

N-type Era for the Notch Above



Jinko Solar Co., Ltd. Q4 2024 jinkosolar.eu



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on Industry Development



Climate Change & Global Action

Climate Commitments and Net Zero
Targets for Top 10 Global GDP Countries

To combat climate change, **198 countries** adopted the Paris Agreement in 2015, agreeing to limit temperature rise to **2°C** above pre-industrial levels within this century.

Currently, **120 countries** and regions have adopted "zero carbon" or "carbon neutral" targets.



United States | 2050

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Brazil | 2050



United Kingdom | 2050



India | 2060



Japan | 2050



Canada | 2050



Italy | 2050



France | 2050



China | 2060

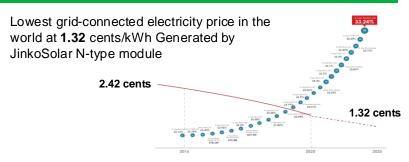


Germany | 2045

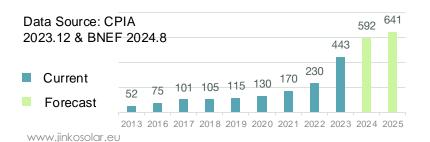


Energy Transition, Photovoltaic Taking Charge

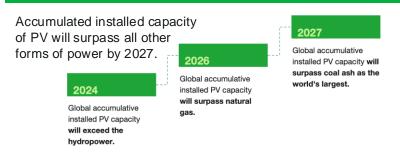
1. The Most Cost-effective Energy Source



3. Largest Growth Energy Source



2. The Cleanest Energy Source



4. Smartest Energy

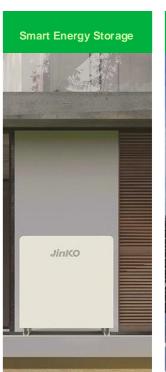




Future Energy Supply Model















Accelerating the Global Energy Transition



Building a new photovoltaic-based electric energy system:

- Zero Carbon Cities
- Energy Internet



⁰² Company Overview

Company Profile

JinkoSolar (stock code: 688223) is a leading global manufacturer of photovoltaic modules and energy storage system.

It is on a mission to "Changing the Energy Portfolio and Taking Responsibility for the Future" to accelerate the global shift to sustainable energy and address the most pressing challenge of climate change. JinkoSolar is ranked among the Hurun Top 50, Fortune China Top 500 and MIT Technology Review's 50 Smartest Companies in the World.

JinkoSolar is the 1st company shipped more than 300GW* of modules by Q3 2024, boasting **a global market share of 15%** and the top market share in 8 of the top 10 PV markets.



Optimize the energy portfolio and take responsibility for enabling a sustainable future.





Vertical Integration

- Stable supply chain with large orders;
- Cost control creates profitability advantage;
- Overseas integrated supply chain.









Excellence Smart Manufacturing

Intelligent Factory

JinkoSolar has fully implemented Smart Manufacturing, combining Industry 4.0, Smart Factory and Industrial Internet of Things (IIoT), enabling JinkoSolar to become a benchmark for efficient, agile and flexible PV product manufacturing.





Distribution PV Era

PV's unique distributed nature predestines it to become the domination of renewable energy in the future. By the year 2023, JinkoSolar's distributed business accounts for 40% of JinkoSolar's revenue, with a major presence in Europe, Australia, Japan, Brazil, etc.



Jinko Solar Co., Ltd.

Honors and Awards

- Listed on the Fortune Top 500 China for 10 consecutive years, ranking 188th in 2024
- Ranked "Most Bankable" PV brand by Bloomberg New Energy for 9 consecutive years and recognized as Tier 1 energy storage provider in BNEF's Q2 and Q3 2024 reports
- SSE "Science and Innovation 50 Index" and "SSE Growth Index" sample companies
- Forbes Top 50 Innovative Companies in China
- Harvard Business Review Enterprise Award for Digital Transformation
- China Listed Companies Association "Top 500 Excellent ESG Practice Cases of Listed Companies"
- China Listed Companies Association "Top 500 Private Enterprises in China's Manufacturing Industry"
- 2024 Fortine China Tech 50
- Recognized in the "2023 Forbes China Globalization Brands Top 30" under the "Leading Brands" category

