

The background of the cover is an aerial photograph of a large-scale solar farm. The solar panels are arranged in neat, parallel rows that stretch across the landscape. In the lower-left corner, a cluster of modern, multi-story buildings with flat roofs is visible, likely a central control or administrative facility for the solar farm. The overall scene is captured from a high angle, showing the vast expanse of the solar array.

2022

Sustainability Summary Report

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LONGi Green Energy Technology Co., Ltd.

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Chairman's Message



Looking back to the year of 2022, despite global economic turbulence and geopolitical conflicts, achieving carbon neutrality is still a global consensus with collective efforts. Against this backdrop, LONGi remained focused on technological innovation in the field of renewable energy, leading high-quality development of the industry. Leveraging green energy technology, LONGi moved further towards a green and zero-carbon future.

LONGi has always adhered to compliant and prudent business operations and worked closely with all stakeholders to create a trustworthy social environment. We set up our first sustainability strategy, restructured the Strategy Committee into the Strategy and Sustainable Development Committee, strengthened the Board's involvement in ESG matters, and established the Sustainable Development and Climate Action Office to embed sustainable development into daily operations.

We upheld our core values of being "Reliability, Value-add, Fulfillment" and worked with our suppliers to provide quality services to global customers. We diversified our collaboration with partners across the industrial chain and shouldered the industrial responsibility to coordinate emission reduction. We carried out a green partner empowerment plan and strengthened corporate social responsibility in supply chain management to collectively build a green and sustainable value chain.

We continued to offer reliable and efficient products and services to customers around the globe. Focused on creating value for customers and were driven by innovation, we kept breaking records of PV cell conversion efficiency 14 times consecutively from 2021 to 2022, hitting 26.81% conversion efficiency for crystalline silicon PV cells. For the first time, we launched Hi-MO 6 modules applicable to different scenarios. Meanwhile, we also made great progress in the R&D of green hydrogen equipment and application, and partnered with building service provider CENTRE INT to provide customers with more scenario-based green energy solutions.

We stressed the quality assurance of our products and improved the quality management system, enabling us to receive certifications from international standard organisations during the reporting period. We

provided customers with quality services covering pre-sale, in-sale, and after-sale and our after-sale service system won a five-star rating in 2022. Our products were widely employed in diverse fields like construction, transportation, and agriculture, facilitating the progress of infrastructure construction and energy transition in Central Asia, Latin America, and other regions and empowering the green transition and emission reduction efforts of numerous industries and global clients.

Facing severe risks brought by climate change, we remained committed to delivering our promise with actions by developing a sound emission reduction policy according to global standards and pushing forward the RE100, EV100, and EP100 initiatives and the establishment of a zero-carbon plant. We integrated the concept of green development into the whole lifecycle management of our products and set an example of green development, striving to become a green technology enterprise trusted by all stakeholders.

The development of LONGi would not be possible without the concerted efforts of all our employees and the support and encouragement from society. When pursuing corporate development, we improved the quality of our employees' life with better welfare and guaranteed their health and happiness. Meanwhile, we continued to give back to the society based on our strengths and put efforts into poverty reduction in China and less-developed regions around the world, aiming to spread our "kindness" like sunshine so that all stakeholders can benefit from our corporate development and green transformation.

In the era of carbon neutrality, LONGi has seized the trend of the times and is striding forward by leveraging clean energy. Given the massive market scale, we are ready to collaborate with more partners and promote a just global energy transition and sustainable development based on common principles and values to ensure a livable and sustainable future for all.

Zhong Baoshen
Chairman of LONGi

About LONGi

About Us

LONGi Green Energy Technology Co., Ltd. is committed to delivering affordable and accessible energy for the world and strives to "To be the most compelling solar technology company by leading the world's transition to green energy". The Group was founded in 2000 and publicly listed on the Shanghai Stock Exchange in April 2012 (SH.601012).

<p>Mission</p> <p>To make the best of solar energy to build a green world</p>	<p>Vision</p> <p>To be the most compelling solar technology company by leading the world's transition to green energy</p>	<p>Core Values</p> <p>Reliability Value-add Fulfillment</p>
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Our Business Footprint

With the mission of "To make the best of solar energy to build a green world", LONGi positions itself as "The most trusted, reliable solar company that blazes the trail for green technology" and focuses on technological innovation. Our business covers five segments: monocrystalline silicon wafers, cells and modules, distributed generation solar solutions, utility plant system solutions, and hydrogen energy equipment solutions.






