



JINNENG CLEAN ENERGY TECHNOLOGY LTD

**Headquarters Jinzhong Production Base**

No. 533, East Guang'an Street, Yuci District, Jinzhong, Shanxi 030600, China  
Tel: +86(354)-3023555 E-mail: info@jinery.com  
Sales: +86(354)-2037999 E-mail: sales@jinery.com

**Wenshui Production Base**

No. 1 Wenshui Economic Development Zone, Lvliang, Shanxi 032100, China

**Sales and R&D Center**

2F, 1<sup>st</sup> Building, No.99 Haike Road, Pudong, Shanghai 201210, China



[www.jinery.com](http://www.jinery.com)

**JINNENG CLEAN ENERGY  
TECHNOLOGY LTD**

 A JINNENG HOLDING GROUP COMPANY

©202102 JINNENG CLEAN ENERGY TECHNOLOGY LTD. All rights reserved.



Leader of PV Manufacturing  
Innovator of Business Model

# Jinneng Holding Group



Jinneng Holding Group is a state-owned energy giant formed in 2020, by consolidating former Datong Coal Mine Group, former Shanxi Jincheng Anthracite Coal Mining Group, former Jinneng Group, coal, electricity, and coal machinery equipment manufacturing related assets of Lu'an Group and Huayang New Materials Technology Group, and restructured China Taiyuan Coal Trading Center Co., Ltd. Jinneng Holding Group has a registered capital of 7.74 billion USD and total assets of 171.8 billion USD, including coal production capacity of about 400 million tons, installed power capacity of 38.15GW, and coal machinery and equipment manufacturing assets of 5.7 billion USD.

Focusing on improving coal industry, strengthening power industry and expanding intelligent equipment manufacturing industry, Jinneng Holding Group has established six subsidiaries, namely, Jinneng Holding Coal Industry Group, Jinneng Holding Power Group, Jinneng Holding Equipment Manufacturing Group, China Taiyuan Coal Trading Center, Jinneng Holding Shanxi Science and Technology Research Institute Co., Ltd, and Jinneng Holding Finance Company.

With the spirit of "innovative, green, excellent and efficient", Jinneng Holding Group will make every effort to build a first-class intelligent and environmental-friendly modern energy group that features high technology and high efficiency.

<b>7.74</b> billion USD Registered Capital	<b>171.8</b> billion USD Total Assets	<b>400</b> million tons Coal Production Capacity	<b>38.15</b> GW Installed Power Capacity	<b>5.7</b> billion USD Coal Machinery and Equipment Manufacturing Assets
---	--	---	---	--

# Jinneng Clean Energy Technology Ltd.



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 goal of edging into global top 5% 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, Ukraine, etc. and supplies customers with high quality and reliable Poly C-Si, PERC Mono C-Si and HJT modules. Under technological innovation for industrial progress, Jinergy is bringing advanced PV manufacturing technology to the world and driving global energy structure transformation.

**BloombergNEF**

Tier 1  
PV module supplier



Industry 4.0  
manufacture base



Awarded  
"Top 500 Global  
Clean Energy Enterprises"  
in 5 consecutive years



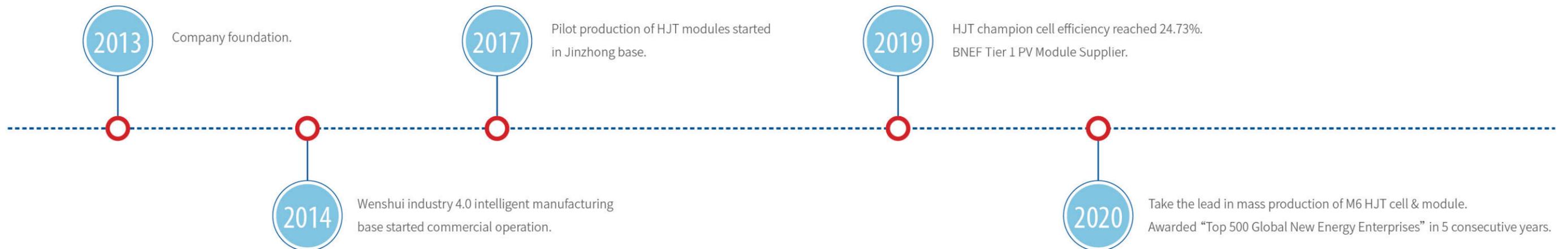
First China-based manufacturer  
to commercialize  
HJT technology