• 2022 Hurun China Top 500, Top50



BloombergNEF



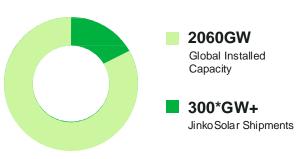




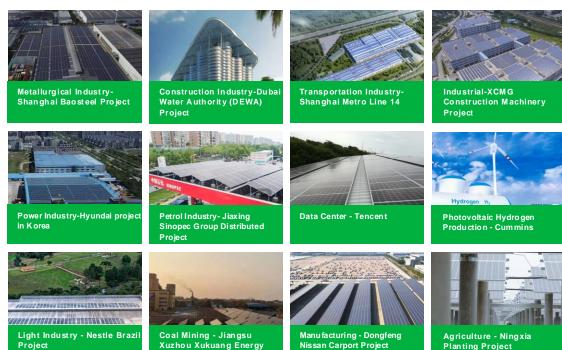




Contribution to Emission Reduction



By 2024 Q3, JinkoSolar shipped 300*GW+ out of 2060GW of PV modules worldwide, which means that 1 out of every 8 modules comes from JinkoSolar. JinkoSolar contributes 1 kg of every 8 kg of carbon reduction.



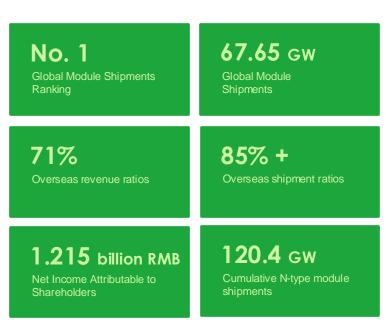
Project

Data source: BNE

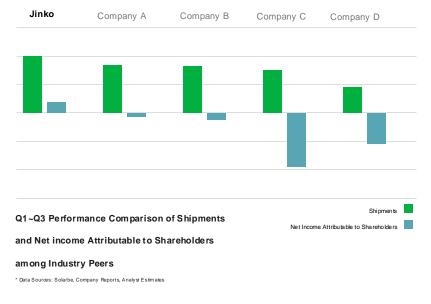
* status from December 3rd, 2024



2024 Q1 - Q3 Financial Results



* Data as of 2024.10.31



- No.1 in global module shipments, with a growing share of overseas revenue
- Total N-type module shipments have surpassed 120.4GW
- Overcame external challenges, demonstrated strong operational resilience, balanced scale with profitability, and ensured sustainable business operations



Q1 – Q3 2024 Peer Performance Comparison

Shipment Volume Comparison (GW)

Rank	Module Shipments	Q1 - Q3		
1	JinkoSolar	67.65		
2	Α	57		
3	В	54-55		
4	С	51.23		
5	D	32		
6	E	29		
7	F	22.9		
8	G	14.5+		
9	Н	14.5+		

Total Operating Income Comparison (Unit: CNY Billion)

Rank	Gross Revenue	Q1 - Q3		
1	JinkoSolar	71.77		
2	Α	68.27		
3	В	63.15		
4	С	58.59		
5	D	54.35		
6	E	34.18		
7	F	22.58		
8	G	20.37		
9	Н	16.46		

Comparison of Net Attributable Profit (Unit: CNY Billion)

Rank	Net Profit Attributable to Shareholders	Q1 - Q3
1	Α	1.96
2	В	1.45
3	JinkoSolar	1.22
4	С	0.08
5	D	-0.48
6	E	-0.85
7	F	-1.10
8	G	-1.41
9	Н	-2.83