The company continues to provide innovative solutions, including PV products and solutions like utility applications on the ground power stations and distributed generation applications on the roof (including BIPV). In line with the global consensus on achieving carbon neutrality, the company is investing more in the green hydrogen business. We strive to become a provider of large green hydrogen equipment and solutions and develop hydrogen production equipment based on alkaline water electrolysis to create "green electricity" + "green hydrogen" products and solutions that drive global zero-carbon development.

As of 2022, the company has established manufacturing bases in China, Vietnam, Malaysia, and sales offices in the United States, Japan, India, Australia, Thailand, the United Arab Emirates, and other countries, with a business presence in more than 150 countries and regions.

<p><i>China Institute of Energy Economics</i></p> <p>2022 Top 500 Global New Energy Companies No.6</p>	<p><i>Forbes China</i></p> <p>2022 Forbes China Most Innovative Companies Top 50</p>
<p><i>Fortune China</i></p> <p>2021 Fortune China Future 50 No.42</p>	<p><i>Hurun Research Institute</i></p> <p>2022 Hurun China 500 No.15</p>
<p><i>China Enterprise Evaluation Association</i></p> <p>2022 China's Top 500 New Economy Companies No.10</p>	<p><i>China Enterprise Confederation/ China enterprise Directors Association</i></p> <p>Top 500 Chinese Enterprises in 2022 No.288</p>
<p><i>All-China Federation of Industry and Commerce</i></p> <p>China's Top 500 Private Enterprises No.105</p>	<p><i>China Enterprise Confederation/ China enterprise Directors Association</i></p> <p>China's Top 500 Manufacturers No.132</p>
<p><i>Fortune China</i></p> <p>2021 Forbes China Employer of the Year, Most Sustainable Employer of the Year and 2022 China Most Sustainable Employer of the Year</p>	<p><i>Best Managed Companies</i></p> <p>2022 China's Best Managed Companies award</p>

Sustainable Development Philosophy of LONGi-LIGHT

With the mission of "To make the best of solar energy to build a green world", LONGi promotes energy equity and strives to leverage solar technology to reshape the future of energy and ensure access to solar-powered energy for all. In 2023, the company set up its sustainable development philosophy, known as LIGHT. Taking into account our development strategy, industry features, national development plan, and the United Nations Sustainable Development Goals, we have established five factors- "Lead", "Innovative", "Green", "Harmonious", and "Trustworthy".

 Lead	 Innovative	 Green	 Harmonious	 Trustworthy
<p>Promote better development of oneself, industry, and society with the core of "lead"</p>	<p>Product Responsibility Product Quality, Green Product</p> <p>Technology Innovation Product Innovation, Intellectual Property</p>	<p>Climate Action Climate Risks and Response, Product Lifecycle Carbon Management</p> <p>Environmental Management Emissions, Energy Use, Environmental and Natural Resources</p> <p>Water Utilization Risk Assessment of Water Resources, Water Conservation</p>	<p>Employee Wellbeing Talent Recruitment, Benefits, Training, Safe Production, Health Care</p> <p>Industrial Collaboration Industrial Standards, Industrial Exchanges</p> <p>Community Improvement Community Development, Public Welfare Charity</p>	<p>Social Responsibility Management Social Responsibility Certification, Management System Development</p> <p>Customer Relations Customer Service, Responsible Marketing, Privacy Protection</p> <p>Responsible Supply Chain Supplier Management System, Risk Management, Responsible Procurement, Conflict Minerals, Supply Chain Communication and Empowerment</p>

