A Graphical Overview

7027 Jinko Solar Climate Action White Paper

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

In 2019, Jinko Solar became the first PV company to join RE100 and EP100. Subsequently, we also made a commitment to the "Science Based Targets initiative" (SBTi). By the end of 2023, our near-term, long-term, and net-zero science-based carbon emission reduction targets and roadmap were successfully approved by SBTi, making us the first PV company to achieve this milestone. Reflecting on past years, Jinko Solar has consistently tackled challenges at the forefront of international climate governance, representing not only ourselves but also the renewable energy sector. The climate report we released recently is our first official

featured climate action report, designed to showcase our philosophy, management approaches, practices, and

Accumulated global shipments of modules over revenue reached 230_{GW} RMB 118.682 billion (By the end of Q1 2024)

Serving over investment exceeded 3,000 global customers

RMB 5 billion in the past three years With a global workforce Number of accumulated patents granted over of over

57,000 The first

3,500 PV company to have a "Wafer-Cell-Module" fully certified zero-carbon factory production chain The first

Net-zero, near-term, and long-term targets have been approved by SBTi as the first PV group enterprise in the world CDP Climate Change Questionnaire scored

PV company to launch the modules named Neo Green manufactured from 100% renewable energy powered factory

EcoVadis Sustainability Rating earned silver medal

MSCI ESG Rating scored

BBB

limate Strategy Matrix

We proactively identify the inherent value linkages between our business scenarios and our potential contributions to the global low-carbon energy transition. We also develop a climate strategy matrix that takes into account both our unique characteristics and those of the industry. This approach effectively communicates our

transition to a wider range of stakeholders.

innovative ideas regarding the global low-carbon energy

Optimize the Energy ortfolio and Take Responsi for Enabling a Sustainable Future 0(0 Strategic Pillar III Strategic Pillar I Strategic Pillar II

Global Net-Zero Acceleration High-Efficiency Module Products Operational Excellence Intelligent Energy Storage Systems

mate Governance

Digital Empowerment for Climate Risk Management System Development

promoting the in-depth integration of climate governance and the company's business philosophy and practice through a top-down governance structure. Board of Directors & Strategy and Sustainable Development Committee The top governing and decision-making Decisionbodies for climate change Making Level

change

Management Level

Execution Level

ESG Management Committee The management body for climate

change

Collaborative Departments The executing body for climate

We have implemented a climate governance framework with the board of directors at its core. We are committed to

We have consistently invested in the development of a climate risk management system that actively involves both internal and external stakeholders, enabling collaborative efforts to contribute positively to the sustainable development of the industrial ecosystem.

Sourcing

"85"

Governance

Ecosphere

Standard

Service

Share

Society

Strengthen ${\sf S}$ ynergy Through the exploration of effective integration between GHG management and digital strategy, we have developed an online carbon management platform to manage GHG emissions through digital methods, thus injecting new catalyst into energy conservation and emission reduction.

We have included climate risks and opportunities as an established management indicator, incorporating them into our comprehensive risk and strategic management framework. Additionally, we have implemented a process for managing climate risks and opportunities, deeply integrating climate risk and opportunity management with our business strategy. Climate Risks and Opportunities Identification

> Integrate internal and external analyses to identify types of risks and opportunities, forming

Risks and Opportunities Materiality Analysis

Enhancing

Climate Resilience

Financial Impact Assessment

Development of Response Strategies

PlanningCarbon Reduction Pathways At the end of 2021, Jinko Solar has committed to follow the 1.5°C temperature control target and to set e-based carbon emission reduction



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

emissions 90% by 2050 from a 2022 base year, and reduce Scope 3 GHG emissions from purchased goods and services, upstream and downstream transportation

and distribution 97% per MW of solar related products produced within the same timeframe.

Commit to reach net-zero GHG emissions across the

Take the opportunity of being approved by SBTi as a new starting point, we accelerate the carbon reduction process, and regularly disclose carbon reduction

In 2023, the total emissions of Scope 1 and 2 were 5.1789 million tons of CO₂e, and the emission intensity per MW of production was

Overall Net-Zero Target

value chain by 2050.

progress to the public.

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Commit to reduce absolute Scope 1 and 2 GHG

23.14 tons of CO,e, decreased by 15.08% compared to 2022. • The total emissions of Scope 3 were **29.4579** million tons of CO₂e, and the emission intensity per MW of production was ${\bf 131.63}$ tons of CO₂e, decreased by **9.44%** compared to 2022.

Note: The unit of each photovoltaic-related product is MW of production.

implementing in the second of the second of

Climate Actions

Energize Industry Decarbonization Operation

> Operational Emission Reduction Management

We have established a diversified emission reduction management model focusing on "source emission reduction" and "process emission control" to facilitate the

steady progress of our emission reduction targets. **Upstream Measures: Emission Reduction at the Source** Enhancing Operational Management and Advancing Green Manufacturing Constructing Photovoltaic and Energy Storage Systems By the end of 2023, a total of **238.29MW** of rooftop PV systems were constructed, generating 199,859.07MWh of electricity in 2023.

