



2023 Climate Action White Paper

Jinko Solar Co., Ltd.



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About the Report

With reference to mainstream standards for climate-related disclosures, Jinko Solar Co., Ltd. (referred to as "Jinko Solar", "the Company" or "we") prepares the report to explain the Company's efforts in addressing climate change in terms of governance, strategy, risk management, as well as metrics and targets.

As Jinko Solar's first climate action white paper, this report documents the Company's approaches to climate risk management and performance on this front. This effort enables us to discuss addressing climate change with stakeholders, demonstrating our ambition in addressing climate change.

Reporting Period

Disclosed information in the report mainly covers the time range from January 1, 2023 to December 31, 2023. Considering the timeliness and continuity of information disclosure, some contents back to the past or extend to June 2024.

Scope of the Report

Disclosed information in the report covers Jinko Solar Co., Ltd., and our subsidiaries. Statistical boundaries of performance data disclosed in this report, unless otherwise specified, are consistent with that in the financial report for the year ended December 31, 2023.

Data Description

The data in the report are derived from the Company's official documents, statistical reports, and financial reports, as well as other climate-related information after the Company's statistics, summary and audit. Monetary amounts in the report are recorded in RMB, unless otherwise specified.

Forward-looking Statements

The report contains forward-looking statements, which can be identified by wordings such as "will", "expect", "future" and similar wordings. Such statements involve inherent risks and uncertainties that could cause actual results to differ from those stated in the forward-looking statements. Forward-looking statements herein are assumed, estimated or predicted on the basis of information during the report preparation period. Jinko Solar disclaims any obligation to update any changes to such statements from time to time, unless required by laws and regulations.

Compilation Basis

IFRS S2 Climate-related Disclosures ("IFRS S2") issued by the International Sustainability Standards Board ("ISSB")

Recommendations of the Task Force on Climate-related Financial Disclosures ("TCFD Recommendations") issued by the Task Force on Climate-related Financial Disclosures ("TCFD")

Climate Change Questionnaire of Carbon Disclosure Project ("CDP")

Report Acquisition

This report is published in Simplified Chinese and English version. If there is any discrepancy between the two versions, the Simplified Chinese version shall prevail. The electronic form is available on the Company's official website (www.jinkosolar.com) or via email (ESG@jinkosolar.com). If you have any suggestions, please feel free to contact us via the above channels.

Message from the Chairman



FY2023 stands as a pivotal milestone in Jinko Solar's journey. This year, we became the first PV company in the industry to top annual global module sales for the fifth time and the first to exceed 210GW cumulative module shipments. This milestone translates to a remarkable reality: one in every eight solar modules worldwide originates from Jinko Solar, contributing to a greener planet where every eighth ton of mitigated carbon dioxide equivalent bears our footprint. Furthermore, we are also the first PV company to have all three major emission reduction targets approved by Science Based Targets initiative (SBTi), the first to have a "wafer - cell - module" fully certified "Zero-Carbon Factory" production chain, and the first to launch the modules named Neo Green manufactured by 100% renewable energy powered factory. Parallel to our environmental strides, Jinko Solar witnessed a remarkable financial surge in 2023, with net profits soaring over 150% compared to the previous year. In 2023, we achieved high-speed, healthy and elegant growth, in both economic value as well as social value.

It is often presupposed that the innate profit-driven nature of business inherently conflicts with ESG objectives. However, Jinko Solar, through the visionary outlook, innovative strategies, and audacious implementations, has demonstrated that the dual pursuits can not only coexist harmoniously but also enhance one another, fostering a complementary and synergistic relationship. Particularly for us as a renewable energy company, our core operations represent the pinnacle of ESG commitment to the planet and humanity. If we operate in a responsible way, producing

solar with solar, and manufacturing green with green, it will create a tremendous force for good in business. Jinko Solar's vanguard concepts and actions in sustainable development have trailblazed a path for the industry, serving as a beacon of inspiration and offering a blueprint for other corporations seeking to excel in their social responsibility endeavors.

Although Jinko Solar's journey in pioneering sustainable social value creation may be nascent, our steps are firmly grounded, geared towards enduring impact, and intricately intertwined with the welfare of society, the harmony of nature, and the well-being of humanity. As societal anxiety emerges from intensifying competition, and the pursuit of new quality productive forces alongside carbon peak and carbon neutrality targets becomes imperative, with clean energy and equitable access turning into tangible prospects, Jinko Solar stands at the convergence of technological and societal progress. We become a force for construction, innovation, co-creation and co-benefit.

Technology is an ability, and driving positive change is a choice. To find solutions for sustainable development is also to find innovative scenarios for our own development, which is a pleasant creative process for Jinko Solar.

A planet powered by 100% solar energy is clearly visible in the way we expect.

Chairman of Jinko Solar
David Lee

01

About Jinko Solar

Jinko 晶科能源

➤ Company Introduction

➤ Business Layout

➤ Report Highlights

➤ Climate Strategy Matrix



Company Introduction

Jinko Solar Co., Ltd. (stock code: 688223.SH) is a globally renowned and highly innovative photovoltaic and energy storage technology company. Embracing the mission of "optimize the energy portfolio and take responsibility for enabling a sustainable future", the Company strategically deploys core segments of the photovoltaic industry chain. The Company focuses on integrated R&D, manufacturing of photovoltaic products, as well as providing comprehensive clean energy solutions, leading in sales in the global mainstream photovoltaic markets. Jinko Solar has maintained as the global leader in module shipments for five years. By the end of the first quarter of 2024, the accumulated shipments of modules of Jinko Solar had exceeded 230GW. Jinko Solar continuously expands the diversified application scenarios of photovoltaic technology, including energy storage systems (ESS), building integrated photovoltaics (BIPV), and other fields, striving to create a clean energy ecosystem.



Mission

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



Vision

Provide a one-stop solution for clean energy and become an industry leader.



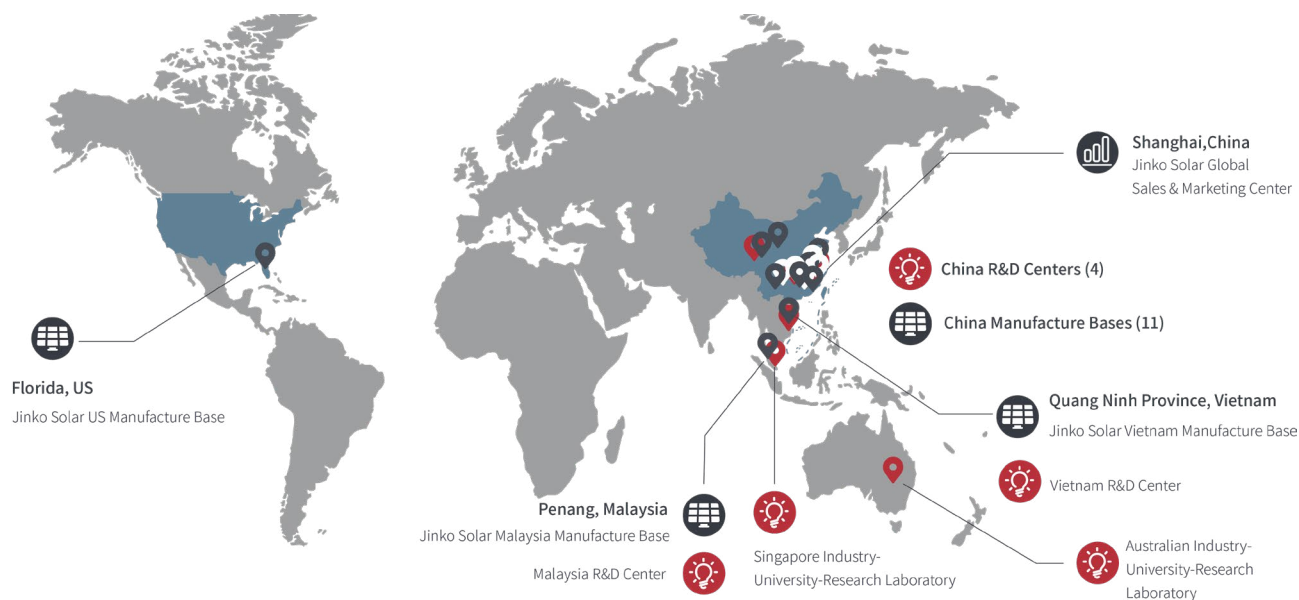
Core Values

Customer-centered
Contributor-oriented
Continuous innovation against benchmarks
Adherence to practicability



Business Layout

Jinko Solar continues to expand global production, logistics, sales, and service networks and pioneers the "vertical integration" production capacity from silicon wafer and cell to module production in the industry. The Company owns 14 globalized manufacturing bases in China, Malaysia, Vietnam, and the United States. By the end of 2023, our products had served over 190 countries and regions worldwide, catering to more than 3,000 customers. By the end of 2024, the Company's monocrystalline silicon wafer, cell and module production capacity will reach 120GW, 110GW and 130GW respectively, with the N-type production capacity forecasted to exceed 100GW, leading the industry in scale.



Global Manufacturing

Jinko Solar pioneers the "vertical integration" production capacity from silicon wafer and cell to module production in the industry. The Company owns 14 globalized manufacturing bases in China, Malaysia, Vietnam, and the United States.



Global R&D

Jinko Solar has global R&D capabilities, with R&D centers in Shangrao, Jiangxi Province, Haining, Zhejiang Province, Leshan, Sichuan Province, Xining, Qinghai Province, Malaysia and Vietnam, as well as industry-university-research joint laboratories in Singapore and Australia.

14

Manufacturing Bases

3

Overseas Manufacturing Bases

57,000+

Global Staff

10,000+

Overseas Staff

8

R&D Centers

4

Overseas R&D Centers

Report Highlights

Performance Highlights

Empower Global Decarbonization Transition

Accumulated global shipments of modules

230+ GW¹

Ranking No.1 in global module shipments

5 times

Products exported to countries and regions

190+

Delivered the energy storage systems

100+

Clean Technology Innovation and Development

Number of accumulated patents granted

3,544

2023 R&D investment

RMB **6.899** billion

2023 authorized patents

2,115

Number of R&D personnel

2,320

Low-carbon Transition with Wise Operations

The first

PV company to have a "Wafer - Cell - Module" fully certified "Zero-Carbon Factory" production chain²

The first

PV company to launch Neo Green Modules powered by 100% renewable energy³

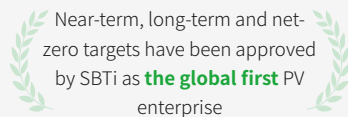
Electricity generated by the rooftop PV system of the bases in 2023

199,859.07 MWh

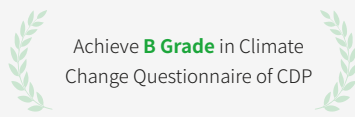
Electricity savings through technical renovation projects in 2023

135,639.58 MWh¹ The data were by the end of the first quarter of 2024.³ The series products were launched in the first quarter of 2024.

Climate-related Recognitions and Honors



Near-term, long-term and net-zero targets have been approved by SBTi as **the global first** PV enterprise



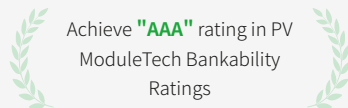
Achieve **B Grade** in Climate Change Questionnaire of CDP



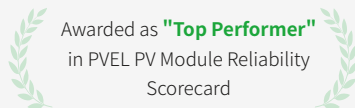
Achieve **Silver Medal** in EcoVadis Sustainability Rating



Achieve **BBB Grade** in MSCI ESG Rating



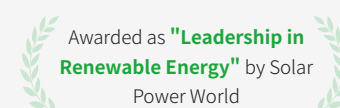
Achieve **"AAA"** rating in PV ModuleTech Bankability Ratings



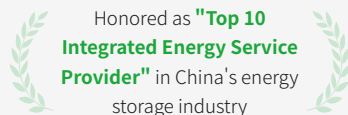
Awarded as **"Top Performer"** in PVEL PV Module Reliability Scorecard



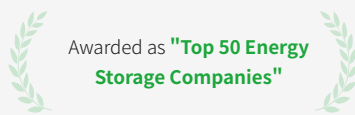
Honored as **"Top Brand PV"** by EUPD Research



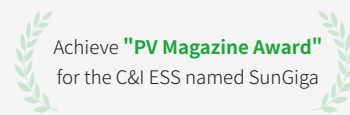
Awarded as **"Leadership in Renewable Energy"** by Solar Power World



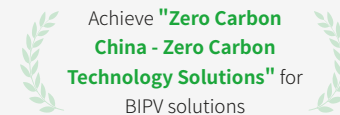
Honored as **"Top 10 Integrated Energy Service Provider"** in China's energy storage industry



Awarded as **"Top 50 Energy Storage Companies"**



Achieve **"PV Magazine Award"** for the C&I ESS named SunGiga



Achieve **"Zero Carbon China - Zero Carbon Technology Solutions"** for BIPV solutions

Climate Strategy Matrix

Developing renewable energy is one of the core strategies to address climate change. As the first PV company to join RE100 and EP100, Jinko Solar always embraces the mission of "optimize the energy portfolio and take responsibility for enabling a sustainable future" and the vision of "provide a one-stop solution for clean energy and become an industry leader". The Company continues to deliver one-stop clean energy solutions to the world.

On this basis, we take the initiative to sort out the intrinsic link between our business scenarios and the contribution to global low-carbon energy transition. We formulate a climate strategy matrix with our own and industry characteristics, in an aspiration to impart our insights of driving global low-carbon energy transition to more stakeholders.

Jinko Solar promotes emission reduction throughout the PV industry chain by means of green operations, and develops green products and services, including modules, ESS and BIPV solutions. Moreover, we join hands with stakeholders to speed up the net-zero progress across the globe and to facilitate a more inclusive, just and resilient transition by virtue of one-stop cutting-edge clean energy solutions. Besides, we actively advance the digitalization process, empowering the development of the climate risk management system, and accelerating the implementation of climate strategy.

Climate Strategy Matrix of Jinko Solar



02

Improving Climate Governance

- Climate Governance Framework
- Climate Governance Development
- Integration of Digital Economy and Real Economy

Climate Governance Framework

Jinko Solar has established a climate governance framework with the Board of Directors as its core. We are committed to promoting the in-depth integration of climate governance and the Company's business philosophy and practice through a top-down governance structure, to respond to stakeholders' concerns and expectations on climate-related issues with concrete actions.



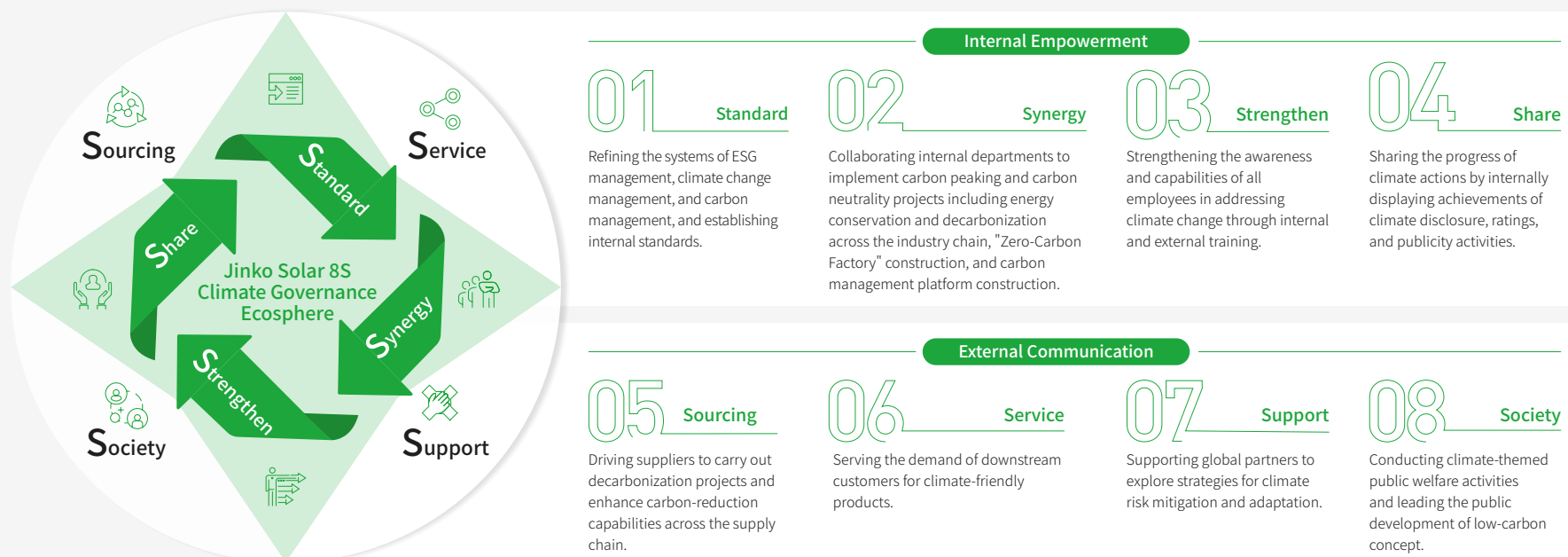
In April 2024, the Board of Directors has approved the *Working Rules of the Strategy and Sustainable Development Committee*, which further clarified the Committee's responsibilities in ESG management (including the management of climate-related issues) and continued to promote the in-depth and solid ESG governance. In addition, the Strategy and Sustainable Development Committee provided recommendations to the Board of Directors on ESG disclosures (including climate-related disclosures) and facilitated the Board of Directors approval process. This enhances the Board of Directors' involvement and supervision in ESG management (including the management of climate-related issues).

