was established on September 30, 2020. Jinneng Holding Group is a comprehensive energy enterprise group mainly engaged in coal, thermal power and clean energy power generation, and integrating equipment manufacturing, logistics trade, chemical diversification and logistics services.

Jinneng Holding Group is a state-owned energy giant formed in 2020, Jinneng Holding Group has a registered capital of 6.93 billion USD and total assets of 155.5 billion USD.





# Jinergy

Founded on December 31, 2013, Jinneng Clean Energy Technology Ltd. (Jinergy) is a global leading PV manufacturer and clean energy provider incorporated under Jinneng Holding Group.

Consisting of PV experts from home and abroad, Jinergy’s management and R&D teams follow the core strategy of technology iterations. And through continuous technological innovation and lean production, Jinergy has reached the most advanced and cost-effective cell and module production capacity. With commitment to global coverage, Jinergy extends business in China, India, Japan, Pakistan, Mexico, Argentina, Australia, etc. and supplies customers with high quality and reliable solar modules.

Under technological innovation for industrial progress, Jinergy is bringing advanced PV manufacturing technology to the world and driving global energy structure transformation.



Top 500 New Energy Companies  
for Nine Years



PVEL TOP Performer



Ranked as the Most  
Bankable by PV-Tech



National Certified Enterprise's  
Technical Center



National Intellectual Property  
Advantage Company



National Green Factory



Intelligent Manufacturing



Specialized and Innovative  
Small & Medium-sized Enterprises



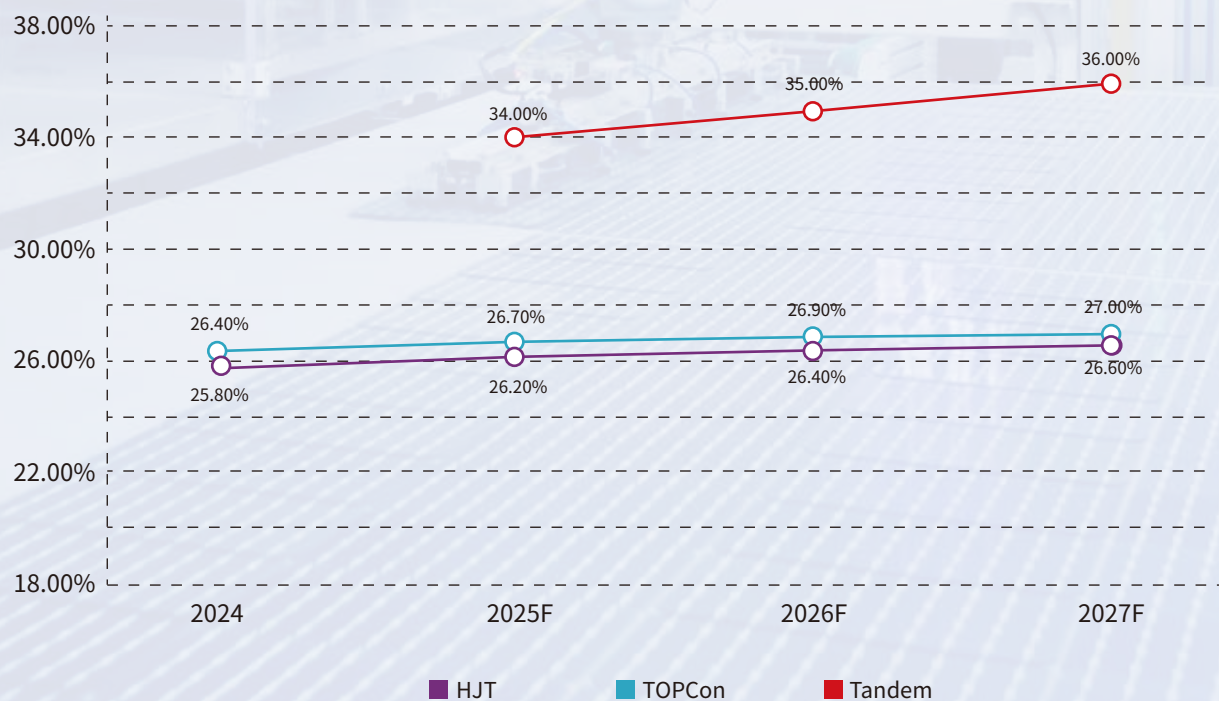
New High-tech Enterprise



# Technological Route

Jinergy has been implementing an iterative technology strategy, consistently driving industrial progress through technological innovation. Jinergy possesses both R&D and production capabilities for TOPCon and HJT technologies. Currently, Jinergy is actively developing Perovskite/XBC Tandem technologies and implementing an industrial layout using advanced techniques.

- 359 Applying Patents
- 115 Invention Patents



## Intelligent Manufacturing

### Industrial 4.0 Digital

- Make high efficient production by Digitalization.