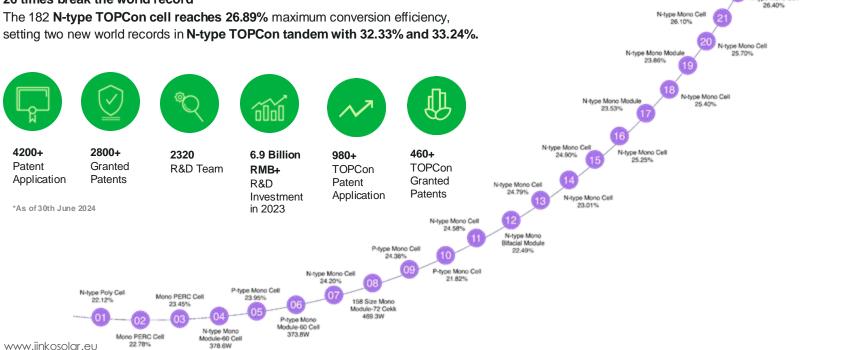
^{*} All data is sorted by 2024 Q1~Q3



⁰³ Technology Innovation

Leading Edge Technology

26 times break the world record



N-type Tandem Cell 33.24% N-type Tandem Cell

N-type Monocrystalline Cell 26.89%

N-type Mono Cell

N-type Monocrystalline Module 24.76%



N-type Leading the Way





Leading in Technical Indicators

- Highest Efficiency in Cell R&D: 33.24%
- Average Efficiency for Mass Production in 2024 Q3 26.5%+
- Module Power Higher than P-type: Around 35W



Global Sales Leadership

- Cumulative Global PV Module Shipment Volume 300**GW
- 2024 Shipment Volume Forecast: 100-110GW
- 2024 N-type Shipment Proportion: 90%

*Source: Management forecasts

Authoritative Certification

- AAA Rating: Awarded the highest rating of 3A by PV ModuleTech for bankability
- Awarded the TÜV "Quality China" award for five consecutive years for monocrystalline modules with superior power generation simulation
- Ranked "Top Performance" by PVEL/DNV GL PV Module Reliability Scorecard for ten consecutive years
- Awarded "Top PV Performance" by EUPD Research in Europe, Australia, South Africa and Middle East and North Africa" by EUPD Research
- Awarded the AAA Customer Satisfaction Benchmark Grade and National Quality Benchmark by National Market Credit Quality









JinkoSolar Ranks AAA-Rating in the Latest PV ModuleTech

Bankability Ratings Report

Q2,2024



















GREEN BUILDER Sustainability Awards 2021

















Technology Awards

- Top 100 New Energy Industry Patents
- Top 500 Private Companies in R&D Investment and Invention Patents
- MIT-Global Top 50 Smart Companies
- Forbes China Top 50 Innovative Companies
- Green and Efficient TOPCon Technology Award
- National Ministry of Industry and Information Technology "Green Design Products Public Announcement" list

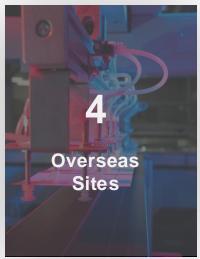


⁰⁴ Globalization



Global Manufacturing and Global R&D











Global Manufacturing and Global R&D

Global Manufacturing



JinkoSolar is the first company in the industry to establish "vertically integrated" production capacity from wafer, cell and module production, with over 10 global manufacturing facilities across China, the US, Southeast Asia, and the Middle East.

Florida, USA JinkoSolar U.S. Manufacturing Facility

Global R&D



JinkoSolar has global R&D capabilities, with R&D centers in Haining, Zhejiang Province, Shangrao, Jiangxi Province, Leshan, Sichuan Province, Xining, Malaysia and Vietnam, as well as joint R&D labs in Singapore and Australia.





