



JINNENG CLEAN ENERGY TECHNOLOGY LTD

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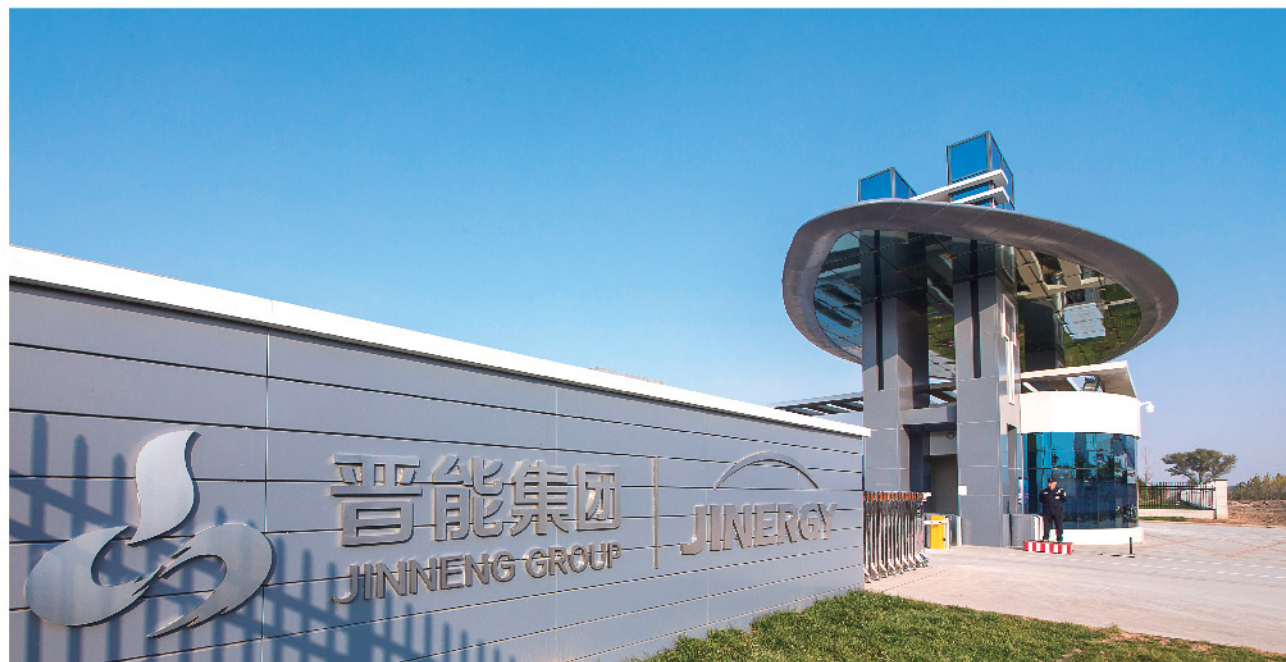
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JINNENG CLEAN ENERGY
TECHNOLOGY LTD



Leader of PV Manufacturing
Innovator of Business Model

Jinneng Group Co., Ltd.



Jinneng Group Co., Ltd. (Jinneng Group), merged and reorganized with original Shanxi Coal Transportation and Sales Group Co., Ltd. and Shanxi International Electricity Group Limited Company, is a large state-owned integrated energy group.

Jinneng Group aims to build itself into one of the first-class energy groups with the pattern of “clean use of traditional energy and efficient development of clean energy”. By deepening enterprise reform and business upgrading, Jinneng Group have established and improved the industrial system featured by “clean energy as main business, coal, electricity and real estate as supplementary, modern service and finance as new industry”.

By the end of 2018, Jinneng Group reported revenue of RMB 103.62 billion and profit of RMB 3.53 billion. In clean energy business sector, cumulative installation capacity of clean energy power plants achieved 1.23GW, power generation reached 2.1 TWh and PV manufacturing technology reached world advanced level. In coal business sector, with 65 coal producing mines, Jinneng Group's annual coal production reached 84.48 million tons and annual coal trade reached 165 million tons. Jinneng Group also has 12 thermal power plants under operation or construction, with a total capacity of 8 GW and annual power generation of 25 TWh, making Jinneng Group the largest heating supplier in Shanxi Province.