- Achieve lean production by Applying Intelligent robots and fully automated equipment.
- Ensure a significant increase in product yield and production efficiency.

## Quality Authentication

### Four Guarantee Chains Whole Process Traceability

- Four guarantee chains: supplier management, process monitoring, shipment monitoring, and after-sales service.
- Achieve product lifecycle traceability.



# Product Introduction

## Regular Module Series



### Super High Efficiency N-HJT Solar Module

#### Improve power generation in all aspects

- Lower temperature coefficient, PID-free, lower power loss in high temperature environment.
- Excellent low light performance, increase power generation at dawn/dusk and in cloudy days.
- Ultra-low power degradation ensures long-term performance.
- Bifacial factor > 85%, 10%-35% extra power generation to be gained in different scenarios.



### High Efficiency N-TOPCon Solar Module

#### Performance more advanced & reliability improved

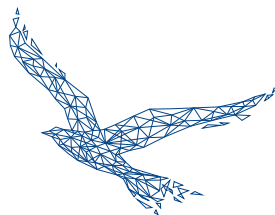
- Lower LID and LeTID ensure long-term returns.
- Non-destructive cutting with ultra-high-precision welding Improve module efficiency and reliability.
- SMBB metallization technology reduces series resistance losses and improves module reliability.
- Thinner busbars reduces shadow and conduction distance, increasing nominal power.



## Jinergy Design Series JDS

### Develop the customized solar module

Jinergy's Design Series products are developed with the concept of "Phenomenal Performance" in mind. Our focus is on providing efficient and environmentally-friendly photovoltaic solutions, while also differentiating ourselves from other products on the market and creating exceptional value for our customers. We strive to meet the specific needs of our customers, particularly in new application scenarios such as distributed and harsh environments, by addressing pain points and providing tailored solutions. Our product range includes all-black modules, lightweight modules, alloy steel modules, anti-dust modules, enhanced pro modules, offshore modules, greenhouse transparent solar modules, solar fence greenhouse transparent solar module and more.