The Company has incorporated climate-related performance indicators (such as the percentage of renewable energy consumption) into the annual assessment system for senior executives, energy and equipment positions, and the ESG management team. These indicators are linked to performance assessment to ensure the efficient achievement of climate governance objectives.

Climate Governance Development

Jinko Solar continuously strengthens internal climate governance, enhances the development of climate risk management system, collaborates with internal departments to actively innovate in measures to address climate change, and empowers all members to enhance climate governance capabilities. We communicate the progress of climate-related issue management and climate actions by internally displaying achievements of climate disclosure, ratings and publicity activities. While enhancing internal capabilities, we continue to explore practical approaches to external communication of climate governance experience. We leverage our influence to engage external stakeholders to jointly address the challenges of climate change, making contributions to the sustainable development of the industry ecosystem and to the high-quality development of the global economy and industry.

Climate Governance Development of Jinko Solar



Internal Empowerment

Jinko Solar has devoted to internal empowerment with a standardized and efficient climate change governance system. The Company has comprehensively advanced climate change management capabilities through "Standard, Synergy, Strengthen, and Share". While stimulating internal organizational potential and vitality, we have mobilized all employees to actively take climate actions.



Standard

Jinko Solar has continuously standardized the development of systems for energy and greenhouse gas (GHG) management. We have formulated the Energy Management Manual, the *Energy Operation Control Procedure*, the *Regulations on the Verification and Management of Greenhouse Gas Emission* and other internal policies, ensuring further standardization of the Company's measures for managing energy usage and GHG emission, thus forming a comprehensive top-level management mechanism.

In addition, we have explored to establish an Internal Carbon Pricing⁴ mechanism to internalize the costs of emission by referring to the market trends of green electricity prices and carbon prices. This mechanism has oriented departments to more environmental-friendly operations, more efficient energy consumption and wider application of clean energy technologies.

Synergy

Jinko Solar has collaborated with internal departments to systematically carry out climate change management. The Company has established a dedicated energy and GHG management team, supported by a specialized budget, to promote energy management and GHG accounting. By the end of 2023, 64.29% of bases in operations had obtained the ISO 50001 Energy Management System Certification, and 78.57% had completed the ISO 14064 GHG accounting. In addition, we have been accounting for GHG emission throughout the value chain (Scope 1, 2 & 3) on an annual basis ever since 2022. By analyzing emission data in a timely and comprehensive manner, we hope to effectively identify more opportunities for emission reduction.

The Company has actively set GHG emission reduction targets and has systematically explored the effective decarbonization paths from aspects such as "upstream measures: emission reduction at the source" and "downstream measures: emission control in the process". To efficiently promote energy-saving and carbon-reduction, the Company has formulated annual targets and has continuously improved the energy utilization efficiency and the percentage of renewable energy consumption by optimizing the energy portfolio, exploring energy conservation potential and strengthening intelligent control. These efforts ensure the annual targets have been achieved as scheduled.

Taking emission reduction as an opportunity, the Company has collaborated with internal departments to launch key energy-saving and carbon-reduction initiatives such as energy-saving technological transformation, carbon management platform construction, and "Zero-Carbon Factory" Certification. These actions have stimulated the enthusiasm of involved departments and relevant personnel to participate in emission reduction activities, making energy-saving and carbon-reduction activities a joint action and value within the company.

⁴The Internal Carbon Pricing (ICP) refers to the practice where a company assigns financial values to GHG emission within internal policy analysis. This allows the emission to be measured as financial indicators, thus influencing the decision-making process.

Strengthen

Jinko Solar has integrated the concept of addressing climate change into all aspects of business operations, continuously improving the awareness and capability of senior executives and both full-time and part-time employees. The Company has periodically invited external experts to deliver specialized training on climate change for senior executives and both full-time and part-time employees responsible for climate-related issues. The trainings cover topics such as climate strategy and action paths, helps relevant personnel to develop a sense of climate strategy and optimize their insights into climate-related issues. In 2023, the Company has conducted 6 training sessions on climate change for senior executives, and both full-time and part-time employees responsible for climate-related issues.

Jinko Solar has strived to mobilize all employees to participate in empowerment programs, to foster a deep-rooted concept of low-carbon development, and to cultivate professionals in addressing climate change. The Company has invited experts to conduct a series of specialized training on climate change for all employees. The training covers topics such as GHG accounting, "Zero-carbon Factory" construction standards and application requirements, green and sustainable supply chain, climate disclosure guidelines, climate change ratings, etc. In 2023, the Company has conducted 5 training sessions on climate change for all employees, with more than 700 participants. We have uploaded these training sessions to the platform of E-learning Jinko Talent Online, accessible to all employees, encouraging everyone to learn.



Share

Jinko Solar has established a regular disclosure mechanism for ESG and climate-related information. We have communicated the progress of climate-related issue management and climate actions by internally displaying achievements of climate actions. Through ESG and climate disclosure, ratings, and publicity activities, we have comprehensively presented our philosophy, management methods, and practical results in addressing ESG and climate risks to internal stakeholders. We hope to mobilize more internal stakeholders to participate in climate actions, and contribute suggestions for the improvement of the climate governance system and the implementation of climate actions.

External Communication

In the journey to addressing climate change and achieving sustainable development, Jinko Solar has extended focus beyond internal management to encompass the wider industry ecosystem. We have dedicated to conveying our philosophy and practical experiences to a more extensive audience, influencing and driving more stakeholders to contribute to climate risk mitigation and adaptation and green development.



Sourcing

Jinko Solar has committed to fostering a sustainable supply chain through empowerment initiatives including on-site surveys, remote consultations, and specialized training to deepen suppliers' knowledge of the identification of emission source, methods for GHG data collection and accounting, product lifecycle assessments, etc. In 2023, the Company has upgraded the "Supply Chain GHG Emission Management Enablement Program", reaching out to 73 suppliers with online training and emission data collection. Moreover, we have visited suppliers of 3 key categories for pilot emission reduction to gain insights into the suppliers' intentions for reducing emission, their percentage of renewable energy consumption, and the structure of their raw materials. Additionally, we have provided on-site guidance support for suppliers' emission reduction actions.



Service

Jinko Solar has continuously explored efficient strategies for carbon footprint reduction during operations and has integrated low-carbon requirements into product lifecycle management. By leveraging innovative PV technologies and reliable products, we have provided global customers with cost-effective, eco-friendly, and feasible clean energy solutions. Meanwhile, we have engaged in efficient communication with customers, promptly responding to their inquiries about product sustainability to help them better understand the intrinsic sustainable value of the products.



Support

We have actively leveraged our strengths and participated in alliances, forums, summits and other major international activities, enhancing communication and collaboration with partners in the ecosystem, and jointly contributing to the widespread application of renewable energy. The Company has been invited to high-level activities including the World Economic Forum's Annual Meeting of the New Champions (Summer Davos Forum), the "B&R" Forum for International Cooperation (BRF), the United Nations Framework Convention on Climate Change (UNFCCC), etc., sharing insights and practices on zero-carbon development and PV industry cooperation in decarbonization and calling on global partners to take actions towards a just and affordable energy transition.

— June 2023

Jinko Solar has been invited to the World Economic Forum's 14th Annual Meeting of the New Champions (Summer Davos Forum) to engage in discussions on the development trends of new energy with Chinese Premier Li Qiang and Vietnamese Prime Minister. The Company has participated in important sub-forums of the Summer Davos Forum including "Supporting Global Climate Action with Asian Power", "Sustainability Reporting: Best Practices from Leading Companies", etc.



July 2023

Jinko Solar has officially announced to join the International Renewable Energy Agency (IRENA) Coalition for Action to engage in a more closely collaboration with international renewable energy communities.



August 2023

Jinko Solar has been appointed as a co-chair of the Tech, Innovation, and R&D Taskforce of B20 India, which has commenced work on a series of discussions and proposals related to policy recommendations required to promote and accelerate technology, innovation and R&D across all industry sectors and identify strategies for mass adoption. We have submitted such proposals to the Group of 20 (G20) leaders at the B20 India summit.



October 2023

Jinko Solar has been invited to the International Energy Forum (IEF), where we have engaged in a in-depth discussions with Saudi Arabia Deputy Prime Minister of Energy, Nasser Al-Qahtani, on topics including green transformation of the energy structure and the deepening of cooperation in the field.



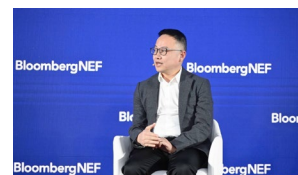
October 2023

Jinko Solar, as the only PV company, has delivered a speech at the Thematic Forum on Promoting Unimpeded Trade Cooperation Along the "B&R" of the "B&R" Forum for International Cooperation (BRF), sharing the experience of China's PV company.



November 2023

Jinko Solar has been invited to the Bloomberg New Energy Finance (BNEF) Summit Shanghai, offering suggestions on how to promote the prosperity and sustainable development of the future energy industry.



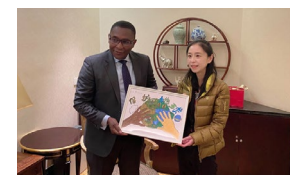
November to December 2023

Jinko Solar has been invited to the 28th Conference of the Parties (COP28) to the United Nations Framework Conference on Climate Change (UNFCCC) kicked off in Dubai, UAE, participating in multiple important conferences.



March 2024

Ms. Dany Qian, Vice President of Jinko Solar, has held an important meeting with Mr. Selwin Hart, Special Adviser to the United Nations Secretary-General on Climate Action, to engage in in-depth discussions on issues such as actions taken by China's energy companies to address climate change.



May 2024

Mr. David Lee, Chairman of Jinko Solar, has accompanied Chinese President Xi Jinping to attend the 6th meeting of the China-France Business Council held in Paris on the afternoon of May 6, 2024 local time, contributing to the promotion of the exchange and cooperation of new energy between China and Europe.



Society

Jinko Solar has actively publicized the concepts of climate change and environmental protection, engaging community partners to implement a series of environmental education and climate-themed public welfare activities. We hope to mobilize more stakeholders to address climate change and protect environment and work together to build a sustainable future.



Jinko Solar Has Organized the "World Earth Day" Theme Activity

In April 2023, Jinko Solar has collaborated with external partners to conduct the "United Under the Blue Sky, Caring for Each Other" themed activities in celebration of the World Earth Day. Through a series of activities including mini-classes on environmental protection, creating posters for the World Earth Day, participating in the activity of "Jinko Night: Talking Energy with the Future", and engaging in charity auctions, the awareness of environmental protection was enhanced for the students and teachers of Qingmiao Experimental Primary School in Hengfeng County, Jiangxi Province in an enjoyable and educational way. During the charity auction segment, the painting "Green Earth" by a student has been collected by the United Nations Global Compact (UNGC), urging more group to pay attention to environmental protection and public welfare.



Conducting Mini-Class on Environmental Protection



Conducting Environmental Protection Activity



Creating Poster for the World Earth Day



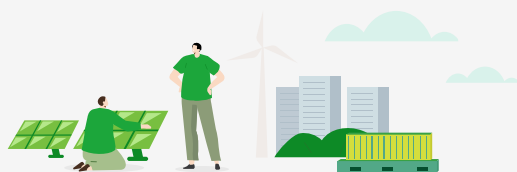
Exchanging Environmental Protection Knowledge

Integration of Digital Economy and Real Economy

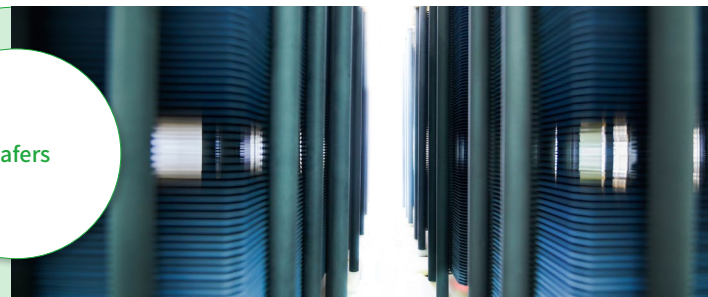
In response to the fast-changing global economic landscape, digital transformation and sustainable development have become crucial for the survival and growth of enterprises. Only by embracing changes and integrating sustainability into business strategies, can companies maintain a competitive edge in the future. In the PV industry, the real economy is deeply integrating with the digital economy, with digital technologies such as artificial intelligence (AI), the Internet of Things (IoT), and blockchain accelerating their integration into corporate production and operations. Many PV companies are actively innovating digital solutions to achieve more efficient, intelligent, and eco-friendly production, operations, and management, thereby creating new quality productive forces in the industry.

Jinko Solar views digital transformation as the future direction of the PV industry and an essential tool for enterprises to mitigate risks and gain competitive advantages. The Company vigorously promotes digital strategy, continues to increase investment in digitalization, and explores the construction of future factories with new-generation information technologies (NGIT), including artificial intelligence (AI), big data, digital twins (DT), etc., to create a smart PV industrial system across the entire industry chain. The Company actively promotes the deep integration of intelligent production lines with digitalization, adopts smart manufacturing models for digital workshops, establishes a full set of digital production platforms from R&D to production and products, to achieve efficient internal lean, informatized, and intelligent control, and efficient external supply chain collaboration and lead the development of high-level intelligent manufacturing. Through digital empowerment, it is possible to effectively reduce product quality losses and energy resource waste in production and operations, while also improving production efficiency and reducing long-term operating costs.

Jinko Solar is also actively exploring effective strategies to combine GHG management with digital strategy, using digital tools to track and quantify GHG emission generated in production and operations. In 2023, the Company has initiated the construction of online carbon management platform, which has been put on trial in the first quarter of 2024, aiming to achieve digitalization and standardization of the GHG management, to capture and analyze emission data more accurately and timely, identify key emission reduction scenarios, and promote the implementation of emission reduction actions.



Wafers



Cells



Modules



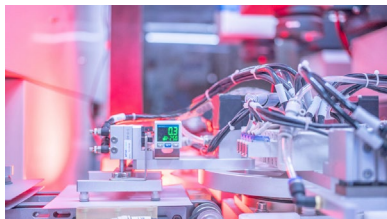
Jinko Solar's Intelligent Stereoscopic Warehouse Has Been Put into Operations

In March 2024, Jinko Solar's first intelligent stereoscopic warehouse, built based on the goals of digital and intelligent system construction, has been officially put into operations in Haining, Zhejiang Province. The completion of this intelligent stereoscopic warehouse marks Jinko Solar's warehouse management taking a leading position in the industry and also helps to achieve green and low-carbon development through digitalization.

The intelligent stereoscopic warehouse covers a total area of 38,000 square meters, with more than 31,000 storage locations and total storage capacity up to 62,000 containers, capable of a 25-day turnover volume. It efficiently integrates various automated equipment such as rotary tables, converging and diverging conveyor, elevators, circular RGVs, stackers, etc., and is equipped with digital systems such as the SCARM, DTS, WMS, WCS, PPS, etc., creating an intelligent system covering the entire process from production logistics, finished-parts storage, to distribution logistics. With comprehensive digital upgrading, this intelligent stereoscopic warehouse can achieve a 63% increase in labor efficiency and a 79% increase in equipment efficiency compared to traditional warehousing modes, while also contributing to low-carbon and efficient environmental goals.

From the perspective of finished-parts in and out of the warehouse, each key logistics equipment in the intelligent stereoscopic warehouse can achieve full-process automated collaboration, relying on core technologies such as data analysis, to monitor transportation processes and storage status in real-time, ensuring precise docking and intelligent circulation of each link, achieving efficiency improvements across the entire logistic chain, and effectively reducing resource waste. At the same time, the dense storage technology of this intelligent stereoscopic warehouse has been upgraded to maximize space utilization, achieving a 4.6-fold increase in storage efficiency. From the perspective of finished-parts processing, the intelligent stereoscopic warehouse combines big data and IoT technology, through the all-round control of the WMS, to achieve seamless site operation processes, real-time perception, and intelligent scheduling. At the same time, this intelligent stereoscopic warehouse can accurately control the outbound demand of products, ensuring the timeliness of order response, effectively improving logistics efficiency and reducing labor costs.