Purchasing Green Electricity

In 2023, 4,711,085.45MWh of renewable electricity was utilized, accounting for **51.92%** of total electricity consumption, ranked **first** among Chinese photovoltaic

Downstream Measures: **Emission Control in the Process**

Uncovering Energy-Saving Potential

Leveraging digital systems to monitor energy consumption data and analyze energy usage trends in real-time, uncovering potential for energy savings

In 2023, a total of **136** technical improvement projects were carried out around key production and operational processes, resulting in a cumulative electricity saving of 135,639.58MWh.

Note: According to the list of 2023 China Green Electricity (Green Certificate) Consumption TOP100 Enterprises released jointly by the China Electricity Council, Beijing Power Exchange Center, Guangzhou

Supply Chain Collaborative Carbon Reduction We have established a "CARE" supply chain ESG management system and implemented it across our supplier network to encourage GHG emission

We have set Scope 3 emission reduction

Power Exchange Center, and the National Renewable Energy Information Management Center.

and reducing electricity costs

module enterprises.

targets and encouraged suppliers to set **COMMIT** reduction targets that align with their specific circumstances. In 2023, emission data was collected from **73** suppliers. By the end of 2023, core **ASSESS** suppliers of 6 key categories had initiated

product life cycle assessments.

In 2023, research on emission reduction was conducted among 12 core suppliers of key

categories. By the end of 2023, core suppliers of 3 key categories had completed their emission reduction path planning.

We have collaborated with some core suppliers on photovoltaic system

construction projects to enhance their emission reduction capabilities.

Explore Diversified Decarbonization Solution

Modules to Help High-Efficient **Green Power Generation** As of May 2024, Jinko Solar has broken the world re-

cords for photovoltaic product efficiency and power

reduction initiatives.

RESPOND

ENGAGE

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26 times. The mass production efficiency of N-type TOPCon cells exceeds 26%. The laboratory conversion efficiency of the perovskite tandem solar cells has reached 33.24%, with module power at the industry-leading level. \odot By the end of 2023, a total of 15 products have carried out product Life Cycle Assessment (LCA), 9 products have passed the Italian Environmental Product Declaration Certification, and 10 products have passed

the French Product Carbon Footprint Certification. In 2023, a total of f 6 products obtained the Chinese Green

Energy Storage Systems to Help Smart Electricity Use

storage systems for Residential ESS, C&I ESS, and Utility ESS, introducing key product categories including the C&I ESS named SunGiga and the Residential ESS named SunTank. By the end of 2023, our energy storage systems had been deployed in over 100 projects.

We have proactively developed a range of energy

Our 314Ah energy storage dedicated battery cell features high energy efficiency, long lifespan, and high safety, with a cycle life of over 10,000 times and a charging and discharging efficiency of 94.71%.

> **BIPV Products to Empower Building Carbon Reduction**

By the end of 2023, the Jincai BIPV products series had achieved revenue of more than $\mathsf{RMB}\ 200$ million, and the total electricity generation of the

We have introduced a range of products, including Jincai rooftop BIPV and Jincai PV curtain wall systems, suitable for diverse applications such as commercial and industrial factory rooftops, carports, curtain walls,

sunrooms, and other scenarios.

Building Materials Product Certification.

project is expected to exceed 2.7 billion kWh over 30 years. **Empower Global** Decarbonization Transition

Contribute to Global Sustainability

under "the Belt and Road" initiative.

Two sets of 6.88MWh large liquid cooling SunTera energy storage systems have been delivered to the Middle East, reducing reliance on emergency backup energy.

Our high-efficient modules have contributed to the Al Dhafra project, enabling the achievement of a competitive electricity

price of 1.35 US cents/kWh.

By the end of 2023, our products had served over $oldsymbol{3,000}$ customers in more than 190 countries and regions

worldwide, including more than 120 countries and regions

More than 220,000 modules have been delivered to the Verila Solar Power Plant in Bulgaria, establishing it as a benchmark for energy transformation.

We have delivered photovoltaic energy storage integrated solutions to the Kalobeyei settlement in the Kakuma refugee camp in Kenya, providing green electricity to over 2.700 users.

Promote Affordable Energy We have provided renewable, sustainable, and affordable clean energy to more remote areas and developing countries, to promote a fairness, justice, inclusiveness global energy governance structure.

Application in Extreme Conditions With integrated innovation across the entire industry chain, we

condition, expanding the possibilities of clean energy development in extreme environments. Yalong River Kela 1GW hydrophotovoltaic complementary project, 700,000 households.

have launched high-performance module products suitable for special scenarios such as marine as well as high altitude and cold Supplied high-efficiency photovoltaic modules for the located at an altitude of 4,600 meters. This installation is designed to meet the annual electricity demands of over

Supplied high-efficient module products for the Cirata floating photovoltaic project in Indonesia, with the water depth exceeding one hundred meters at the deepest, which can

provide affordable green electricity for 50,000 households.

Technology is an ability, and driving positive change is a choice. To find solutions for human sustainable development,

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.