**Project Financing Supports**



**Purchase Order Financing**



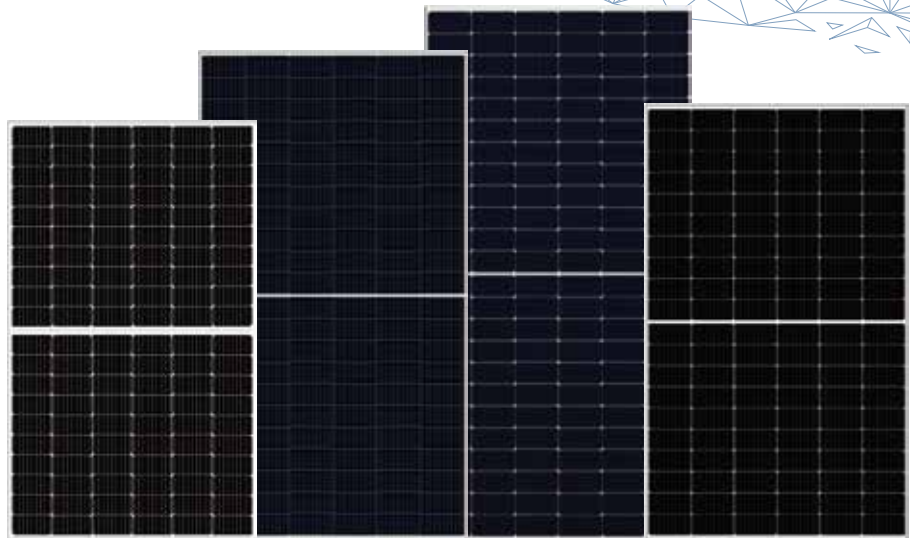
**BIPV Product Customization**



**Discontinued Solar Modules for Replacement Work**



**Supply Chain Management Services**





# Product Quality

## Management System Certifications

- ISO9001:2015 Quality Management System
- ISO14001:2015 Environmental Management System
- ISO45001:2018 Occupational Health and Safety Management System
- ISO/IEC17025:2017 General Requirement for Testing and Calibrating Capabilities of Laboratory
- SA8000:2014 Social Accountability 8000 International Standard

## Product Certifications

- Product certification: TUV, PVEL, BIS, KS, CE, Carbon footprint
- Listed by: CEC(AU), INMETRO, JPAC, DEWA, SII, WEEE
- Passed the strict reliability test, Including salt-mist spray, ammonia, dust-and-sand, PID and LeTID



## National Accredited Laboratory

Performance and Environmental  
Reliability Tests



TÜV SÜD Qualified CTF(stage1)



TÜV NORD Witness Laboratory

### System Certification



### Product Certification



### Product Listed





# Social Responsibility

"Green and low-carbon" has emerged as the primary focus of industrial advancement and growth. By incorporating technology innovation, low-carbon construction, and green production into its business practices, Jinery has effectively integrated ESG principles into its development strategy. With a commitment to sustainable development through the principles of innovation, environmental consciousness, excellence, and efficiency, Jinery aims to generate greater value in the field of photovoltaic energy as a clean source of energy. This will not only assist customers in achieving a more comprehensive approach to green and low-carbon energy usage, but also fulfill its social responsibility and contribute to the energy transformation.

Major Environmental Violations

0 times

The Number of Employees

2000+

Enrich Training Courses Annual Training

3000+ hours

Saving and Recycling



Control Recycling of Waste Treatment & Packaging Materials



Low-carbon Developed Concept



ACHIEVE CARBON PEAKING  
AND NEUTRALITY GOALS



Dun & Bradstreet Certification



Social Accountability 8000  
International Standard



Eco-contributo RAEE assolto  
ove dovuto



# Global Sales Network





# Project Case

## ○ Large Solar Power Station

- ① 175MW solar project in Tianzhen, Shanxi, China
- ② 100MW Fishery-solar Hybrid project in Tianchang, Anhui, China
- ③ 110MW Fishery-solar Hybrid project in Chongming, Shanghai City, China



- ④ 110MW solar project in Macheng, Hubei, China
- ⑤ 100MW solar project in Shanyin, Shanxi, China
- ⑥ 435MW solar project in Jodhpur, India
- ⑦ 90.7MW solar project in Yangxin, Hubei, China
- ⑧ 136MW solar project in Rajasthan, India



○ Distributed Solar Power Station

- ① Energy Storage Distributed solar project in Okinawa, Japan
- ② Commercial Rooftop Distributed solar project in Korea
- ③ Distributed solar project in Xinzhou, Shanxi, China
- ④ Commercial Rooftop Distributed solar project in Wenshui, Shanxi, China



- ⑤ Distributed solar project in Australia
- ⑥ Distributed solar project in Cyprus
- ⑦ Distributed solar project in Fangshan, Shanxi, China
- ⑧ Distributed solar project in Tianzhen, Shanxi, China
- ⑨ JTC Solar Farm Distributed solar project in Singapore