# Global Sales Network



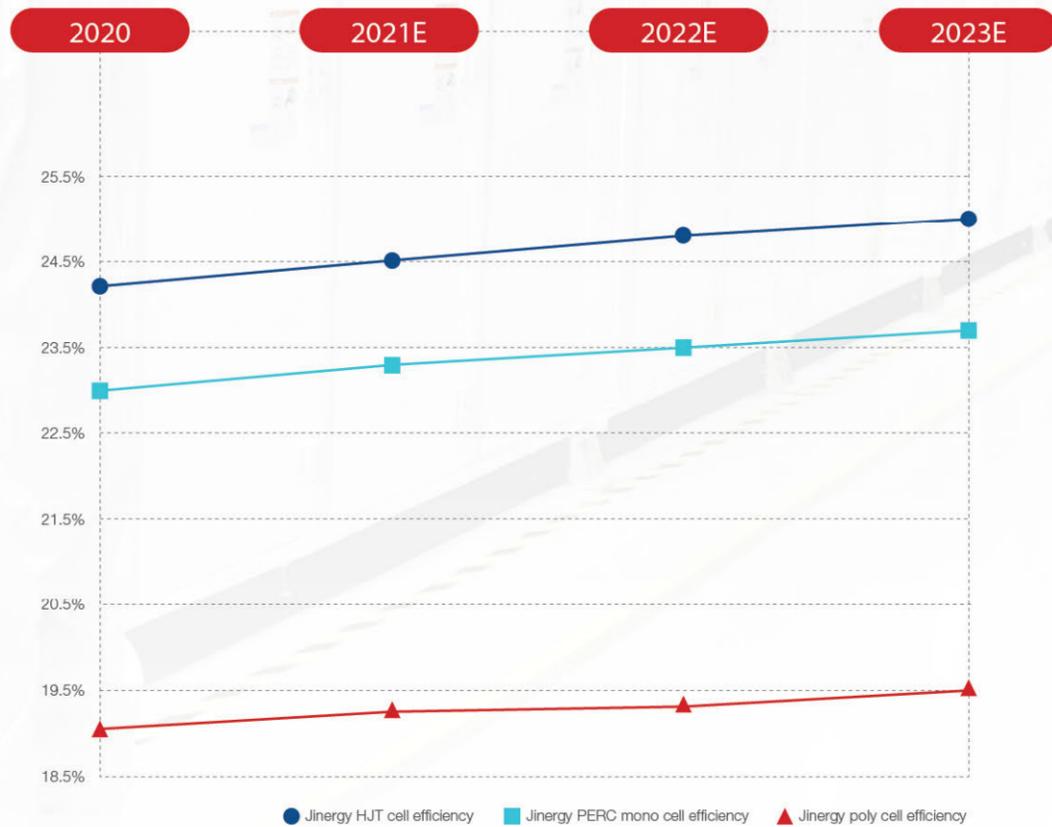
# Milestones

By the end of 2020, Jinery has supplied more than **6.5GW** solar modules to nearly **30** countries.



# Technological Innovation for Industrial Progress

Jinergy believes that technological innovation leads industrial progress. Under the strategy of technology iteration, Jinergy has 167 patent applications and 88 authorized patents by the end of 2020. Jinergy also operates a National Technology Center and a Provincial Enterprise Technology Center. Jinergy will continue to contribute its share in high-quality development of PV industry with improved technological innovation system.



# Quality

## Quality Assurance Chain



## Management System Certifications

- ISO9001: 2015 Quality Management System
- ISO14001: 2015 Environmental Management System
- ISO45001: 2018 Occupational Health and Safety Assessment Series
- ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories

## Product Certifications

Certifications: TUV, BIS, KS, CE, SIL  
 Listings: CEC (AU) listing, INMETRO listing, JPAC listing, and DEWA listing.  
 High efficiency poly solar module, high efficiency PERC mono solar module have passed strict reliability test, including salt mist corrosion, ammonia corrosion, dust and sand, PID and LeTID reliability test.  
 Super high efficiency HJT solar module received global first M6 MBB and half-cell bifacial dual glass module certification.

**12-YEAR**

Product Materials and Workmanship Quality Warranty

**30-YEAR**

Linear Power Output Warranty



# Products



## ADVANCED PRODUCTION PROCESS

Edge-cutting production process  
Technology iterations  
MBB and half-cut technology adopted



## SUPERIOR QUALITY CONTROL

Full-auto production line  
Certificated by ISO 9001:2015  
MES and ERP digitizing logistics management



## EXCELLENT POWER PERFORMANCE

0~+5W positive power tolerance  
Half-cut cell effectively reduces loss and improves power generation  
Low degradation and excellent low-light performance improves power generation



## STABLE MECHANICAL PERFORMANCE

Rigorous hail test approved  
MBB design effectively reduces affected area of microcrack  
Withstanding 2400Pa wind and 5400Pa snow loads



## STRONG WEATHERABILITY

Excellent anti-PID and anti-LID performance  
Fireproofing certified  
Dual-glass structure enhances weather resistance

## HJT Series

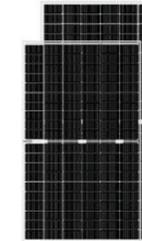
JNHM120/144

Free from PID and LID

Providing 10%-35% extra power from backside in different scenarios.