 **ESG Sustainable Development Vision**

Lead to the clean energy world

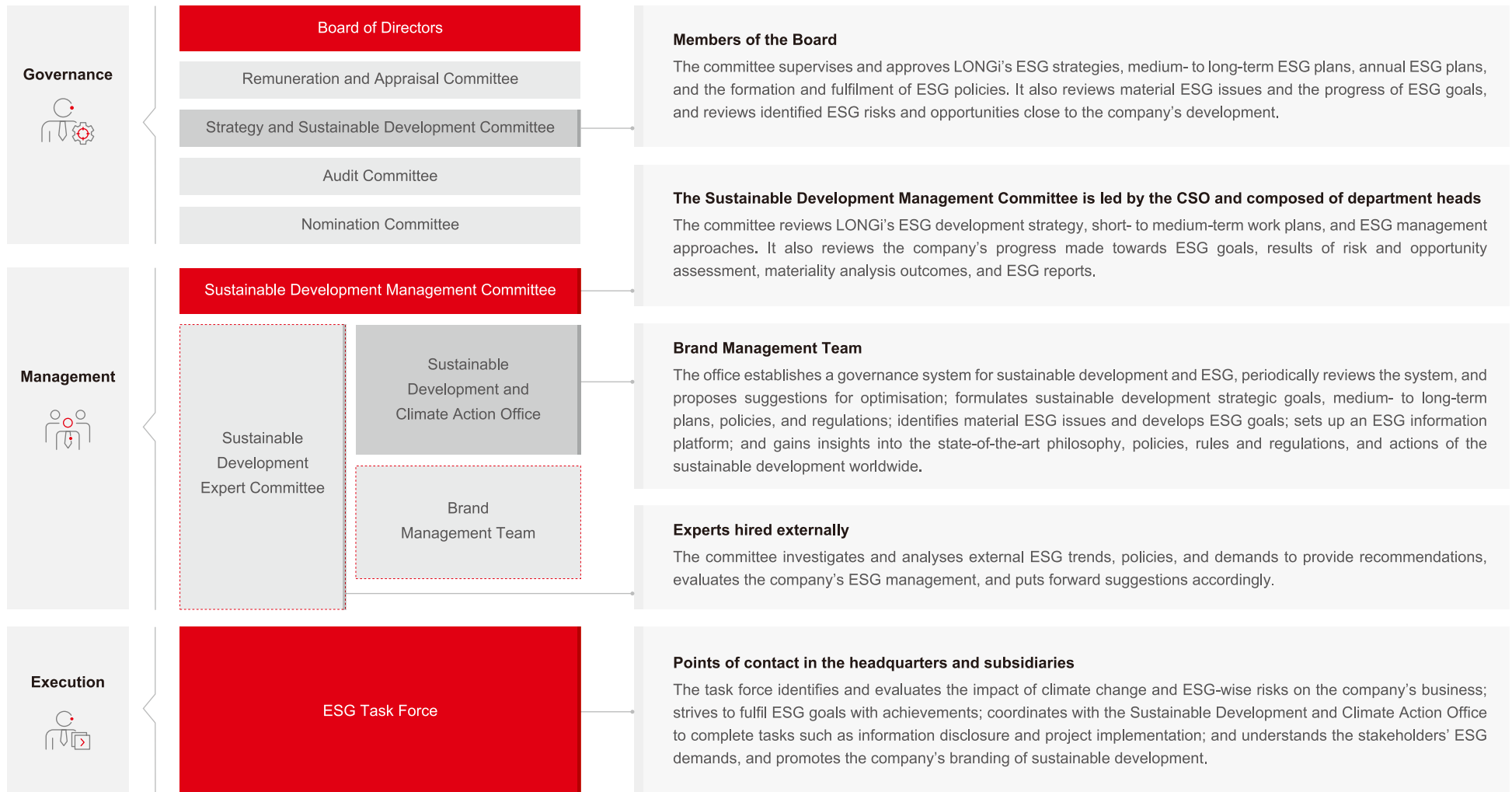
 **ESG Sustainable Development Goal**

Affordable for all



Sustainable Development Management

LONGi consistently adheres to the philosophy of sustainable development and places high importance on ESG governance. In order to better fulfil our sustainable development goals and strengthen the company's ESG governance capabilities, we have revamped our ESG governance structure. We have developed a three-tier ESG governance structure covering the governance, management, and execution, with the Board of Directors serving as the highest decision-making body. We have also expanded the Strategy Committee to the Strategy and Sustainable Development Committee, which oversees and reviews the company's ESG practices.



01 Innovative

Under its mission of “to make the best of solar energy to build a green world”, LONGi has dedicated itself to innovation and value creation, doubled down on R&D, and accelerated product iteration and technological innovation. We strive to deliver quality and reliable products, bring better and sustainable value to our customers, and promote global energy transformation and green development.