Global Diversified Supply Chain

The Next Level of Overseas Expansion

Global Manufacturing 2.0: Joint Venture with PIF and VI to Build the Largest Overseas N-type Factory in Saudi Arabia



Strong Alliance

Local Manufacturing

Green and Low Carbon

- Global Top 5 Sovereign Funds (PIF) +Over 50% Market Share in the Middle East (Jinko)
- Chinese technology + Middle East capital; from Capacity Output to Management Output
- 10GW Full Value Chain Localization, Ensuring Local Supply and Reaching European and American Markets
- Increasing Localization Procurement Thresholds Annually, Policy Support for Local Production
- Project Launched in NEOM's OXAGON City, Achieving High Proportion of Green Electricity Supply
- Energy Cost Advantages, Aiding the Transition of Traditional Fossil Fuel Nations



Florida, USA 2GW Modules Fully Operational in H1 Southeast Asia Factory

Adapting Policies Flexibly to Reduce Risks and Control Costs



Shanxi, China

Phase I Crystal Pulling and Module Workshop Production and Operations;

Phase II Steadily Advancing, Expected to Start Production in Q4



Global Market Share

JinkoSolar's market share on major markets

60%	30%	25%	18%
Saudi Arabia	Netherlands	Argentina	China
42%	30%	24%	18%
Poland	Columbia	Germany	Brazil
40%	30%	20%	18% (distribution
UAE	Egypt	Morocco	Australia
39%	30%	20%	6%
Israel	Oman	Japan	USA
35%	25%	20%	20%
Thailand	Italy	Chile	India





120+

120+
Marketing
Branches

35+
Global
Service
Centers



05 **ESG**



Responsible Manufacturer

Carbon Footprint

RE100

*CLIMATE GROUP

°CLIMATE GROUP

We've set a goal to reach our sciencebased emissions reduction target:

- Low-carbon design
- EP100 Energy efficiency
- RE100 Renewable electricity
- Direct emissions abatement
- Advocating for strong climate policies

Traceability

We enhanced the performance of traceability systems and improved information transparency to map the supply chain.

- · Integrated production base
- Information-based traceability system
- Third-party independent audit system
- · Professional traceability team

UNGC



We are aligned with UN Guiding
Principles on business and operation

- Uphold labor and human rights
- Responsible labor recruitment
- · Responsible material sourcing
- Health, safety & wellness programs
- Supplier engagement & management

Responding to Climate Change

- Joined RE100 and pledge to use 100% renewable energy by 2030.
- Joined EP100 and committed to implement an Energy Management system across all operations.
- Join the Science-based Carbon Targets Initiative and commit to "net zero emissions" by 2050
- · Conducted ISO14064 greenhouse gas inventory
- Many products passed the carbon footprint certification in France, Italy and other countries
- Awarded the title of "Photovoltaic Recovery and Recycling" demonstration in China's green supply chain





Zero Carbon Manufacturing

Factory Carbon Management

Eight of JinkoSolar in-house manufacturing facilities (module – cell – wafer - ingot) acquired **Zero Carbon Factory Certificate from TUV Rheinland**, leading the PV industry.

- Voluntary commitment to energy saving and emission reduction
- Basis for downstream manufacturers and end customer to make low-carbon choices



Crystal pulling (Qinghai)



Wafer Cut (Shangrao WS2/4)



Solar Cell (Chuxiong)



Solar Cell (Anhui)



Solar Cell (Zhejiang)

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Module Assembly (Zhejiang)



Module Assembly

(Shangrao WS8 and Shangrao WS7)







Sustainable Supply Chain

- Strict control over supplier selection, management and production processes
- Proactively control and trace the source of supply chain materials
- Urge partners to strictly implement low-carbon production
- · Prevention of violations
- Drive sustainable development of the industry in multiple dimensions, including manufacturing and corporate cooperation





Attracting Global Talent

- Provide a safe and healthy working environment
- · Implement various talent incentives such as partners
- · Diversified employee benefits and perks
- 38% local senior manager
- Corporate culture of fairness, responsibility and pragmatism











Corporate Social Responsibility

























Contributed 20 million RMB to

Qingmiao Primary

School in Hengfeng

Country and set up a 10 million

RMB Qingmiao Scholarship at Yuhuan Middle











Fighting

COVID-19

Donated 12













PV Lights Up The World

Modules donated modules for the installation of PV power plants, bringing clean energy low-

communities

around the world.