The official operations of this intelligent stereoscopic warehouse helps Jinko Solar to further build a more efficient, safe, and green intelligent logistics system, achieving the maximization of resource utilization and minimization of waste. It is a leading initiative for the Company to strengthen the integration of digital economy and real economy and create new quality productive forces. In the future, we will continue to deepen the construction of digital systems and accelerate the realization of sustainable development goals.



03

Enhancing Climate Resilience

- Climate Risk and Opportunity Management
- Climate Scenario Analysis
- Climate-related Impact Assessment

Climate Risk and Opportunity Management

According to the *State of the Global Climate 2023* published by the World Meteorological Organization (WMO), the level of GHG in the atmosphere in 2023 has recorded a new high, with the level of atmospheric CO₂ 50% higher than that before the Industrial Revolution. Global sea level rise has reached a record high and keeps accelerating. Sea surface temperature has hit a historical high, and the Antarctic Ocean area covered by ice has shrunk to a record low. Against the backdrop of intensifying risks brought by climate change worldwide, climate risk prevention has become a major concern for many enterprises. Jinko Solar explores feasible ways to include climate risk prevention into the risk management system. We continue to upgrade our risk management system, to improve the management of environmental and climate-related risks.

In the first quarter of 2024, the Company has established the Risk Control and Compliance Center and appointed the CCO, who is fully responsible for identifying and managing compliance risks, developing

risk control policies and processes, monitoring key compliance risk indicators, providing risk analysis and forecasting, and mitigating the impact of risks. Driven by the Risk Control and Compliance Center, the Company continues to optimize the three lines of defense for risk management and control. We take into account climate change-related risks during the development of the risk prevention and control system, to strengthen our climate resilience.

Jinko Solar continuously improves climate risk and opportunity management process, conducts materiality analysis and financial impact assessment of climate risks and opportunities, and develops and escalates key response strategies. The ESG Management Committee regularly reports on the management of climate risks and opportunities to the Strategy and Sustainable Development Committee, which in turn reports to the Board of Directors on this regard. This ensures the in-depth integration of climate risk and opportunity management and our business strategies.

Climate Risks and Opportunities Identification



In accordance with the disclosure recommendations of the IFRS S2, TCFD Recommendations and Climate Change Questionnaire of CDP, we conduct preliminary identification of climate risks and opportunities, including physical risks⁵, transition risks⁶ and climate opportunities⁷. We identify climate risks and opportunities within the industry and along the value chain, and formulate a list of risks and opportunities in accordance with expert advice, database analysis, etc.

Risks and Opportunities Materiality Analysis



Pursuant to internal surveys, climate scenario analysis⁸, industry research and external expert advice, we assess the impact period and materiality level of climate risks and opportunities, and form a matrix accordingly.

Financial Impact Assessment



We assess the potential impact of climate risks and opportunities on Jinko Solar's revenues, costs, and assets by means of internal expert interview, climate scenario analysis, etc.

Development of Response Strategies



Based on the assessment results, we develop measures to address risks and grasp opportunities. The ESG Management Committee pushes forward interdepartmental collaboration to contemplate the impact of climate risks and opportunities. At the same time, the ESG Management Committee formulates and escalates risk response strategies, and takes measures to ensure the strategy implementation.

⁵ Physical risks refer to incident-triggered risks (including floods and other extreme weather conditions) or long-term climate shifts (including long-term high temperatures and heat waves).

⁶ Transition risks refer to risks resulting from the transition to a low-carbon economy, including policy, legal, technological, market and reputational risks.

⁷ Climate opportunities refer to climate-related opportunities created by efforts to mitigate and adapt to climate change for the organization.

⁸ Scenario analysis is a process of identifying and assessing the potential impacts of different scenarios that may occur in the future. As for climate change, scenario analysis enables the organization to explore and consider the impact of climate risk mixes on business, strategy and financial performance in the long run.

Climate Scenario Analysis

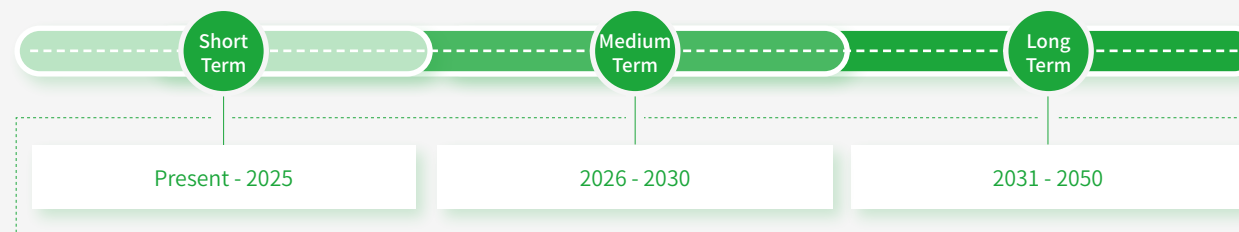
To assess the impact of physical risks, transition risks and climate opportunities on the Company under different climate scenarios, Jinko Solar analyzes these factors under the Net Zero 2050 Scenario and the Current Policies Scenario with reference to the IPCC AR6⁹ and the climate scenario analysis models issued by NGFS¹⁰.

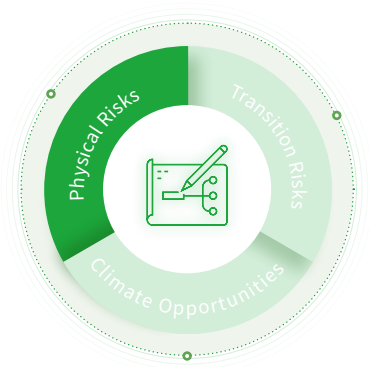
⁹ IPCC AR6 refers to the Sixth Assessment Report (AR6) issued by the Intergovernmental Panel on Climate Change (IPCC).

¹⁰ NGFS, which is short for the Central Banks and Supervisors Network for Greening the Financial System, is an international green network platform composed of central banks and financial regulators, including the People's Bank of China. NGFS works with climate scientists and economists to design NGFS climate scenarios and publishes climate scenario analysis models on its website. The platform provides reference for better understanding of climate change and the evolution of climate policies and technologies in the future.

Scenarios	Net Zero 2050 Scenario	Current Policies Scenario
Temperature rise by the end of the century	<1.5°C	3°C
Description	Limit global warming within 1.5 °C by the end of the century with rigorous climate policies and technological innovation, and achieve global net-zero emission by around 2050.	Emission keeps growing until 2080 with current policies in place, leading to global warming of nearly 3°C and serious physical risks by the end of the century.

Jinko Solar has stipulated the period of the short, medium and long term. Specifically, we define the short term as the period from present to 2025 with reference to the Company's development plans. The medium term spans from 2026 to 2030 with reference to the national goal of carbon peaking by 2030. The long term starts from 2031 to 2050 based on Jinko Solar's SBTi targets of net-zero emission by 2050 in response to the national goal of carbon neutrality by 2060.



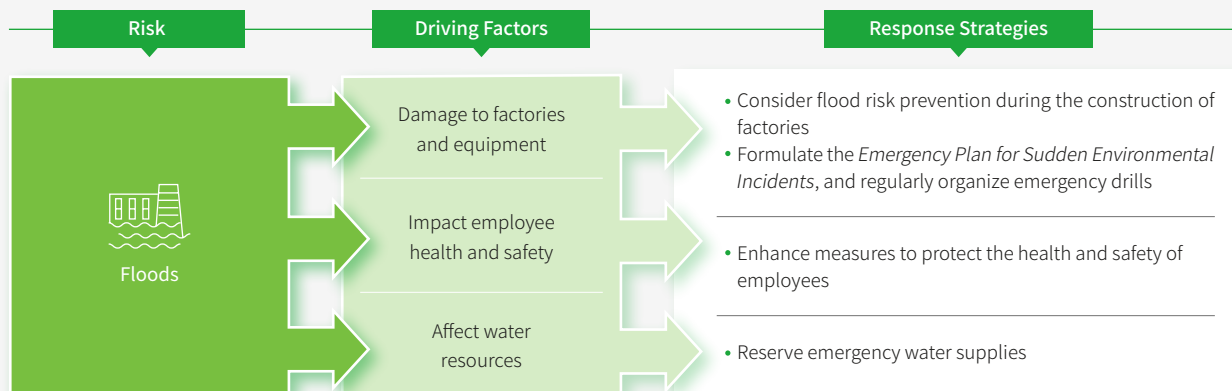


Jinko Solar analyzes physical risks over the short, medium and long term. Jinko Solar takes bases as the main research objects for flood risk analysis. We apply the climate scenario models¹¹ to analyze the potential flood risk of countries, regions and provinces where these bases are located, from present to 2050. In addition, the proportion of these bases in areas with high flood risk is set as a major analysis indicator. On this basis, we conclude that all bases face a generally low flood risk over the short, medium and long term under the Net Zero 2025 Scenario. Under the Current Policies Scenario, all bases face low flood risk over the short and medium term. Some of bases may face certain flood risk in the long term under the Current Policies Scenario. Facing potential flood risk, Jinko Solar has analyzed the driving factors and formulated mitigation and adaptation strategies, including formulating risk prevention measures, conducting emergency plan drills, stockpiling emergency supplies, etc.

¹¹Source: NGFS CA Climate Impact Explorer.

Physical Risk-Floods	Net Zero 2050 Scenario	Current Policies Scenario
Short term (present - 2025)	Low risk	Low risk
Medium term (2026 - 2030)	Low risk	Low risk
Long term (2031 - 2050)	Low risk	Certain flood risk

Impact Pathway



Due to the strategies and efforts made by Jinko Solar in flood risk prevention, the Company faces a low flood risk over the short and medium term. In the long term, flood prevention facilities may accelerate aging and fail over time, and further investment is needed to manage flood risk. In the future, there will be certain technical limitations in the face of increased flood risk. Therefore, Jinko Solar will continue to promote measures and strategies to address flood risk, continuously optimize risk adaptability, and enhance environmental resilience.



Jinko Solar analyzes transition risks over the short, medium and long term with the climate scenario models¹². In carbon price risk¹³ analysis, there is no significant price growth from present to 2050 under the Current Policies Scenario. However, the price per ton of carbon dioxide equivalent will continue to climb from present to 2050 under the Net Zero 2050 Scenario. The price is estimated to increase by 5 to 15 times by 2050¹⁴ under the Net Zero 2050 Scenario.

Based on the forecast of the global carbon price trend, the science-based emission reduction targets set by us, and corresponding emission reduction approaches, we conclude that Jinko Solar faces no significant carbon price risk under the Current Policies Scenario. Under the Net Zero 2050 Scenario, Jinko Solar faces a relatively small expenditure for emission reduction and carbon price in the short term, and the expenditure shows a certain increase in the medium term. If we achieve net-zero emission in the long term, we will only assume the costs for emission reduction without carbon price expenditure by 2050. Facing potential carbon price risk, Jinko Solar has analyzed the driving factors and formulated mitigation and adaptation strategies, including timely follow-up and interpretation of relevant laws and regulations, promoting the digital management of GHG, continuously optimizing the energy structure, etc.

Impact Pathway

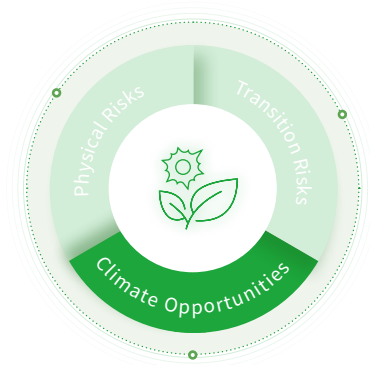
Transition Risk - Carbon Prices	Net Zero 2050 Scenario	Current Policies Scenario
Short term (present - 2025)	Lower costs than that in the medium and long term	No significant risk
Medium term (2026 - 2030)	Higher costs due to the rising of emission reduction costs and carbon price expenditure	No significant risk
Long term (2031 - 2050)	Only assume emission reduction costs without carbon price expenditure due to net-zero emission targets by 2050	No significant risk

Risk	Driving Factors	Response Strategies
 Carbon Prices	Increase costs of GHG emission	Have expert teams in global operations to continuously monitor the latest developments of climate-related laws and regulations
	Increase costs of energy conservation and emission reduction	- Establish a carbon management system, promote the construction of GHG management platform, and regularly account for GHG emission - Carry out rooftop PV power generation projects in eligible bases, increase renewable energy usage, and save energy through technological improvements

¹² Source: NGFS IIASA Scenario Explorer.

¹³ It is assumed that Jinko Solar will join in the carbon market or will be subject to carbon taxes.

¹⁴ Source: International Energy Agency (IEA) and World Bank (WB).



Jinko Solar analyzes climate opportunities over the short, medium and long term with the climate scenario models¹⁵. As for the opportunity analysis of the changes in customer preferences¹⁶, the Company uses the trend of the global installed capacity of solar power generation to measure the future changes in customer preferences for solar power and other energy source. We conclude that the global installed capacity of solar power generation goes upward from present to 2050, with the growth under the Net Zero 2050 Scenario higher than that under the Current Policies Scenario. That is to say, the customer demand for sustainable and eco-friendly products keeps an upward trend from present to 2050, with the growth under the Net Zero 2050 Scenario higher than that under the Current Policies Scenario. Facing potential markets and business opportunities, Jinko Solar has analyzed the driving factors and formulated strategies to grasp the opportunity, including the continuous launch of high-quality products, the increasing of investment in R&D, etc.

¹⁵ Source: NGFS IIASA Scenario Explorer.

¹⁶ Changes in customer preferences refers to the growing customer demand for sustainable and eco-friendly products.

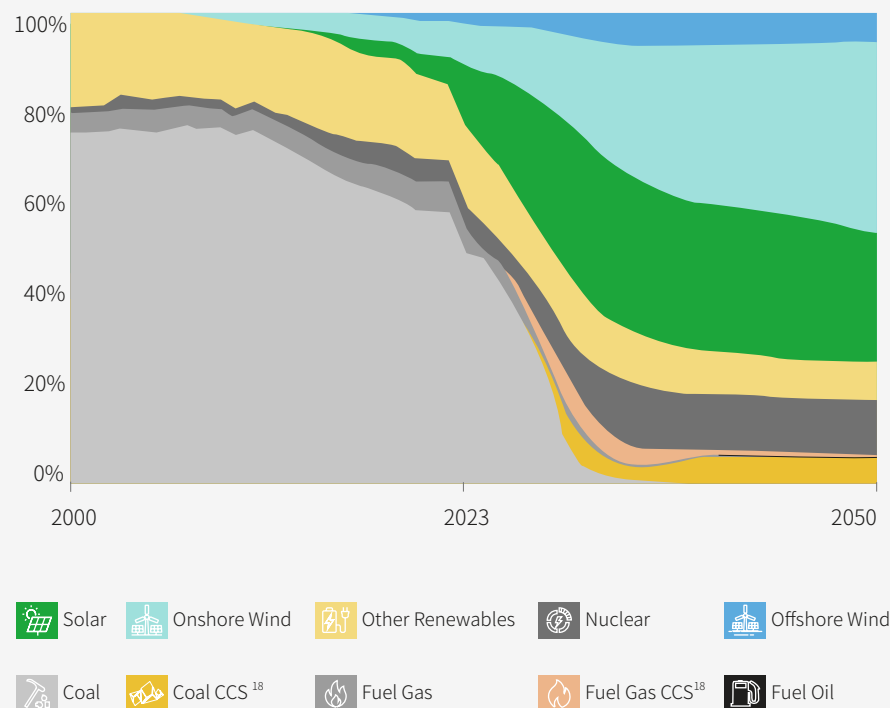
Climate Opportunity - Changes in Customer Preferences	Net Zero 2050 Scenario	Current Policies Scenario
Short term (present - 2025) The global installed capacity of solar power generation is growing annually, reflecting the growing customer demand for sustainable and eco-friendly products		The global installed capacity of solar power generation is growing annually, reflecting the growing customer demand for sustainable and eco-friendly products
Medium term (2026 - 2030) The global installed capacity of solar power generation is growing annually, with the growth under the Net Zero 2050 Scenario higher than that under the Current Policies Scenario, reflecting the growing customer demand for sustainable and eco-friendly products, with the growth under the Net Zero 2050 Scenario higher than that under the Current Policies Scenario		The global installed capacity of solar power generation is growing annually, reflecting the growing customer demand for sustainable and eco-friendly products
Long term (2031 - 2050) The global installed capacity of solar power generation is growing annually, with the growth under the Net Zero 2050 Scenario significantly higher than that under the Current Policies Scenario, reflecting the growing customer demand for sustainable and eco-friendly products, with the growth under the Net Zero 2050 Scenario significantly higher than that under the Current Policies Scenario		The global installed capacity of solar power generation is growing annually, reflecting the growing customer demand for sustainable and eco-friendly products

Impact Pathway



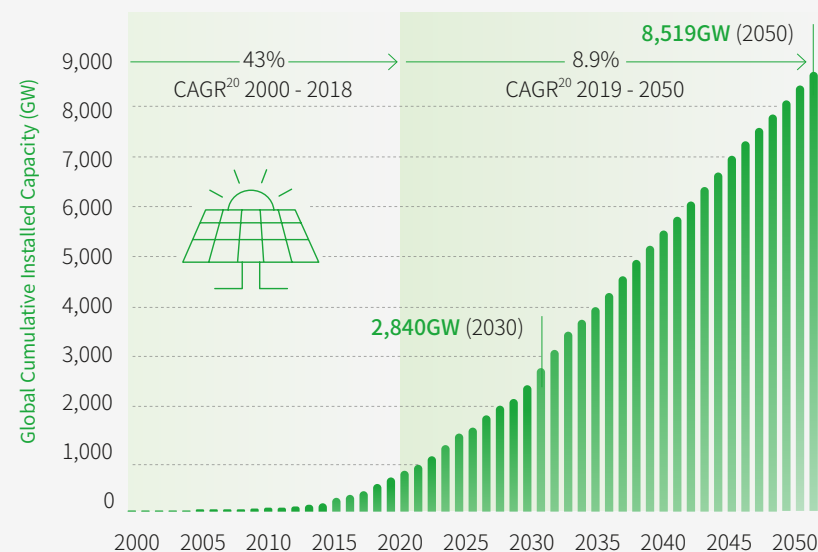
According to the *New Energy Outlook* published by the Bloomberg New Energy Finance (BNEF), a significant growth of renewable energy source represented by solar and wind power is foreseeable under the Net Zero 2050 Scenario. The renewable energy source is expected to dominate the power supply structure. According to the *Future of Solar Photovoltaic* released by IRENA, the global cumulative installed capacity of solar power generation is expected to experience significant growth in the future. This presents a significant development opportunity for PV companies like Jinko Solar. A huge increase in power generation proportion of such energy source plays a key role in reducing GHG emission and addressing climate change. As a result, this can promote the energy industry transition and accelerate economic and social sustainable development.