Featuring low temperature coefficient, low degradation and excellent low light performance.

MBB and half-cut design to improve module reliability and reduce loss.



## PERC Mono Series

JNMM60/72 JNMM120/144 JNBM120/144

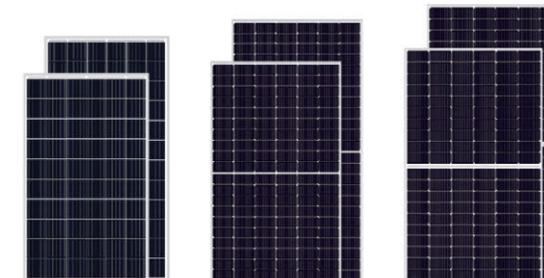
Ga-doped silicon wafer, effectively reducing LID and LeTID.

166mm, 182mm and 210mm wafer optional for MBB and half-cell modules.

Bifacial module provides 5%-25% extra power from backside in different scenarios,  
transparent backsheets optional for lightweight and easier installation.

MBB and half-cell design to improve module reliability and reduce loss.

Higher power output effectively reduces BOS and LCOE.



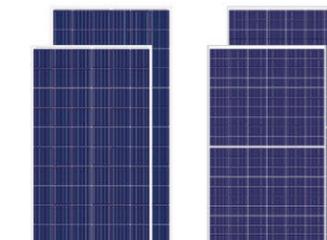
## Poly Series

JNMP60/72 JNMP120/144

Excellent anti-PID, anti-LID performance.

Demonstrated extremely low degradation.

Full-size and half-cut cells optional.



# Cases

01 3.3MW Solar Storage Project in Okinawa, Japan

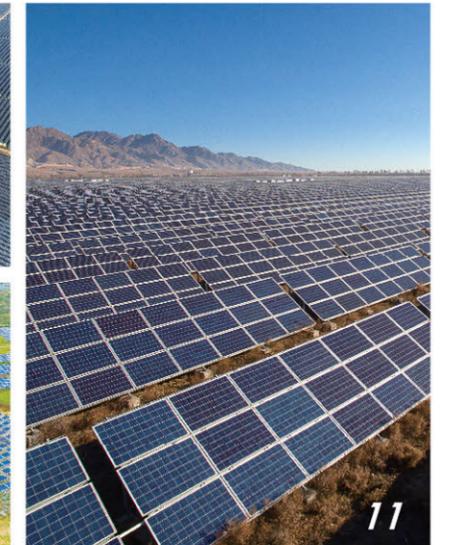
03 200KW Industrial and Commercial Solar Project in Daejeon, South Korea

05 5MW Solar Project in Chungnam, South Korea

02 6MW Solar Project in South Australia, Australia

04 5.3MW Solar Farm in Singapore

06 435MW Solar Project in Jodhpur District, India



07 110MW Solar Project in Macheng, Hubei Province, China

09 20MW Solar Project in Huili, Sichuan Province, China

11 175MW Solar Project in Tianzhen, Shanxi Province, China

13 70MW Solar Project in Yangao, Shanxi Province, China

08 100MW Fishery-Solar Hybrid Project in Tianchang, Anhui Province, China

10 70MW Solar Project in Datong Front Runner Base Phase I, Shanxi Province, China

12 110MW Fishery-Solar Hybrid Project in Chongming District, Shanghai, China

14 100MW Solar Project in Shanyin, Shanxi Province, China

# Power Alleviating Projects

Power alleviating projects are closely related to people's livelihood and as a SOE (state-owned-enterprise), Jinery is responsible to take the lead. With strong weatherability in harsh environments, Jinery's high efficiency modules are able to provide sustainable income for poverty-stricken regions.

- 01 10.1MW Solar Farm in Tianzhen, Shanxi Province, China
- 02 2MW Animal Husbandry-Solar Hybrid Project in Linxian, Shanxi Province, China
- 03 1MW Solar Project in Lanxian, Shanxi Province, China
- 04 8.51MW Solar Project in Ningwu, Shanxi Province, China
- 05 18MW Solar Farm in Fangshan, Shanxi Province, China