Revenue
RMB 103.62 billion



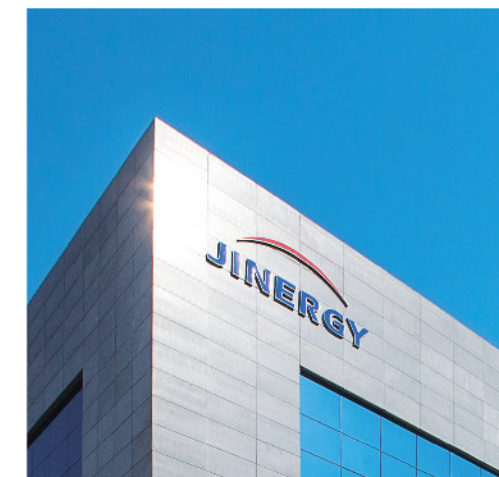
Clean Energy Power Generation
2.1 TWh



Thermal Power Generation
25 TWh



Annual Coal Trade
165 million tons



Jinneng Clean Energy Technology Ltd.

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

Consisting of PV experts from home and abroad, Jinerger's management and R&D teams follows the core strategy of technology iterations. And through continuous technological innovation and lean production, Jinerger has reached the goal of edging into global top 5% most advanced and cost-effective cell & module production capacity. With commitment to global coverage, Jinerger 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, Jinerger is bringing advanced PV manufacturing technology to the world and driving global energy structure transformation.

BloombergNEF

Tier 1
PV module supplier



Approved as one of the
first “Front Runners”