Forecast of Proportion in Power Generation by Source Under the Net Zero 2050 Scenario (China)¹⁷



Forecast of New Installed Capacity of Solar Power Generation in 2030 and 2050¹⁷

According to IRENA's prediction, the new installed capacity of solar power generation will reach about 270GW and 372GW in 2030 and 2050 respectively, and the global cumulative installed capacity of solar power generation will reach about 2,840GW and 8,519GW. It is expected that the compound annual growth rate (CAGR) of the cumulative installed capacity of solar power generation from 2019 to 2050 will reach about 8.9%.



¹⁷ Source: *New Energy Outlook* published by the Bloomberg New Energy Finance (BNEF).

¹⁸ CCS stands for "Carbon Capture and Storage", which refers to the process of capturing carbon dioxide produced during industrial production and storing it by various methods.

¹⁹ Source: *Future of Solar Photovoltaic*, published by IRENA.

²⁰ CAGR stands for "Compound Annual Growth Rate".

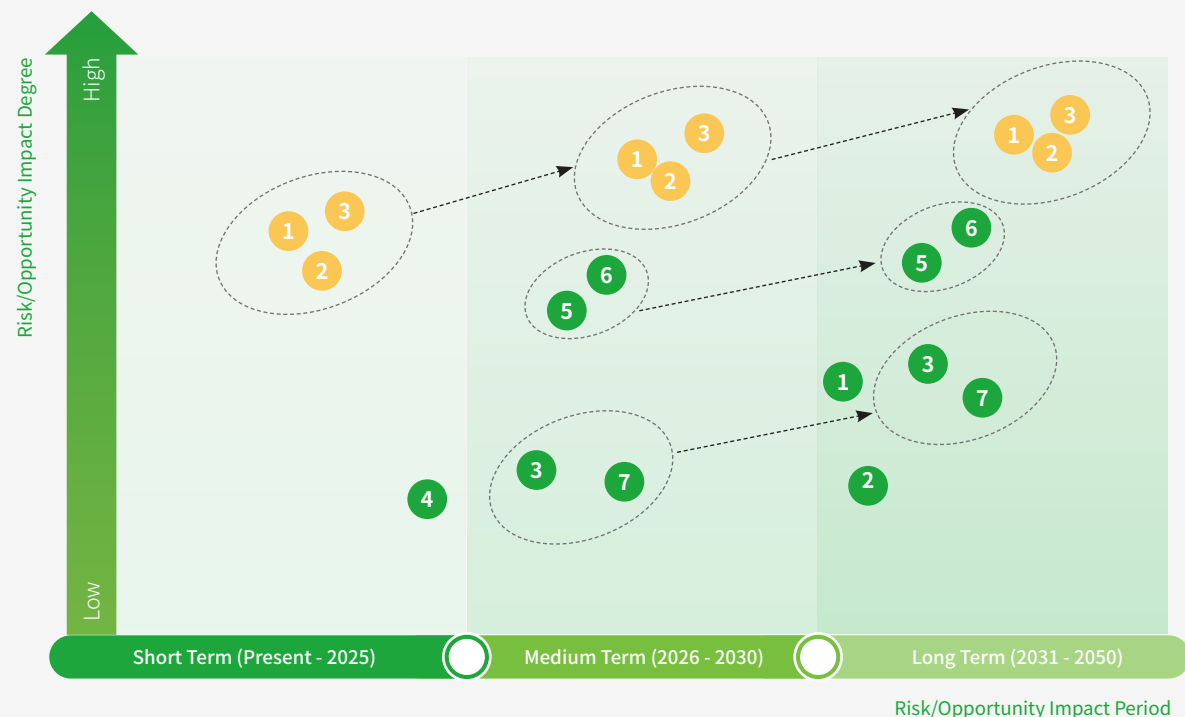
Climate-related Impact Assessment

To delve into the impact of climate change, we conduct in-depth research on various information, market trends and technology development. We also collect and analyze risks and opportunities related to us, and sort out a list with reference to the management process of risks and opportunities. Ultimately, we summarize a total of 10 climate risks and opportunities, comprising 2 physical risks, 5 transition risks and 3 climate opportunities.

Jinko Solar assesses the materiality and financial impact of climate risks and opportunities. As shown in the assessment results, the materiality of the 3 climate opportunities becomes more salient from the short term to the medium term and then to the long term. The impact of climate opportunities is higher than that of climate risks. In terms of climate risks, Jinko Solar's physical risks, including floods, high temperatures and heat waves, etc., mainly exist in the long term, and the impact is limited. Transition risks, including carbon prices, technological requirements, increase in raw materials costs, corporate reputation, etc., have an increasing impact from the medium term to the long term. Other transition risks, such as environmental protection regulations and litigations, mainly exist in the short term and exert a limited impact on the Company.



Assessment on Climate Risks and Opportunities of Jinko Solar



Climate Risks

- | | |
|---|------------------------------------|
| 1. Floods | 5. Technological requirements |
| 2. High temperatures and heat waves | 6. Increase in raw materials costs |
| 3. Carbon prices | 7. Corporate reputation |
| 4. Environmental protection regulations and litigations | |

Climate Opportunities

1. Changes in customer preferences
2. Develop and/or increase eco-friendly products and services
3. Access to new markets

Changes in climate risks/opportunities over time

Through comprehensive researches, climate scenario analysis, industry studies, etc., we have concluded the Jinko Solar's materiality assessment of climate risks and opportunities over the short, medium, and long term. Based on the assessment results, the ESG Management Committee pushes forward interdepartmental collaboration, jointly formulates and escalates response strategies and implements response actions, to continuously enhance the competitiveness on climate-related issues.

Risks/ Opportunities	Potential Impact	Impact Period	Impact Degree	Countermeasures
Climate Risks				
Floods	- Damage building and equipment, result in asset impairment. - Affect water resources, employee health and safety, and consequently impair productivity and revenues.	Long term	Medium 	- Consider flood risk prevention during factory construction, such as seepage-proof, rain-proof and corrosion-proof treatment for warehouses. - Develop the <i>Emergency Plan for Sudden Environmental Incidents</i>, set up an emergency action team, and regularly organize emergency drills to deliver early warnings and address risks in time. - Enhance measures to protect the health and safety of employees. - Increase emergency supplies for water resources. - Integrate water-proof treatment into product design considerations.
High temperatures and heat waves	- Result in potential hot working environment and increased refrigerant consumption, and additional operating costs. - Damage employee health and safety due to unpleasant environment, which in turn affects productivity and revenues.	Long term	Low 	- The high-temperature working sites are equipped with heat-prevention and cooling equipment and facilities, and high-temperature allowances and heat-prevention and cooling items are provided to relevant staff. - In face of the possible fire hazards caused by high temperatures and heat waves, the Company has formulated fire emergency plans and conducted regular training and drills to ensure that emergency response capability is adequate. - Incorporate fire-proof treatment into product design considerations to ensure that all components of products meet the requirements of relevant fire-proof testing standards.
Carbon prices	The costs of GHG emission are likely to increase year by year as a result of carbon trading, carbon fees and carbon taxes introduced globally to limit the total amount of GHG emission, which in turn increases operating costs.	Medium and long term	Medium 	- Have expert teams in global operations to continuously monitor the latest developments of climate-related laws and regulations. - Establish a carbon management system, promote the construction of GHG management platform, and regularly account for GHG emission. - Carry out rooftop PV power generation and energy-saving projects in eligible bases, and continue to promote supply chain emission reduction.
Environmental protection regulations and litigations	Laws and regulations restrict activities that may have negative impact on environment, and non-compliance can result in financial losses.	Short term	Low 	- Have expert teams in global operations to continuously monitor the updates in laws and regulations, and to communicate and collaborate with internal departments in a timely manner. - The expert teams regularly organize specialized training sessions for internal personnel involved.
Technological requirements	Accurately judge the development trends of key industrial technologies, the R&D direction of new technologies and new products, etc., to avoid the risk of falling behind in technology and to secure a competitive advantage.	Medium and long term	High 	- Promote the technology development for cells and modules of higher-efficiency and higher-power while maintaining the continued leading level in N-type TOPCon technology. - Research and develop cutting-edge technologies and continuously launch products that better meet market demand.

Risks/ Opportunities	Potential Impact	Impact Period	Impact Degree	Countermeasures
Increase in raw materials costs	Climate risks for suppliers might be passed on to us via the supply chain, thereby increasing the costs of raw materials procurement.	Medium and long term	High 	- Manage suppliers hierarchically based on assessment results, deepen cooperation with high-performing suppliers, communicate with some suppliers on performance improvement as necessary, and develop alternate suppliers as appropriate. - Regularly take stock of supply chain resources, sort out supply chain stability, reserve resources in advance, and formulate response measures against raw materials costs increase.
Corporate reputation	Regulators, investors, customers and other stakeholders are increasingly demanding corporate climate performance. Climate disclosure and response actions may affect a company's reputation, which in turn affects financing and market values.	Medium and long term	Medium 	- Conduct information disclosure through the official website, ESG reports, ratings to timely respond to the concerns of stakeholders regarding Jinko Solar's climate performance. - Actively participate in various activities and communicate with stakeholders on key measures to address climate change, high-quality development, and other topics.
Climate Opportunities				
Changes in customer preferences	Customers are increasingly interested in sustainable and eco-friendly products. By offering products and services that meet customer preferences, we can further strengthen our competitiveness and revenue growth.	Short, medium and long term	High 	- The mass production efficiency of N-type TOPCon cells has exceeded 26%. With 33.24% lab conversion efficiency of N-type TOPCon-based perovskite tandem cells and industry-leading level of module power, we are able to provide customers with more efficient products. - Build N-type integrated bases to ensure stable supply. - Self-develop various new products to enhance customer experience.
Develop and/or increase eco-friendly products and services	Respond to customers' requirements for eco-friendly products, conduct lifecycle environmental impact assessments of products, and control emission of key products throughout their lifecycle, which helps to ensure that the products have a low-carbon advantage.	Short, medium and long term	High 	- Accounting for the carbon footprint of products. Multiple products have passed the Italian Environmental Product Declaration (EPD) Certification and the French Product Carbon Footprint (PCF) Certification, and the carbon footprint of products has gradually decreased. - Multiple products have been certified as green products, and the competitive advantage of the low-carbon footprint of products is obvious. - Establish an online GHG management platform to optimize the process of collecting emission data.
Access to new markets	New markets are transitioning from fossil energy to low-emission energy. Additionally, growth in purchasing power and population, and economic expansion will increase the demand for new energy source, creating new market opportunities for Jinko Solar.	Short, medium and long term	High 	- Assist in the construction of solar power plant in Garissa, Kenya, which can meet the electricity needs of 70,000 households. - Assist Indonesia's first floating PV project to be connected to the power grid, which can meet the electricity needs of 50,000 households. - Assist in building a large-scale ESS for SOLARMATE in Nigeria, which can reduce the dependence on emergency backup energy.

04

Planning for Reduction Pathways

➤ Review of Emission Status

➤ Path to Emission Reduction Targets



Review of Emission Status

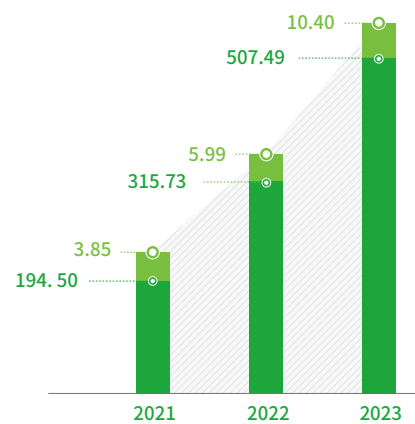
Jinko Solar has listed GHG accounting as an important task, and accounts for GHG emission across the entire value chain (Scope 1, 2 and 3) every year. The Company also analyzes the distribution and trend of emission data by specific dimensions to identify key reduction opportunities.

Emission Status of Scope 1 and 2

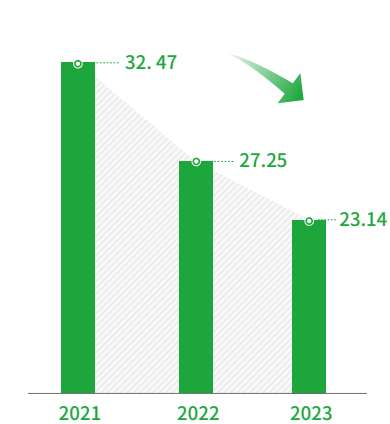
Jinko Solar accounts for GHG emission in scope of operations (Scope 1 and 2) in accordance with the *Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard*. In 2023, the total GHG emission from the Company's scope of operations was 5,178.9 thousand tCO₂e, representing an increase of 60.98% from 2022. The increase in the total emission was mainly attributable to the growth in the number of bases and workshops, production capacity and production volume. The intensity of operation-wide GHG emission (Scope 1 and 2) per MW of production was 23.14 tCO₂e, a decrease of 15.08% from 2022.

- In 2023, direct (Scope 1) GHG emission of the Company was 104 thousand tCO₂e, an increase of 73.62% from 2022, and accounted for 2.01% of total operational emission (Scope 1 and 2).
- In 2023, energy indirect (Scope 2) GHG emission of the Company was 5,074.9 thousand tCO₂e, an increase of 60.74% from 2022, and accounted for 97.99% of total operational emission (Scope 1 and 2).
- In 2023, the proportion of renewable electricity consumption was 51.92%, an increase of 6.18% from 2022.

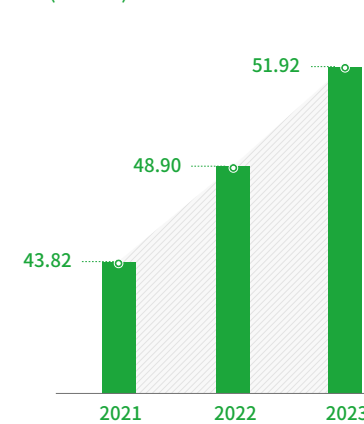
Scope 1 and 2 GHG Emission
(Unit: 10,000 tCO₂e)



Scope 1 and 2 GHG Emission Intensity
(Unit: tCO₂e/MW)



Proportion of Renewable Electricity Consumption
(Unit: %)



■ Scope 1 ■ Scope 2



In 2023, 71.54% of Scope 1 emission came from fugitive emission source and 17.88% of it came from mobile emission source.