ESG Awards

- · First Chinese PV company to have all three targets validated by the SBTi
- JinkoSolar received the highest score of 65/100 in the EcoVadis 2023
 Environmental and Social Performance Rating, ranking the highest among
 all Chinese companies in the same industry evaluated
- 2024 Forbes China ESG Top 50
- 2024 China ESG Impact List
- 2023 Forbes Top 50 Sustainable Companies in China
- 2022 China Listed Companies Association "Excellent ESG Practice Case of Listed Companies"
- 2022 Ernst & Young Sustainability Awards 2022 Outstanding Enterprise of the Year
- 2022 Finalist of ESG Innovation Experiment of the Year by Wall Street Insight





⁰⁶ Corporate Strategy



Product Strategy

Efficient, Reliable, Intelligent







Tiger Neo Series

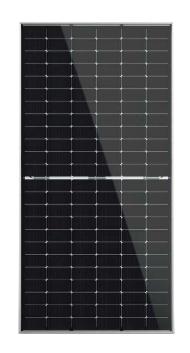


JKMxxxN- 66HL4M-BDV	JKMxxxN- 66HL4M-(V)	JKMxxxN-78HL4- BDV	JKMxxxN-72HL4-(V)	JKMxxxN-72HL4- BDV	JKMxxxN-60HL4-(V)	JKMxxxN-54HL4R- (V)	JKMxxxN-54HL4R- B	JKMxxxN- 54HL4R-BDB
610-625W	615-630W	630-640W	590-600W	585-595W	485-495W	450-460 W	445-455W	440-450W
2382*1134mm	2382*1134mm	2465*1134 mm	2278*1134 mm	2278*1134 mm	1906*1134mm	1762*1134mm	1762*1134mm	1762*1134mm
22.58-23.14%	22.77-23.32%	22.54~22.90%	22.84%~23.23%	22.65%~23.03%	22.44%~22.90%	22.52%~23.02%	22.27%~22.77%	22.02%~22.52%
66P	66P	78P	72P	72P	60P	54P	54P	54P
12 yrs	12 yrs	12 yrs	12 yrs	12 yrs	12 years	15 yrs	25 yrs	25 years
Bifacial	Monofacial	Bifacial	Monofacial	Bifacial	Monofacial	Monofacial	Mono All-Black	Bifacial Transparent-Black



N-type TOPCon Modules

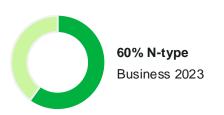








N-type Era





JinkoSolar has set an industry benchmark in N-type technology, process, cost, yield, production capacity and brand popularity, with **JinkoSolar's** N-type module market share exceeding 25%.

The market share of N-type cells is expected to accelerate, with the market share of N-type cells expected to reach 25% / 70% in 2023/2024, and the business share of N-type cells in JinkoSolar will reach 60% in 2023 and 90% in 2024.





Energy Storage Solutions

Self-developed liquid-cooled energy storage system

JinkoSolar proposes "safe and smart energy storage", using its self-developed liquid-cooled thermal management system to break the traditional energy storage dilemma of low efficiency, high risk and difficult operation and maintenance, and has designed and manufactured the SunTera large-scale energy storage system and SunGiga commercial and industrial liquid-cooled energy storage system, which are "highly sensitive, high perception, self-management, self-judgment and self-decision".





Energy Storage Systems

100+ successful projects









Long-Term Growth Strategy

Technical Innovation

Building long-term leadership of technology and product

- Continue to increase R&D investment
- Improve the layout of technical and ecological chain
- Strengthen the patent layout
- Accelerating the mass production of cutting-edge achievements

High-efficiency Management

Building efficient systematic management capabilities

- · Adhere to professional Management
- Maintaining an enterprising culture with focus on strong execution and hard work
- Continuously optimize the management mechanism with efficient coordination and clear responsibilities
- Accelerating the comprehensive application of automation, intelligentization and informatization

Globalization

Building a strong global resource allocation capability

- · Adhere to the globalization strategy
- · Maintain a keen insight into the market
- Continuous and rational promotion of global marketing and production layout
- Comprehensive construction of supply chain partnerships



Thank you



Jinko Solar Co., Ltd.