Industry 4.0
manufacture base

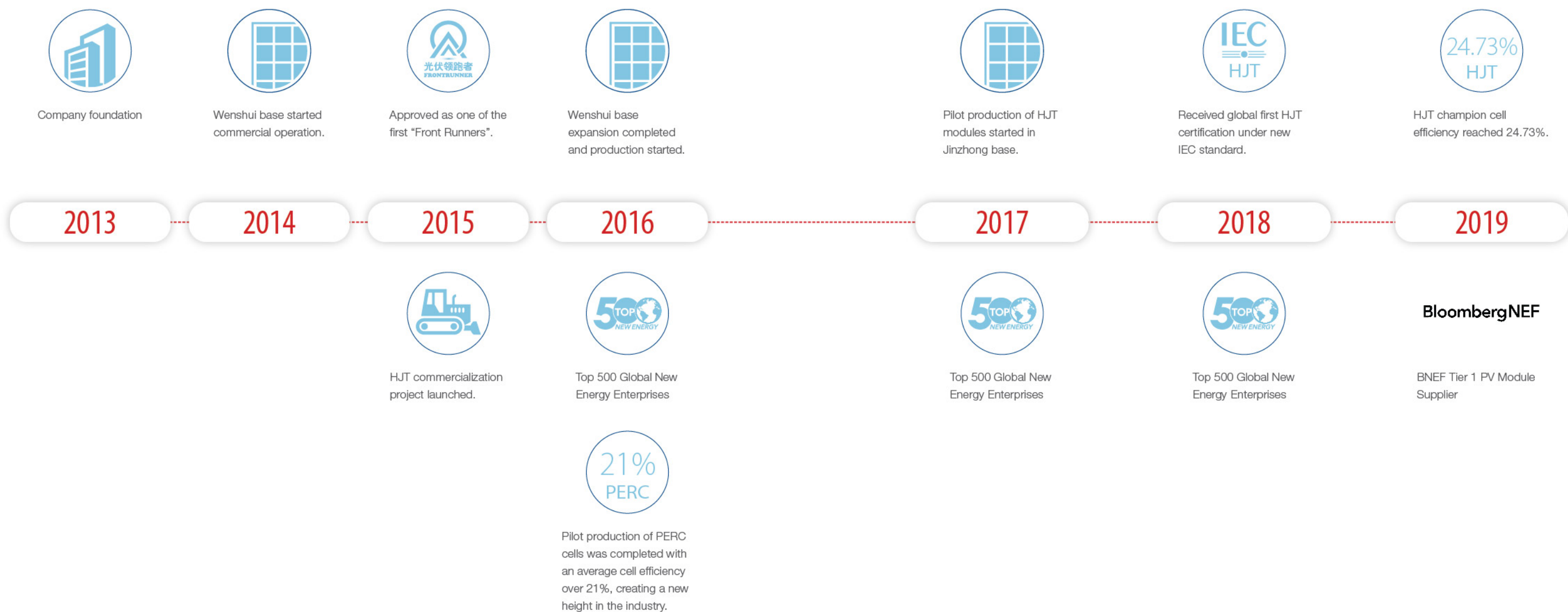


Awarded
“Top 500 Global
Clean Energy Enterprises”
In three consecutive years



First China-based manufacturer
to commercialize
HJT technology

Milestones



Industry 4.0 Manufacture Base and Technology Roadmap

Quality

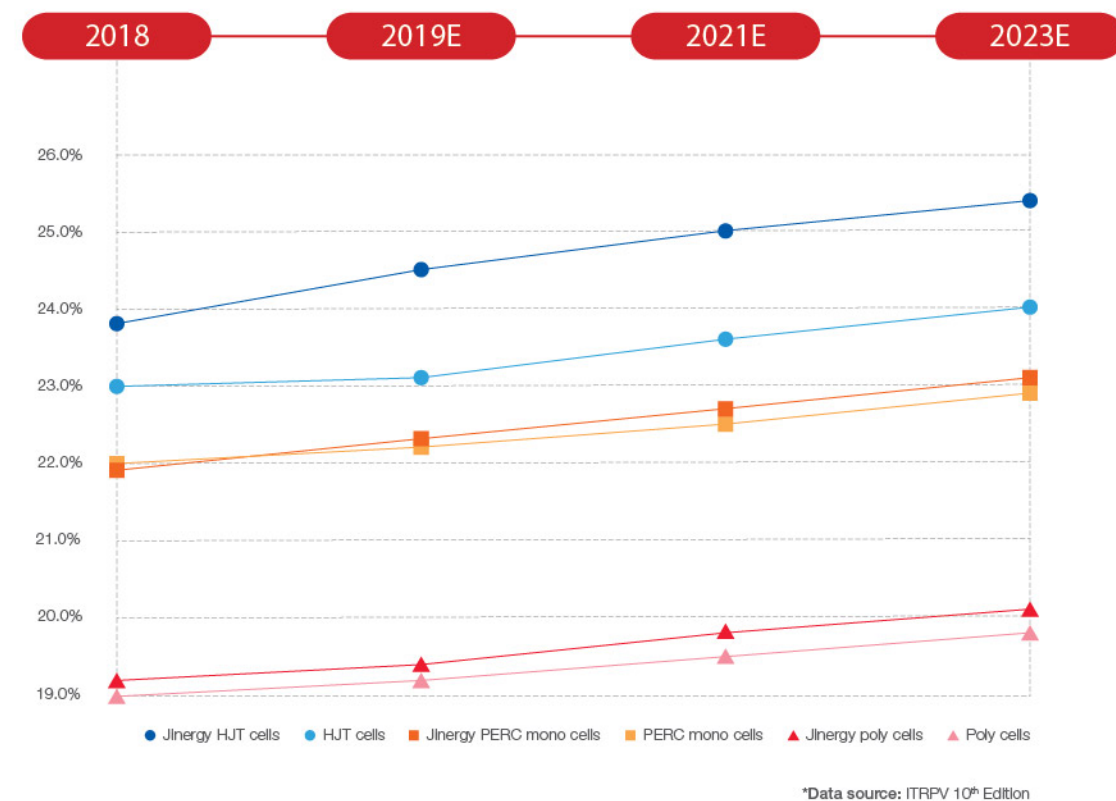
2GW High Efficiency PV Cell & Module Capacity

Edge-cutting technology roadmap and equipment for mass production, to build top 5% most competitive capacity in the world.
Market-overturning N-type heterojunction technology will bring breakthrough to LCOE reduction and lead the future of PV manufacturing technologies.

Wenshui, Shanxi Province



Jinzhong, Shanxi Province



Quality Assurance Chain



Management System Certifications

ISO9001: 2015 Quality Management System
ISO14001: 2004 Environmental Management System
OHSAS18001: 2007 Occupational Health and Safety Assessment Series

Product Certifications

Certifications: TUV, CQC, MCS, BIS, KS, and CE.
Listings: CEC (AU) listing, CEC(US) listing, FSEC listing, JPAC listing, and DEWA listing.
High efficiency mono module, high efficiency poly module and super high efficiency HJT module approved as Chinese Front Runner modules.
Super high efficiency HJT module received global first new IEC certificate.



* For dual glass products.