Scope 1, 2.01%
104 thousand tCO₂e

Scope 1

● Stationary combustion source	10.58% 11 thousand tCO ₂ e
● Mobile emission source	17.88% 18.6 thousand tCO ₂ e
● Fugitive emission source	71.54% 74.4 thousand tCO ₂ e

In 2023, nearly 80% of Scope 2 emission came from the Crystal Pulling Business Division and the Cell Business Division.



Scope 2, 97.99%
5,074.9 thousand tCO₂e

Scope 2²¹

● Crystal Pulling Business Division	40.41% 2,050.8 thousand tCO ₂ e	● Cell Business Division	38.16% 1,936.4 thousand tCO ₂ e
● Module Business Division	11.25% 571.1 thousand tCO ₂ e	● Slicing Business Division	8.21% 416.6 thousand tCO ₂ e
● PV Material Business Division	1.93% 97.7 thousand tCO ₂ e	● Energy Storage Business Division	0.03% 1.3 thousand tCO ₂ e
● Group Operations	0.02% 0.9 thousand tCO ₂ e		

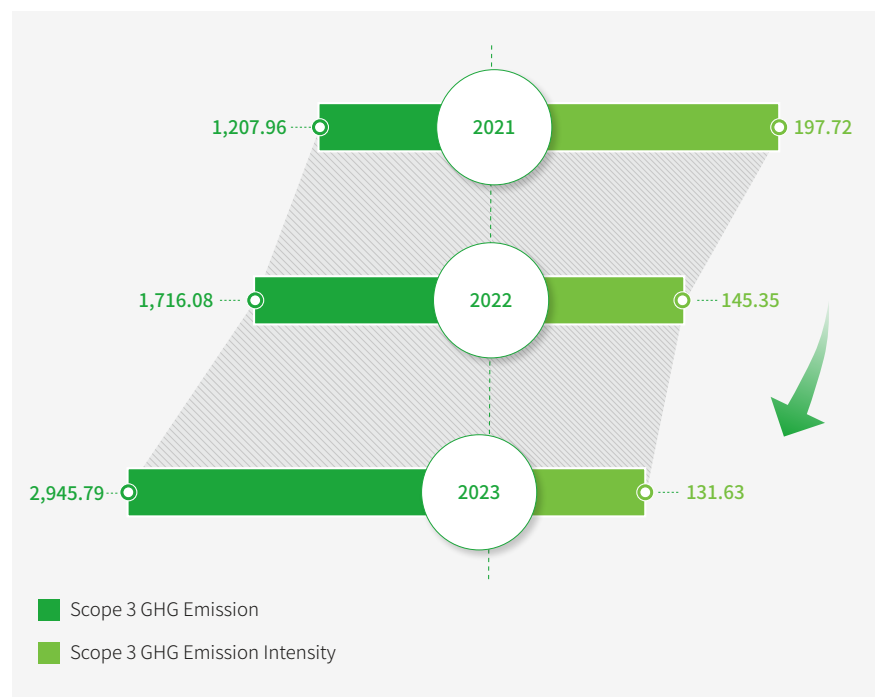
²¹ Due to rounding, there may be slight discrepancies in the detailed data and the corresponding percentages.

Emission Status of Scope 3

Jinko Solar accounts for other indirect (Scope 3) GHG emission in accordance with the *Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Accounting and Reporting Standard* by collecting data from suppliers, internal stakeholders, and estimated industry data. In 2023, the total Scope 3 GHG emission from the Company was 29,457.9 thousand tCO₂e, representing an increase of 71.66% from 2022. The increase in total emission was mainly attributable to increased demand for raw materials supply due to increased production capacity. The intensity of Scope 3 GHG emission per MW of production was 131.63 tCO₂e, a decrease of 9.44% from 2022.

Scope 3 GHG Emission 2021-2023
(Unit: 10,000 tCO₂e)

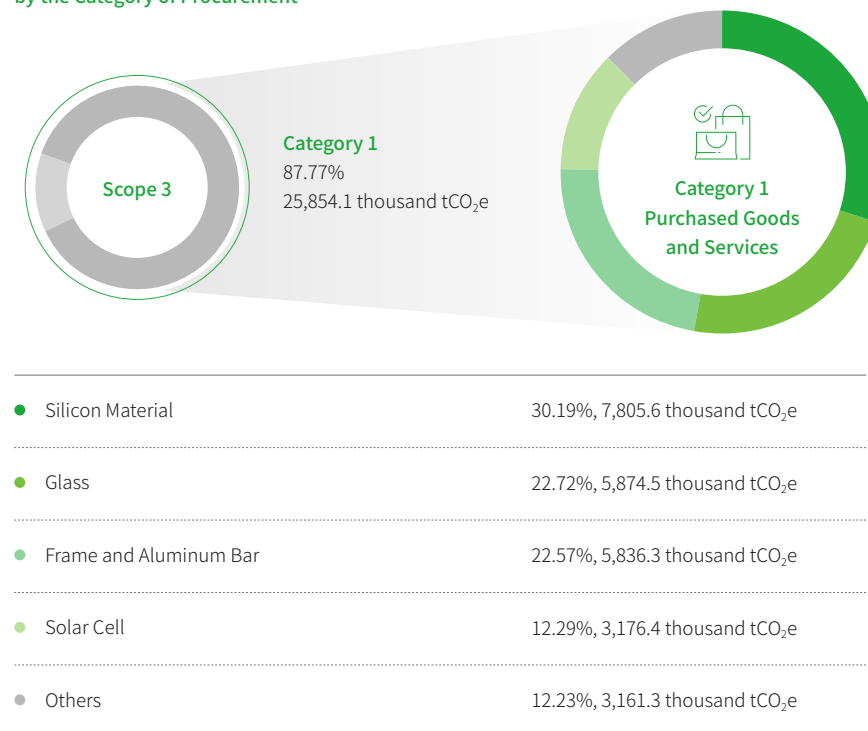
Scope 3 GHG Emission Intensity
2021–2023 (Unit:tCO₂e/MW)



In 2023, Category 1: purchased goods and services was the most significant source of Scope 3 emission, accounting for almost 90% of our total Scope 3 emission, followed by Category 3: fuel and energy related activities, Category 9: downstream transportation and distribution, and Category 4: upstream transportation and distribution.

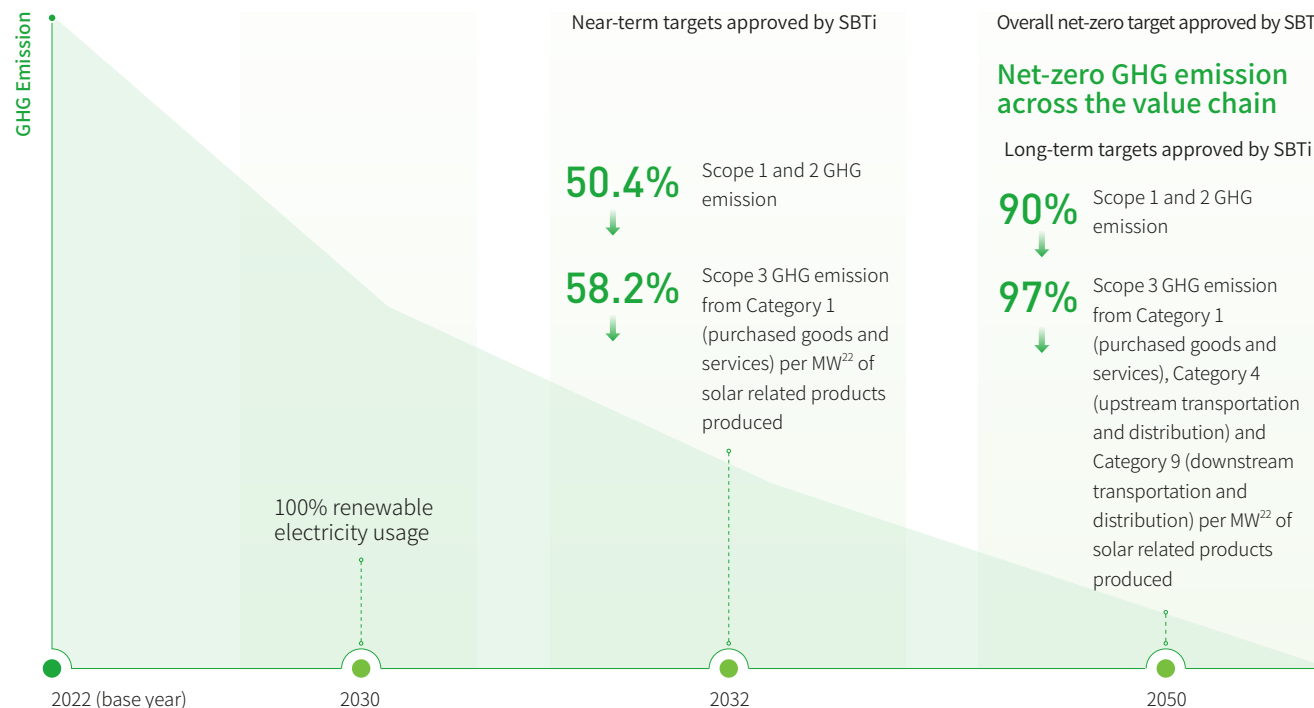
In 2023, Silicon Material, Glass, Frame and Aluminum Bar, and Solar Cell were the main source of emission from Category 1: purchased goods and services, accounting for almost 90% of its total emission.

GHG Emission for Category 1 (Purchased Goods and Services)
by the Category of Procurement



Path to Emission Reduction Targets

We have joined the Science Based Targets initiative (SBTi) at the end of 2021 and have committed to follow the 1.5 °C temperature control path to set our science-based emission reduction targets. In May 2023, we have applied for setting the targets after a comprehensive accounting and analysis. In December 2023, we have formally approved the targets audit.



Jinko Solar Science-Based Targets Commitment

Near-Term Targets

Commit to reduce absolute Scope 1 and 2 GHG emission 50.4% by 2032 from a 2022 base year, reduce Scope 3 GHG emission from Category 1 (purchased goods and services) 58.2% per MW²² of solar related products produced within the same timeframe, and increase active annual source of renewable electricity to 100% by 2030.

Long-Term Targets

Commit to reduce absolute Scope 1 and 2 GHG emission 90% by 2050 from a 2022 base year, and reduce Scope 3 GHG emission from Category 1 (purchased goods and services), Category 4 (upstream transportation and distribution) and Category 9 (downstream transportation and distribution) 97% per MW²² of solar related products produced within the same timeframe.

Overall Net-Zero Target

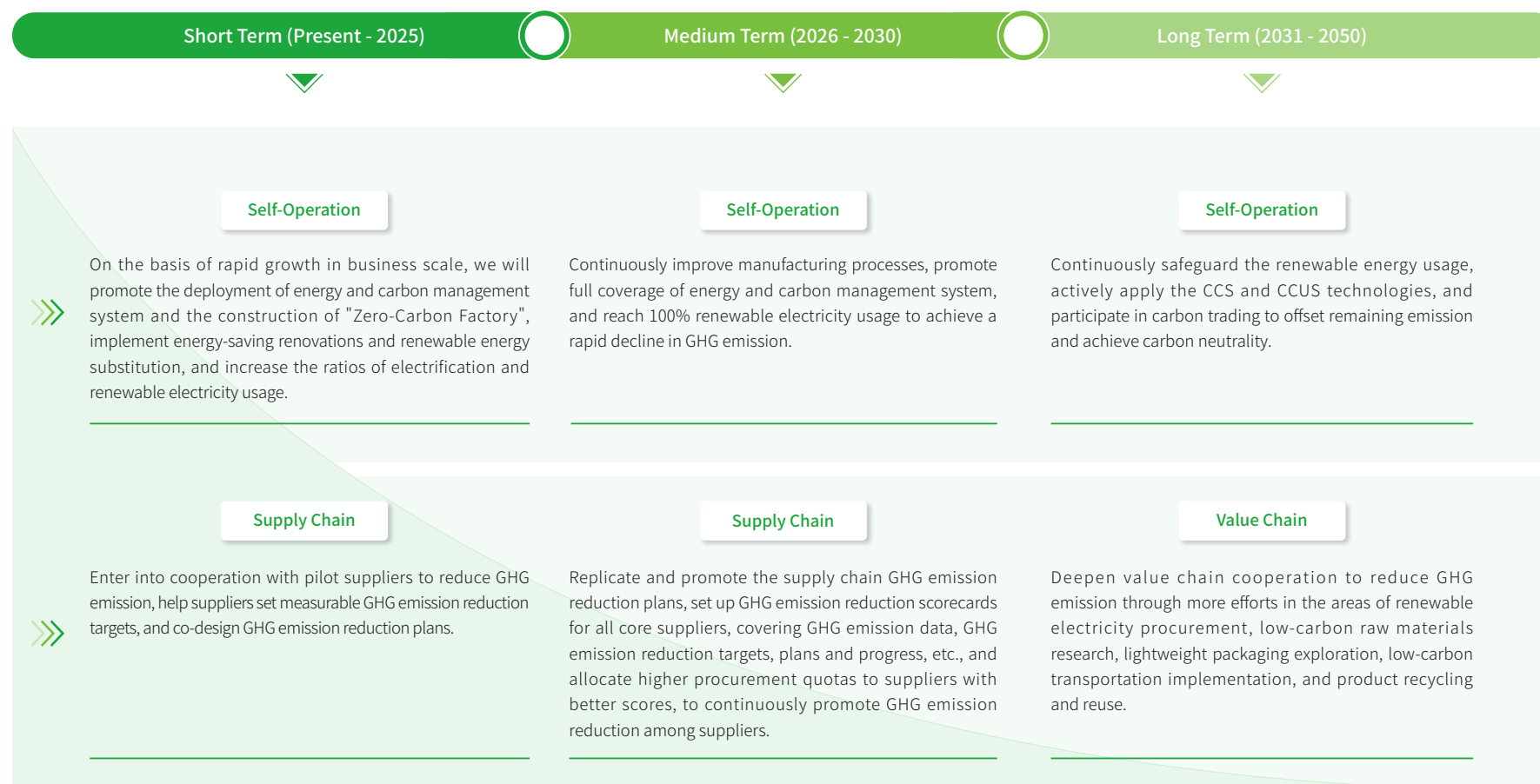
Commit to reach net-zero GHG emission across the value chain by 2050.

²²Each unit of solar related products is measured by production volume in MW.



Jinko Solar has developed short-, medium- and long-term emission reduction strategies to achieve net-zero emission by 2050. The Company starts from operations, supply chain and value chain to promote the management of GHG and energy, secures an increased proportion of renewable energy usage, collaborates with suppliers to reduce emission, explores product recycling strategies. In this way, we reduce emission for the entire industry chain.

Jinko Solar's Short-, Medium- and Long-Term Emission Reduction Strategies



05

Implementing Climate Actions

- Climate Actions Deployment
- Energize Industry Decarbonization Operation
- Explore Diversified Decarbonization Solution
- Empower Global Decarbonization Transition

Climate Actions Deployment

During the process of promoting the global energy decarbonization, we integrate climate risk mitigation and adaptation into the operational strategies, continuously enhancing our resilience to climate risks. Additionally, we leverage our industrial advantages and resources to provide case studies and product and service solutions for more ecosystem partners to protect and enhance our resilience to climate change.

We drive industry decarbonization through our own operations, contributing to the creation of a greener and lower-carbon industrial chain. We actively contribute to building a harmonious coexistence between human beings and nature by developing and promoting diverse products such as modules, ESS and BIPV solutions.

We actively bring diverse products and services to the world, hoping to collaborate with various sectors of society to jointly support global zero-carbon development and build a more sustainable future together.