Products



ADVANCED PRODUCTION PROCESS

Edge-cutting production process
Technology iterations



SUPERIOR QUALITY CONTROL

Full-auto production line
Certificated by ISO 9001:2015



EXCELLENT POWER PERFORMANCE

0~+5W positive power tolerance
Improved low-light performance



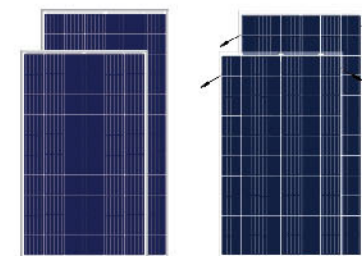
STABLE MECHANICAL PERFORMANCE

Rigorous hail test approved
Withstanding 2400Pa wind and 5400Pa snow loads



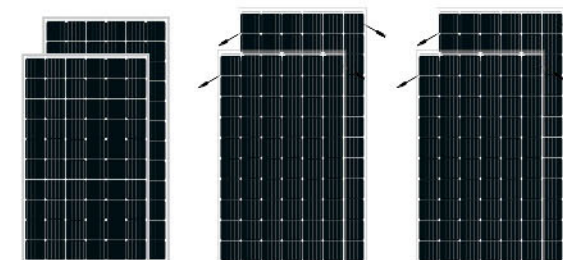
STRONG WEATHERABILITY

Excellent anti-PID and anti-LID performance
Fireproofing certified



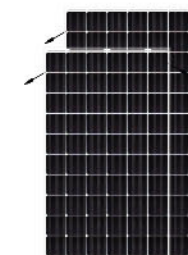
High Efficiency Poly Module
JNMP60/72 JNGP60/72

Front Runner
Excellent anti-PID, anti-LID performance
5BB or MBB optional
Framed or frameless optional



High Efficiency PERC Mono Module
JNMM60/72 JNGM60/72 JNBM60/72

Adopting SE-PERC technology
Enhancing module efficiency
5BB or MBB optional
Framed, frameless or bifacial optional



Super High Efficiency HJT Module
JNHM60/72

Free from PID and LID
Low temperature coefficient
Excellent low light performance
Bifacial power generation with high bifaciality



Cases

- 01 3.3MW Solar Storage Project in Okinawa, Japan
- 02 6MW Solar Project in South Australia, Australia



01



02



03



04



05



06

- 03 110MW Solar Project in Macheng, Hubei Province, China
- 04 10MW Solar Project in Mianning, Sichuan Province, China
- 05 70MW Solar Project in Datong Front Runner Base Phase I, Shanxi Province, China
- 06 175MW Solar Project in Tianzhen, Shanxi Province, China
- 07 5MW Solar Project in Pinglu, Shanxi Province, China
- 08 100MW Fishery-Solar Hybrid Project in Tianchang, Anhui Province, China
- 09 20MW Solar Project in Huili, Sichuan Province, China
- 10 10MW Solar Project in Youyu, Shanxi Province, China



07



08



09



10

Power Alleviating Projects

Power alleviating projects are closely related to people's livelihood and as a SOE (state-owned-enterprise), Jinergy is responsible to take the lead. With strong weatherability in harsh environments, Jinergy'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



01



02



03



04



05

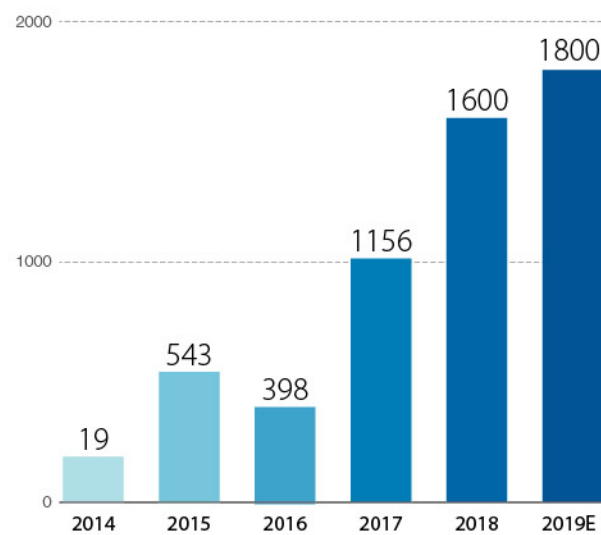
Constructed by Jinneng Clean Energy PV Construction Co., Ltd.: 1, 2, 3, 5

Sales Network

By the end of 2018, Jinergy supplies 3.76GW solar modules to 13 countries globally.



Module Shipment (MW)



Clean Power Generated (GWh)