Explore Diversified Decarbonization Solution

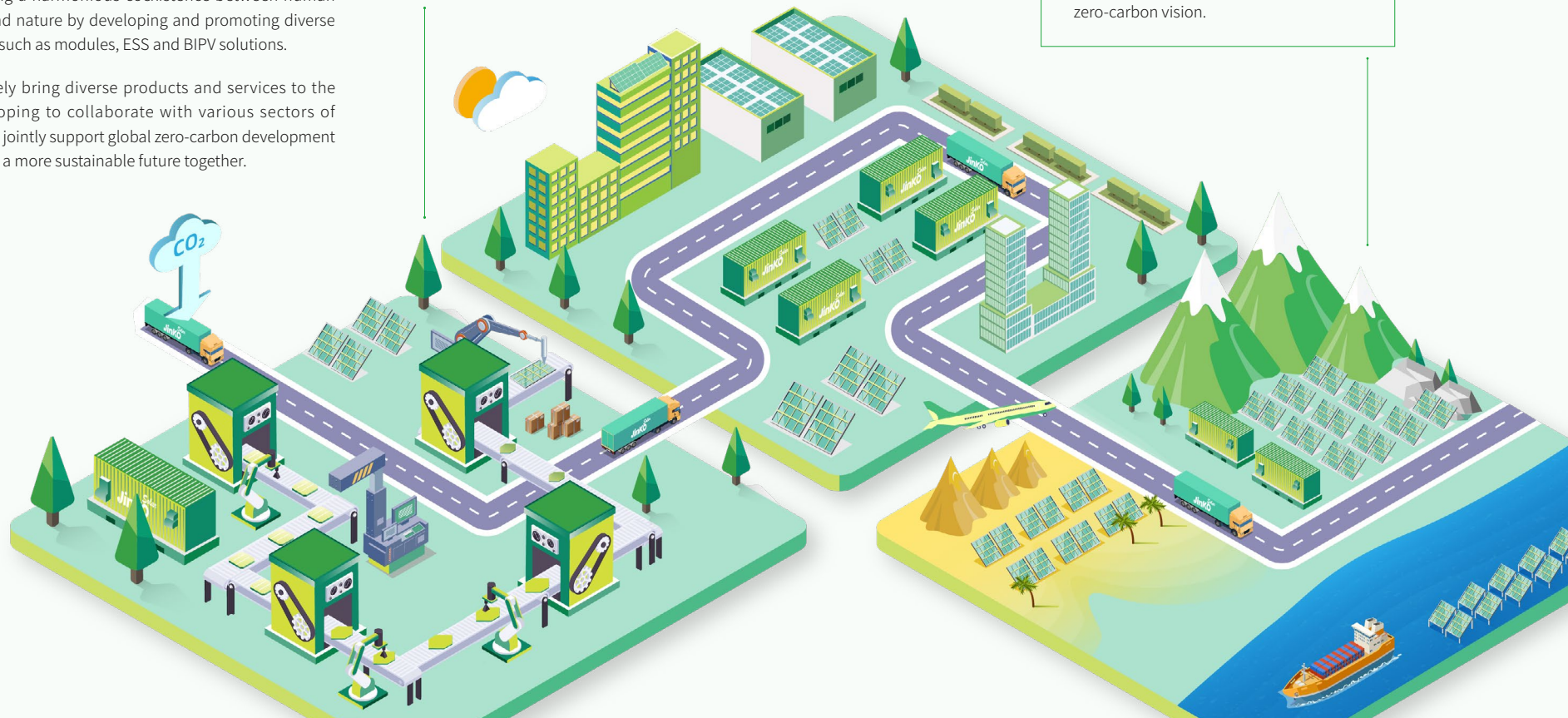
Diversified products empower industry decarbonization and build a zero-carbon societal ecosystem.

Energize Industry Decarbonization Operation

Green operations drive emission reduction in whole PV industry chain and achieve lifecycle decarbonization across industrial development.

Empower Global Decarbonization Transition

Provide clean energy solutions worldwide and accelerate the realization of global zero-carbon vision.

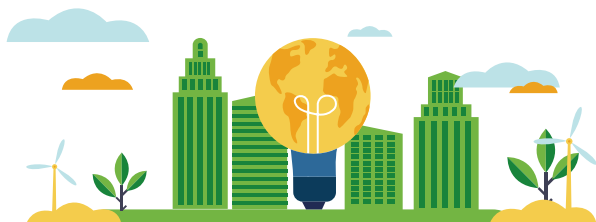


Energize Industry Decarbonization Operation

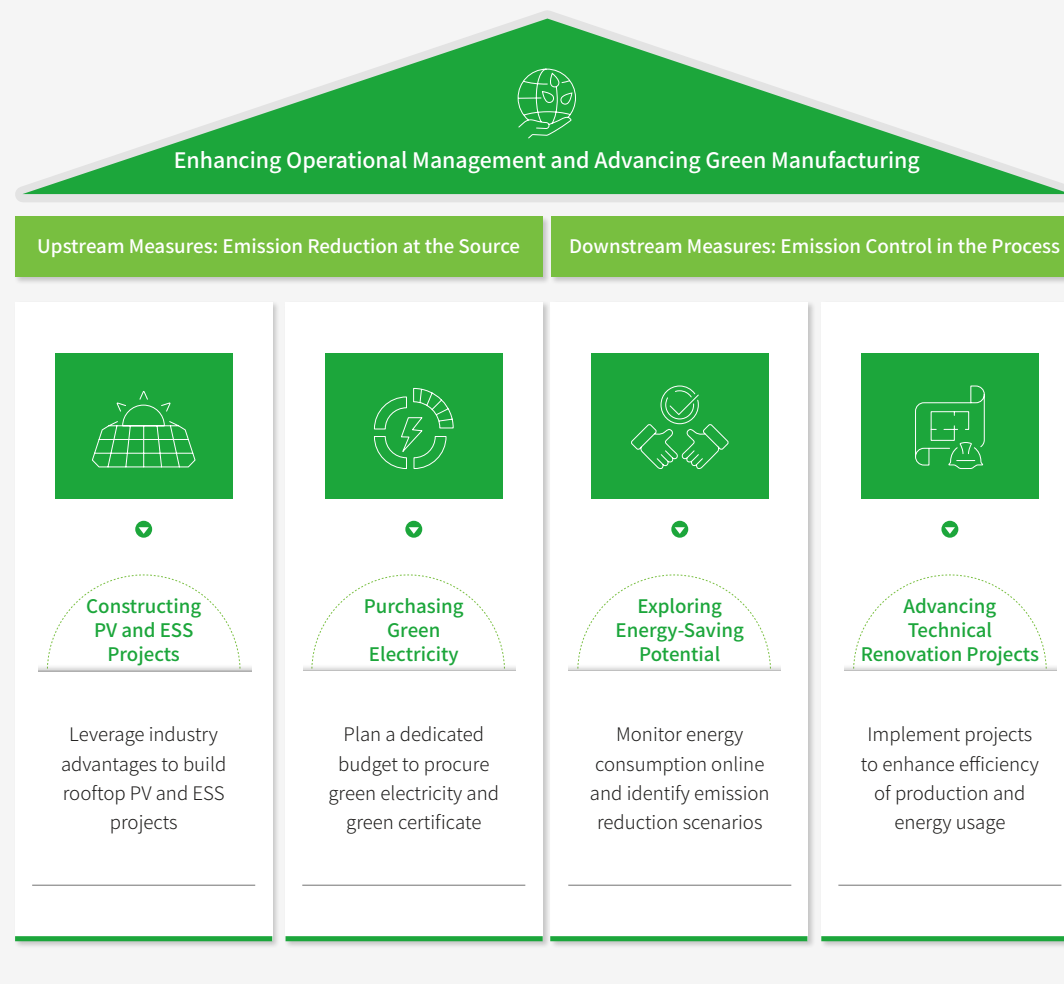
We understand that every decision and action in our operations is closely tied to our planet. We implement measures such as introducing clean energy and promoting energy-saving technologies to achieve comprehensive operational decarbonization, thereby reducing the carbon footprint of the entire industry chain. Additionally, we actively collaborate with suppliers to drive the green transformation of the industry chain and work together with industry partners to embrace a greener and more harmonious future.

Operational Emission Reduction Management

We have established a diversified emission reduction management model, promoting comprehensive emission reduction measures from "upstream measures: emission reduction at the source" to "downstream measures: emission control in the process" to steadily advance our emission reduction targets. By the end of January 2024, we had successfully completed our first internal "Zero-Carbon Factory" production chain, with four bases involved in this chain had been certified as "Zero-Carbon Factory" by the professional third party. In the future, we will continue to pursue "Zero-Carbon Factory" Certification for more bases.



Jinko Solar's Operational Emission Reduction Action Map



Upstream Measures Emission Reduction at the Source

"Upstream measures" refers to promoting the clean energy usage from the source. We actively leverage our product advantages by constructing PV and ESS projects at eligible bases. Meanwhile, we plan a dedicated budget for the procurement of green electricity and green certificate, continuously increasing the proportion of green electricity usage to reduce GHG emission from operations.



Rooftop PV System at Chuxiong Base



Rooftop PV System at Yuhuan Base



ESS Project at Haining Base



General View of Leshan Base

Constructing PV System

We fully leverage the advantages of the PV industry and adhere to the principle of "installing wherever possible". At eligible bases, we encourage the constructing of rooftop PV power generation projects. Additionally, we utilize an intelligent platform to conduct centralized monitoring of the rooftop PV systems. This approach not only enhances the economic efficiency of the rooftop PV systems but also improves their stability and reliability, contributing to environmental protection and sustainable development. By the end of 2023, a total of 238.29MW of rooftop PV systems had been constructed at bases in Shangrao, Jiangxi Province, Haining, Zhejiang Province, Yuhuan, Zhejiang Province, Yiwu, Zhejiang Province, Chuzhou, Anhui Province, Chuxiong, Yunnan Province, Hefei, Anhui Province, etc. In 2023, the total power generation from the rooftop PV systems at these bases had amounted to 199,859.07MWh.



Equipping with ESS

We have equipped some of our bases with ESS, which can store electricity during low-price periods and release it during peak-price periods. This approach reduces electricity costs, improves energy efficiency, and decreases reliance on the power grid during peak times.



Purchasing Green Electricity

We believe that utilizing renewable energy to achieve green production is a crucial part of sustainable development. Our bases in Leshan, Sichuan Province, Chuxiong, Yunnan Province, etc., are located in areas rich in hydropower resources, while our bases in Jinchang, Gansu Province, Xining, Qinghai Province, etc., are situated in regions abundant in solar and wind energy resources. This facilitates the local procurement of green electricity. In 2023, 4,711,085.45MWh of renewable electricity was utilized, accounting for 51.92% of total electricity consumption. According to the "2023 Top 100 China's Green Electricity (Green Certificate) Consumption Enterprises Ranking" jointly released by the China Electricity Council, Beijing Power Exchange Center, Guangzhou Power Exchange Center, and the National Renewable Energy Information Management Center, Jinko Solar ranked first among China's PV companies in green electricity (green certificate) consumption.



Downstream Measures Emission Control in the Process

"Downstream Measures", refers to the implementation of energy-saving technological renovation plans in production and operations to achieve improved energy efficiency and reduced energy consumption. Jinko Solar plans energy-saving incentive schemes to encourage employees in relevant positions to actively identify energy-saving opportunities and contribute solutions, thus helping to reduce operating costs and achieve emission reduction targets.

Digitally-Based Efficient Energy-Saving Solutions

Jinko Solar relies on digital systems to monitor and analyze real-time energy consumption data of workshops and equipment. The Company regularly compares the total energy consumption and the energy intensity per unit of production across all bases, analyzes the cause of data fluctuation, explores energy-saving potential, and proposes practical energy-saving solutions. By implementing a series of energy-saving initiatives, the Company has enhanced economic efficiency to some extent and supported high-quality development.

Carrying out Technological Renovation Projects

Jinko Solar regards technological renovation as an effective way to promote industrial upgrading. We continuously introduce new technologies, processes, equipment, etc., to enhance comprehensive competitiveness. These approaches help to improve production efficiency, reduce operating costs, and achieve energy conservation and emission reduction. In 2023, the Company had carried out 136 technological renovation projects focusing on key aspects of production and operations, such as exhaust heat recovery and boiler thermal field switching, cumulatively saving 135,639.58MWh of electricity.

In these renovation projects, the Company actively focuses on controlling Fluorinated Greenhouse Gases (F-GHG). For example, the high-efficiency machine room renovation project at Shangrao Base in Jiangxi Province emphasizes energy-efficient utilization in various aspects such as planning, equipment procurement, system integration, and the implementation of energy-saving control strategies. This project effectively reduced the usage of refrigerants, thereby reducing the generation of F-GHG from the source.

Establishing the First Internal "Zero-Carbon Factory" Production Chain

Jinko Solar continues to advance energy conservation and emission reduction. We have established an internal "Zero-Carbon Factory" production chain, linking the four "Zero-Carbon Factory" together. These four bases are, respectively, crystal pulling in Sichuan Base (I-Type Four-Stars), slicing in Leshan Base (I-Type Four-Stars), cell in Chuxiong Base (I-Type Four-Stars) and module in Shangrao Base (I-Type Five-Stars). All these bases have been certified as "Zero-Carbon Factory" by the professional third party. In the future, we will continue to pursue "Zero-Carbon Factory" Certification for more bases.

The successful establishment of the first internal "Zero-Carbon Factory" production chain signifies that the factories within this chain have developed strong "Zero-Carbon" competitiveness through a series of "upstream & downstream" emission reduction measures. These factories meet the requirements for "Zero-Carbon Factory" construction in aspects such as material selection, equipment selection, process selection, energy management, digitalized GHG management, and emission-reduction technology management, and have achieved the integration of collection, management, and optimization for emission data.

The "Zero-Carbon Factory" is not only a solid proof to the Company's proactive measures to support the implementation of the "Carbon Peak and Carbon Neutrality" policy through improved energy conservation and emission reduction requirements, but also an official recognition of the achievements made by PV companies in emission reduction. This provides downstream manufacturers and terminal customers with a valid basis for low-carbon choices. In the future, we will carry out more "Zero-carbon Factory" construction and certification to fulfill our commitment to emission reduction.



Crystal Pulling in Sichuan Base (I-Type Four-Stars)

Slicing in Leshan Base (I-Type Four-Stars)



Cell in Chuxiong Base (I-Type Four-Stars)

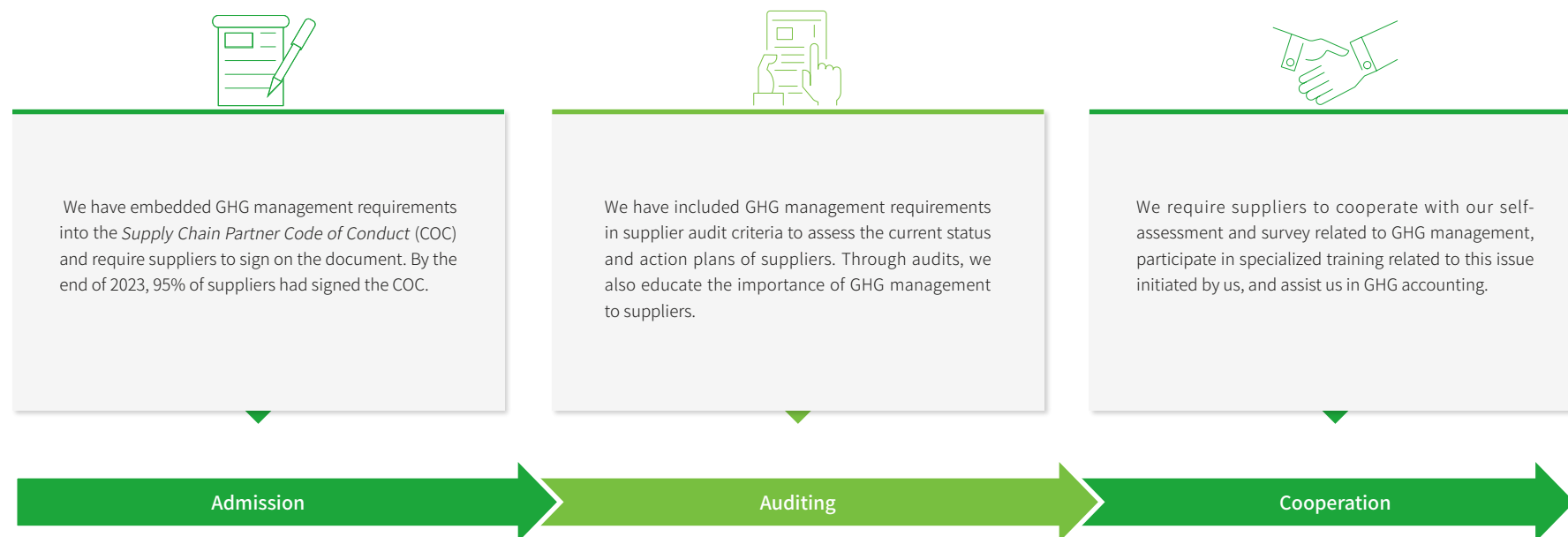
Module in Shangrao Base (I-Type Five-Stars)

Supply Chain Collaborative Emission Reduction

We deeply understand the importance of a healthy and sustainable supply chain in addressing climate risks and environmental challenges. While exploring our own emission reduction path, we actively launch environmental initiatives towards suppliers, formulate the management framework to promote suppliers' emission reduction, collaborate with suppliers to enhance climate risk management and response capabilities and continuously promote the construction of a green supply chain. In 2023, we have been awarded the 2023 Provincial-Level Green Supply Chain Management Enterprise in Jiangxi Province.

Low-carbon Management for Suppliers

Jinko Solar continuously monitors the impact of climate change on supply chain and collaborates with suppliers to explore effective methods to enhance the climate resilience of supply chain. The Company has established requirements related to GHG management in various aspects of supplier engagement, including admission, auditing, and cooperation.

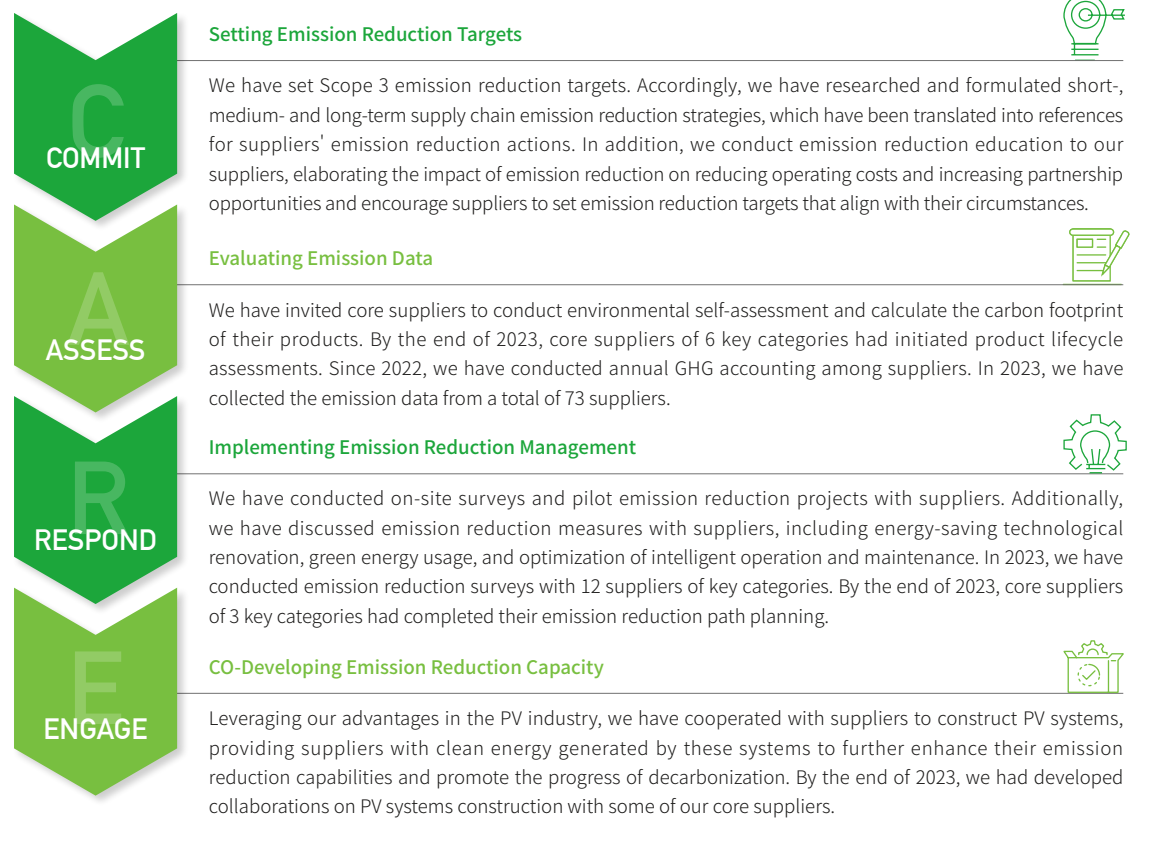


Meanwhile, we have established a supplier risk management system from the perspectives of "the categories of procurement" and "the potential risks of categories", and have formed a supplier risk assessment matrix. Among them, GHG management is one of the issues to be considered in this risk management system. Through comprehensive risk analysis, critical risks and risk ratings of suppliers have been identified. We will continue to assist suppliers in making improvements in risk mitigation and adaptation through training, guidance, etc.

Supporting Suppliers Emission Reduction

We have established a supply chain ESG management system based on the "CARE" framework and have extended this framework to suppliers' GHG reduction actions. We help our suppliers make substantial progress in reducing emission based on four aspects: setting emission reduction targets, evaluating emission data, implementing emission reduction management, and co-developing emission reduction capacity. By the end of 2023, core suppliers of 3 key categories had completed their emission reduction path planning.

Supplier Emission Reduction Strategies Based on the "CARE" Framework



We believe that procurement officers are an important medium to influence suppliers to participate in emission reduction efforts. Therefore, we have actively provided climate-related training to our procurement officers to enhance their expertise and thereby encourage more suppliers to take actions on emission reduction. In 2023, a total of 230 procurement officers have received specialized training on the issue of addressing climate change.



Procurement Officers Participate in Climate-related Training



Explore Diversified Decarbonization Solution

We provide clean, safe, affordable and intelligent energy solutions globally through our innovative technologies and products, and contribute to addressing climate change with cost-effective solutions. Our terminal products are modules, and our intermediate products in the production chain include silicon ingots, silicon rods, silicon wafers, and silicon cells. While developing the business of intermediate products and terminal products, we are continuously expanding the diversified application scenarios of PV technology, focusing on areas such as ESS and BIPV solutions, striving to create a clean energy ecosystem.



Modules to Help High-Efficiency Green Power Generation

In 2023, newly installed capacity of solar power increased by 76% globally and 148% in China²³. Solar power generation is gradually becoming the mainstream of energy structure due to its economic, clean and non-polluting, and easy-to-install features. We are committed to providing high-efficiency and clean energy solutions globally by continuously engaging in products and services.

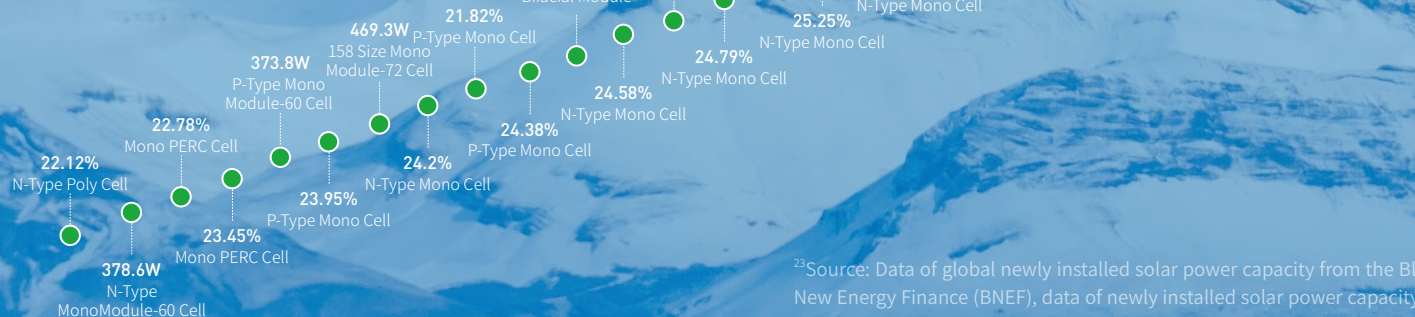
Greater Power Generation with High Conversion Efficiency

We consistently adhere to scientific and technological innovation, and continuously improve the conversion efficiency and the power of our products through high R&D investment. In the past 3 years, we have invested more than RMB 15 billion in R&D, with the number of R&D team members increasing annually. By the end of 2023, there had been more than 2,300 R&D team members. Both our R&D investment and R&D team size are top in the industry.

We continue to promote product iterations and upgrades with our strong R&D and manufacturing capabilities. The mass production efficiency of N-type TOPCon cells has exceeded 26%, with module power at an industry-leading level. In May 2024, we have achieved a significant breakthrough in the development of perovskite tandem cells based on N-type TOPCon, with a lab conversion efficiency reaching 33.24%, significantly surpassing the previous record of 32.33% for similar tandem cells. This breakthrough means that we have broken the world records for PV product conversion efficiency and power 26 times. This milestone has demonstrated the excellent performance of TOPCon as a mainstream solar cell technology and have showcased the perfect integration capability of TOPCon with the next-generation perovskite tandem cell technology. This achievement signifies that we have once again broken the conversion efficiency limit of monocrystalline silicon cells, creating new possibilities for the future development of the solar energy field.

26 times break the world records for PV product conversion efficiency and power

The lab conversion efficiency of the perovskite tandem cells based on N-type TOPCon reaches **33.24%**



²³Source: Data of global newly installed solar power capacity from the Bloomberg New Energy Finance (BNEF), data of newly installed solar power capacity in China from the China Photovoltaic Industry Association (CPIA).

As module conversion efficiency and power steadily increase, the costs of PV systems will be significantly reduced. The total initial investment of a PV system in 2023 could decrease by approximately 8% compared with that in 2022²⁴. Through continuous technological innovation and industrial upgrading, we continuously improve the conversion efficiency and the power of our products, which reduces energy costs for more industries and provides means for achieving low-carbon industrial transformation. In this way, we contribute significantly to building a green, intelligent and sustainable energy future.

High-Efficiency Modules Helped Acwa Power Achieve Higher Gains

Saudi Arabia is blessed with solar resources and has great potential for renewable energy. In October 2023, Jinko Solar has signed a 3.8GW N-type TOPCon Tiger Neo modules supply agreement with ACWA Power to supply high-efficiency modules. The use of these modules providing the client with at least a 3% increase in power generation. Particularly in the Middle Eastern desert climate, the excellent temperature coefficient and bifaciality of the Tiger Neo modules will further increase power generation and project investment return



Signed Modules Agreement with ACWA Power



Super Factory

²⁴ Refer to China PV Industry Development Roadmap 2022-2023 issued by CPIA.

Lower Carbon Footprint to Minimize Environmental Impact

We integrate sustainability considerations into product lifecycle and continue to explore effective methods to minimize the environmental impact during product lifecycle, ensuring ecological advantages.

Emission Reduction Strategies for Product Lifecycle

01 R&D

We integrate low-carbon and environmental protection considerations into product R&D and design, conducting integrated thinning and weight reduction programs to control the amount of silicon wafers, pastes, EVA & POE and other materials within a reasonable range. Meanwhile, we actively develop new low-carbon substitute materials, continuously improve the wattage of products, and reduce GHG emission per unit of power.

02 Procurement

We collaborate with suppliers on emission reduction, incorporate recycled materials usage into procurement considerations, and explore the introduction of low-carbon materials such as granular silicon. In addition, we procure paints and cleaning agents with a low content of VOCs as much as possible, and pilot the recycling of packaging boxes and packaging plastics with some suppliers.

03 Production

We continuously improve the efficiency of energy usage and the proportion of clean energy through measures such as constructing PV systems, equipping with ESS, purchasing green electricity, and conducting technological renovation projects. Besides, we have developed the *Specification for the Use of Recycled Packaging Materials* to standardize the management for the reuse process of packaging materials such as packaging boxes, pearl cotton boxes, pearl cotton caps and cartons used in the production process.

04 Transportation

We promote the applications of the transfer of road transportation to water transportation and sea-rail intermodal transportation, optimize transportation routes, and reduce empty mileage. In addition, we strive to jointly build a green transportation chain with suppliers. We have cooperated with CMA CGM Group to implement marine LNG-powered vessel solutions, reducing GHG emission by about 1,089 tons in 2023.

05 Application

We actively launch more high-quality products to enable more countries and regions around the world to realize energy transformation.

06 Recycle

As a major member of the PV Module Recycling Working Group of the China PV Industry Association (CPIA) and the PV Committee of China Green Supply Chain Alliance (CGSCA), we actively participate in and promote the establishment of recycling standards and the release of related policies. Moreover, we cooperate with PV CYCLE, IEA and other international organizations to promote the recycling and the reusing of end-of-life modules. The material recycling rate of some of our modules can reach 99%.



By the end of 2023, 15 products of Jinko Solar had carried out product Life Cycle Assessment (LCA), 9 products had obtained the Italian Environmental Product Declaration (EPD) Certification, and 10 products had obtained the French Product Carbon Footprint (PCF) Certification. In 2023, the ISO 14067 Product Carbon Footprint (PCF) Certification of the 182 module series products was still within the validity period, 2 mainstream module products and 4 Color Steel Tile BIPV products have passed the China Green Building Materials Product Certification.



China Green Building Material Certification (Modules)



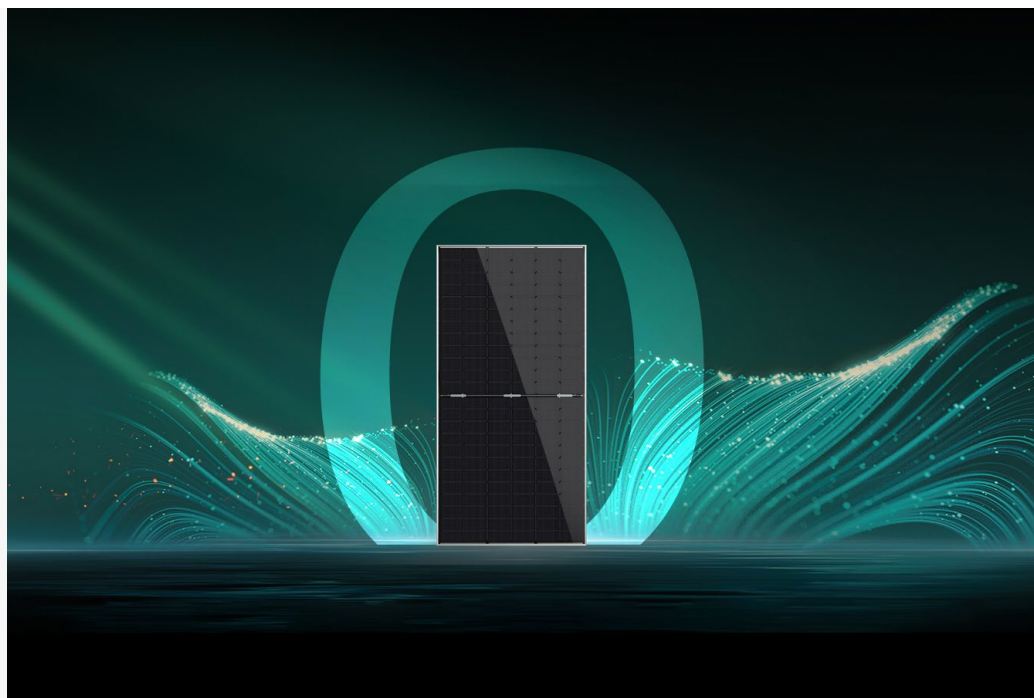
China Green Building Material Certification (BIPV)

Launched Neo Green Modules Manufactured by "Zero-Carbon Factory"

In the first quarter of 2024, we have officially launched the Neo Green modules, which is entirely manufactured by our internally certified "Zero-Carbon Factory". The Neo Green modules represent the achievement of our years of R&D efforts and our commitment to maximizing clean energy usage across vertically integrated supply chain. In addition to using clean energy in production and product-related activities, we are committed to expanding recyclable materials usage, increasing electric trucks and LNG-powered vessels usage, and gradually reducing plastic packaging usage in the future.

In the second quarter of 2024, we have entered into a strategic partnership with CVA Group, committing to supply Neo Green modules to help CVA Group achieve its goal of achieving 800MW installed capacity of renewable energy. This was the first order for the Neo Green modules in the international markets.

Neo Green Modules



ESS to Help Smart electricity Usage

ESS is used to store electrical energy and consists of PV equipment and energy storage equipment, where the PV equipment absorbs solar energy and converts it into electrical energy, which is then stored by the energy storage equipment. When the PV equipment's power is insufficient, the ESS converts the stored energy to stable current for the power grid.

Jinko Solar actively develops ESS suitable for various application scenarios to meet diverse customer needs and contributes to building a clean, low-carbon, safe, and efficient energy system. Our ESS products are divided into three categories: residential ESS, C&I ESS, and Utility ESS. These include core products, such as C&I ESS SunGiga, residential ESS SunTank, etc., featuring high conversion efficiency, peak shaving and valley filling, flexible backup energy, and low noise operation. By the end of 2023, our ESS had been deployed in over 100 projects.

In April 2024, we have launched the SunTera G2, a large-scale 5MWh ESS, and the 314Ah energy storage dedicated cell. SunTera G2 is an ultra-quiet ESS with high energy density, high energy efficiency, high security, low maintenance, low auxiliary power consumption, and long lifespan. It is compatible with most mainstream global energy standards. The SunTera G2 is equipped with our independently developed energy storage big data platform, which supports online monitoring and remote upgrades. The 314Ah energy storage dedicated cell features high energy efficiency, long service life, and high security. Through rigorous material selection, optimal design, and precision manufacturing, the 314Ah cell ensures consistency, extending its cycle life to over 10,000 times with a charging and discharging efficiency of 94.71%, significantly enhancing the economic benefits of the product throughout its lifecycle.

Delivered 42MWh ESS to the Xiaoheima Project in Yunnan Province

Jinko Solar has delivered the 42MWh liquid cooling ESS SunTera to the Xiaoheima "PV + ESS" project in Yunnan Province, operated by PowerChina subsidiary Sinohydro Engineering Bureau 6. The highly integrated ESS combines ESS with PV systems. This could reduce electricity curtailment, participate in the power grid peak shaving and frequency regulation, enhance the stability of the projects.



Xiaoheima "PV + ESS" Project

Strategic Partnership with Sunrev for 1GWh BESS Supply

Jinko Solar has signed a 1GWh BESS supply agreement with Sunrev. This order covered multiple ESS projects in Jiangsu Province and would utilize the second-generation liquid cooling ESS SunTera. This system would optimize and enhance the power supply quality, providing stable, reliable, efficient, and secure electricity support, and further promoting the development of clean energy in Jiangsu Province.



Signed a 1GWh BESS Supply Agreement with Sunrev

BIPV to Empower Building Emission Reduction

BIPV is a technology that integrates modules into the building itself. It refers to the installation of modules on the surface of the building to provide electricity, while also serving as a functional part of the building structure, replacing some traditional building elements such as rooftops, building facades, and rain shelters.

Jinko Solar is committed to expanding the diverse application scenarios for BIPV products. Our BIPV products mainly include Jincai rooftop BIPV products and Jincai PV curtain wall products. They can be widely applied to various scenarios such as industrial and commercial factories' rooftops, carports, curtain walls, and sunrooms. By the end of 2023, the Jincai BIPV series products had generated revenues of more than RMB 200 million, and the 30-year total power generation capacity of the projects is expected to exceed 2.7 billion kWh.

The Jincai rooftop BIPV products feature full-length panels with 360° joint lock structure, eliminating the need for holes, bolts or seams, and ensuring a impermeable rooftop that effectively preventing leakage from plant rooftops at the source. The double-glazed modules paired with color steel tiles have a frameless design that resists dust accumulation. The Jincai rooftop BIPV products have high fire resistance and flame retardancy, and the Fire Protection Grade of the entire rooftop surface can reach the non-combustible material Class A. It also has strong wind resistance, and the roofing system can withstand up to a 16-level wind uplift. Additionally, it has good tramplng-resistance, allowing for increased rooftop installation capacity and more power generation. The Jincai PV curtain wall products are designed to achieve a harmonious and unified architectural style while embodying aesthetic value through its design and practicality. This series of modules can be custom-designed in term of size and color, with power and light transmittance options to meet diverse needs.

Helped Henan Ruitai 3.12MW rooftop BIPV Project

In August 2023, the 3.12MW rooftop BIPV project of Henan Ruitai has been successfully connected to the power grid. The project used our N-type TOPCon BIPV products, which were used for self-generation and self-use, with surplus electricity feeding into the power grid. It was expected to generate an annual electricity of 3.23 million kWh, effectively contributing to emission reduction. The successful power grid connection of the project has provided strong support for Henan Ruitai to become a demonstration enterprise of green technology innovation in Henan Province.



Henan Ruitai 3.12MW BIPV Project

Helped the Lu'an Plant of CR C'estbon 6MW rooftop BIPV Project

Jinko Solar's BIPV project at the Lu'an Plant of CR C'estbon has been successfully connected to the power grid at the end of 2023. The project efficiently utilized the rooftop of the plant's workshops, installing a total of 6MW N-type TOPCon BIPV products. By using a self-generation and self-use, with surplus electricity feeding into the power grid, the project has supported the plant's zero-carbon transition while also providing economic benefits.



BIPV Project at Lu'an Plant of CR C'estbon



Empower Global Decarbonization Transition

As a globally renowned and highly innovative photovoltaic and energy storage technology company, we are acutely aware of our significant responsibility in promoting green development and achieving a zero-carbon future. We are committed to providing the global markets with clean, safe, affordable, and efficient energy solutions through innovative technologies and high-efficiency products, contributing to the low-carbon transition of the global economy. By the end of the first quarter of 2024, our accumulated shipments of modules had exceeded 230GW, with the cumulative installed capacity of solar power of approximately 1.7TW²⁵ globally. This means that one in every eight solar modules worldwide originates from us, contributing to a greener planet where every eighth ton of mitigated carbon dioxide equivalent bears our footprint.

Contribute to Global Sustainability

Based on the ongoing expansion of global production, logistics, sales, and service networks, Jinko Solar deeply understands the essence of new quality productive forces and consistently delivers high-quality products and services to more countries and regions worldwide. We are playing a pioneering and stewardship role in the low-carbon transition of the global economy. By the end of 2023, our products had served over 190 countries and regions worldwide, catering to more than 3,000 customers, with over 120 countries and regions under the "B&R" route.

Delivered Over 220,000 Modules to the Verila Solar Power Plant

Jinko Solar has delivered over 220,000 modules to the Verila Solar Power Plant in Bulgaria. This module series maintains industry-leading advantages in performance, efficiency, reliability, costs, yield, etc., which not only contributes to the costs reduction and efficiency improvement of the Verila Solar Power Plant, but also helps to establish a benchmark for energy transformation in the Pan-European countries and regions.



Verila Solar Power Plant in Bulgaria

Delivered 2 sets of 6.88MWh Liquid Cooling ESS SunTera to the Mideast

Jinko Solar has delivered 2 sets of 6.88MWh large scale liquid cooling ESS SunTera to the ABAAD Contracting Company in Mideast. This system series has been used by hundreds of ESS projects around the world, helping various projects to reduce reliance on emergency backup energy, and improve power generation efficiency while ensuring security.



Large Scale Liquid Cooling ESS SunTera

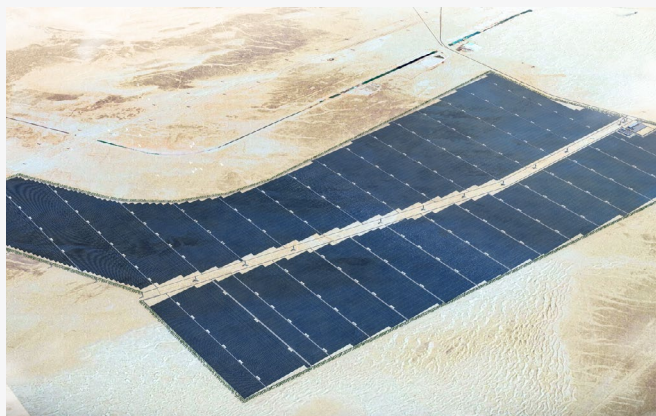
²⁵ The 2023 data for global cumulative installed capacity is from the IEA Photovoltaic Power Systems Programme: Snapshot of Global PV Markets 2024. The data for the first quarter of 2024 comes from the Bloomberg New Energy Finance (BNEF): 1Q 2024 Global PV Market Outlook.

Promote Affordable Energy

We are dedicated to strengthening our partnerships with more countries and regions in the clean energy solutions. We aim to bring renewable, sustainable, and affordable green energy to more rural and remote areas and developing countries and regions, to accelerate the establishment of a fairness, justice, inclusiveness global energy governance system.

Helped Al Dhafra Achieve an Electricity Price of 1.35 US Cents/kWh

The Al Dhafra project is located in the southern region of Abu Dhabi, United Arab Emirates (UAE), with a total installed capacity of 2.1GW. Jinko Solar has provided 635MW modules for this project. The generated electricity could meet the needs of 160,000 households, and also help the project achieve an electricity price of 1.35 US cents/kWh.



Al Dhafra PV Project

High-efficiency Modules Helped "Light Up" Africa

We have provided 25MW modules to support the Central African Republic in successfully implementing the PV power generation project. This project was our first participation in the World Bank Loan project in the West and Central Africa region. It significantly enhanced the electricity efficiency and the utilization of clean energy in the Central African Republic, and provided sustainable electricity to local production and daily life.



PV Project in the Central African Republic

Provided Stable Power Supply to the Kalobeyei Settlement in Kenya

Jinko Solar has provided "PV + ESS" solutions for the Kalobeyei settlement in Turkana, Kenya. This project has a power capacity of 500kW and an energy storage capacity of 1,104kWh. It provided over 2,700 households with a reliable, stable, and affordable electricity supply. In 2023, this project was listed on the "Zero-Carbon Future - ESG Innovation and Practice List" by Wall Street CN.



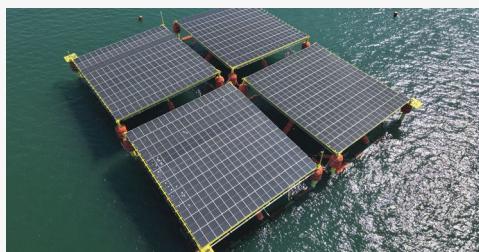
"PV + ESS" Integrated Microgrid Project in Kalobeyei Settlement

Application in Extreme Conditions

Jinko Solar is fully committed to promoting integrated innovation across the entire industrial chain. Leveraging core technologies such as Low Oxygen and Low Concentric Circles Rate N-type Monocrystalline Technology, N-type Silicon Wafer Thinning Technology, N-type HOT 2.0 Cell Technology, N-type IBC cell Technology, and Tiger Neo Module Mass Production Technology, as well as cell and module process technologies such as TOPCon, bifacial, half-cell, stack welding, multi-busbar, and large-size, we have launched high-performance module products suitable for extreme scenarios such as marine as well as high altitude and cold condition, exploring the possibilities of clean energy development in extreme scenarios.

Assisted in the Delivery of a Semi-submersible Offshore Floating PV Project

In April 2023, China's first semi-submersible offshore floating PV power generation platform with independent intellectual property rights has been launched and towed. This project had a total installed capacity of 400kW, 50% of which was provided by our TOPCon modules. In response to the challenges of the extreme scenarios with high humidity and strong salt mist corrosion, we have developed upgraded modules with targeted enhancements. This innovation expanded the application possibilities for modules and provided a valuable reference for R&D and optimization of offshore PV products.



Semi-submersible Offshore Floating PV Project

Supplied Modules for the Yalong River Kela 1GW Project

The Yalong River Kela 1GW PV power station, in Yajiang County, Garze Prefecture, Sichuan Province, is located on the Zhalatosang Snow Mountain at an altitude of 4,600 meters. This project utilized our Tiger Neo modules. With an annual power generation capacity of 2 billion kWh, this project could meet the annual electricity needs of over 700,000 households. In the high-altitude environment, our modules have successfully adapted to extreme scenarios such as severe cold, high altitude, heavy snowfall, and strong winds. This has contributed to the establishment of a landmark clean energy demonstration base in the Yalong River basin and has explored a new path for the development of hydro-PV complementary projects.



The Yalong River Kela PV Power Station

Supplied Modules for the Cirata Floating PV Project

Jinko Solar has supplied Tiger Neo modules for the Cirata floating PV project in Indonesia, with a total installed capacity of 192MW. This project covered an area of approximately 250 hectares, with the deepest water depth exceeding 100 meters. It was a national-level strategic project of Indonesia and the first floating PV project in the country. On completion, it was expected to generate an annual 300,000MWh of electricity, providing affordable electricity for 50,000 households.



Cirata Floating PV Project

Key Quantitative Performance Table

Energy Management

Indicators		Unit	2021	2022	2023
Total investment in energy conservation and environmental protection		RMB 10,000	37,358.65	69,754.14	71,844.27
Total electricity consumption for production and operations			3,182,644.30	5,503,651.40	9,073,739.31
By source of electricity	Purchased electricity	MWh	/	5,458,249.95	8,873,880.24
	Photovoltaic self-generated electricity		/	45,401.45	199,859.07
By type of electricity consumption	Total non-renewable electricity consumption	MWh	1,788,009.57	2,812,365.86	4,362,653.86
	Total renewable electricity consumption		1,394,634.73	2,691,285.54	4,711,085.45
	Proportion of non-renewable electricity consumption	%	56.18	51.10	48.08
	Proportion of renewable electricity consumption		43.82	48.90	51.92
Natural gas consumption		10,000 m ³	330.00	421.20	510.54
Total energy consumption			1,157,494,833.00	1,996,302,695.40	3,284,713,462.23
By energy type	Total non-renewable energy consumption	10,000 kJ	655,426,330.20	1,027,439,902.94	1,588,722,700.23
	Total renewable energy consumption		502,068,502.80	968,862,792.46	1,695,990,762.00
	Percentage of non-renewable energy consumption	%	56.62	51.47	48.37
	Percentage of renewable energy consumption		43.38	48.53	51.63
Energy consumption reduction from energy-saving technological renovation projects		MWh	/	57,540.00	135,639.58
Energy consumption intensity		10,000 kJ/GW	18,945,509.25	16,908,362.23	14,677,856.45

Note: 1. There was an increase in total electricity consumption for production and operations, purchased electricity, natural gas consumption, total energy consumption, etc., in 2023, mainly due to the production of new projects at multiple bases, leading to a continuous increase in production capacity and shipments.

2. The data on purchased electricity for the last two years has been verified by the professional third party.

3. The data on photovoltaic self-generated electricity increased in 2023, mainly due to the increase in the number of the Company's PV projects at the bases and the ongoing benefits generated from some of the PV projects in previous years.

4. The data on energy consumption reduction from energy-saving technological renovation projects increased in 2023, mainly due to the increase in the number of the Company's technological renovation projects and the ongoing benefits generated from some of the technological renovation projects in previous years.

GHG Management

Indicators		Unit	2021	2022	2023
Direct (Scope 1) GHG emission		10,000 tCO ₂ e	3.85	5.99	10.40
Scope 1 GHG emission by emission source	Stationary combustion source		0.81	0.91	1.10
	Mobile emission source		0.72	0.87	1.86
	Fugitive emission source		2.32	4.21	7.44
Energy indirect (Scope 2) GHG emission			194.50	315.73	507.49
Other indirect (Scope 3) GHG emission			1,207.96	1,716.08	2,945.79
Scope 3 GHG emission by source	Upstream		1,165.19	1,651.47	2,813.61
	Downstream		42.77	64.61	132.18
Scope 3 GHG emission by category	Category 1: purchased goods and services		/	/	2,585.41
	Category 2: capital goods		/	/	21.40
	Category 3: fuel and energy related activities		/	/	150.37
	Category 4: upstream transportation and distribution		/	/	47.94
	Category 5: waste generated in operations		/	/	0.89
	Category 6: business travel		/	/	0.35

Indicators	Unit	2021	2022	2023
Scope 3 GHG emission by category	Category 7: employee commuting	/	/	4.24
	Category 8: upstream leased assets	/	/	3.01
	Category 9: downstream transportation and distribution	/	/	119.94
	Category 13: downstream leased assets	/	/	0.86
	Category 15: investments	/	/	11.38
GHG emission intensity (Scope 1 + 2)	tCO ₂ e/MW	32.47	27.25	23.14
GHG emission intensity (Scope 1 + 2 + 3)		230.18	172.60	154.78

Note: 1. The GHG emission is categorized, calculated and reported in accordance with the *Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard*.

2. The Scope 1 and 2 GHG emission data covers all the bases in operations in the current year and our HQ Workplace (located at No.1, Lane 1466, Shenchang Road, Minhang District, Shanghai, China).

3. The direct (Scope 1) GHG emission - stationary combustion source and energy indirect (Scope 2) GHG emission for the past 2 years are verified by the professional third party.

4. The energy indirect (Scope 2) GHG emission is identical based on market and location accounting.

5. The other indirect (Scope 3) GHG emission across value chain is categorized, calculated, and reported in accordance with the *Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Accounting and Reporting Standards*. The calculation of other indirect (Scope 3) GHG emission combines the actual situation of us and the characteristics of the industry in which we operate, with 11 of 15 categories related to us (some irrelevant categories are reasonable exclusions). The assessment is conducted using a combination of data collection from suppliers, internal stakeholders, and estimated industry data.

6. In 2023, there was an increase in the data of emission of various categories, mainly due to the production of new projects at multiple bases, procurement volume, production capacity and shipments continued to increase.

Indicator Indexes

Criteria	Recommendations	Index
Governance	a) Describe the board's oversight of climate-related risks and opportunities.	Climate Governance Framework
	b) Describe management's role in assessing and managing climate-related risks and opportunities.	
Strategy	a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	Climate-related Impact Assessment
	b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	Climate Strategy Matrix Integration of Digital Economy and Real Economy Climate Scenario Analysis
	c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2° C or lower scenario.	Climate-related Impact Assessment Implementing Climate Actions
Risk Management	a) Describe the organization's processes for identifying and assessing climate-related risks.	Climate Risk and Opportunity Management
	b) Describe the organization's processes for managing climate-related risks.	Climate Governance Development Climate Risk and Opportunity Management
	c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	Climate Risk and Opportunity Management
Metrics and Targets	a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	Climate Risk and Opportunity Management Climate Scenario Analysis Climate-related Impact Assessment
	b) Disclose Scope 1 and 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emission, and the related risks.	Review of Emission Status Key Quantitative Performance Table
	c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	Review of Emission Status Path to Emission Reduction Targets



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