SDG goals addressed in this section



RMB 7.141 billion

invested in R&D (5.54% of the operating revenue goes to R&D)

14 times

LONGi has refreshed the world records of PV cell conversion efficiency 14 times

40

Obtained more than 40 product certificates from countries in 4 regions worldwide

Awarded with “**Top Performer**” in the annual PVEL PV Module Reliability Scorecard for **6** consecutive years

LONGi is a member of several research institutions, including the Hydrogen Energy Industry Promotion Association and the PGO Hydrogen and Fuel Cell Industry Research Institute.

4,036

scientific researchers

2.7%

LONGi released LONGi ALK Hi1 series products that reduce the levelized cost of hydrogen (LCOH) of hydrogen production by 2.7%

6.4%

save 6.4% of electricity cost per year

All series of wafers have received the French carbon footprint ECS certification, and the high-efficiency modules have obtained the Environmental Product Declaration reports.

LONGi laboratory has **70+** testing capabilities and is accredited by China National Accreditation Service for Conformity Assessment (CNAS); it is also the strategic cooperation lab of TÜV Rheinland, SÜD, and NORD, CGC, CSA, and other renowned international certification bodies for new energy.

1.1 Technology Innovation

Product and tech-innovation are the key drivers of LONGi's development. We have set up a scientific and efficient R&D management system and an innovation mechanism for internal and external collaboration, partnered with famous domestic universities and abroad, and taken multiple measures to improve the efficiency and quality of R&D.

PV Cells technology breakthrough

LONGi has been developing the frontier technologies of PV cells, including PERC¹, HJT², TOPCon³, and HPBC⁴, and designing the most cost-effective products for mass applications with high efficiency and reliability.

We believe that improving conversion efficiency and reducing the cost of electricity are eternal themes for the PV industry. As we position ourselves as "technology-led", we venture into uncharted territory, unravelling industry and global technical challenges through intensive research. In November 2022, LONGi set a new world record efficiency at 26.81% with our independently developed heterojunction (HJT) cells, as certified by the Institut für Solarenergieforschung in Hameln (ISFH), breaking the five-year record for silicon solar cell efficiency.



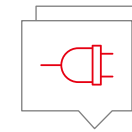
Saved for society RMB

300 billion



Reduced land use by

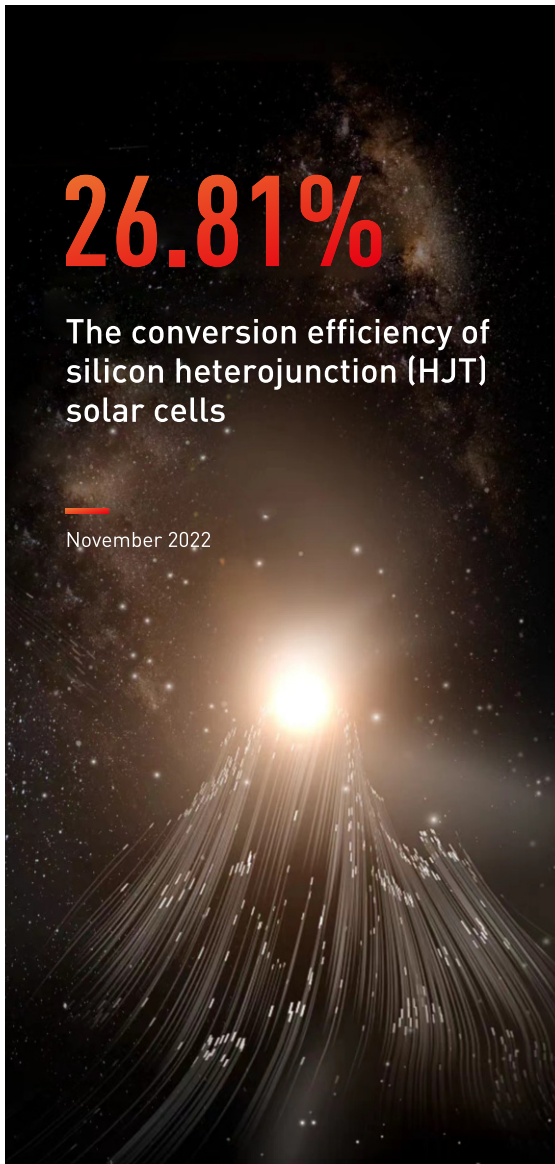
10%



Equivalent to electricity cost reduction by

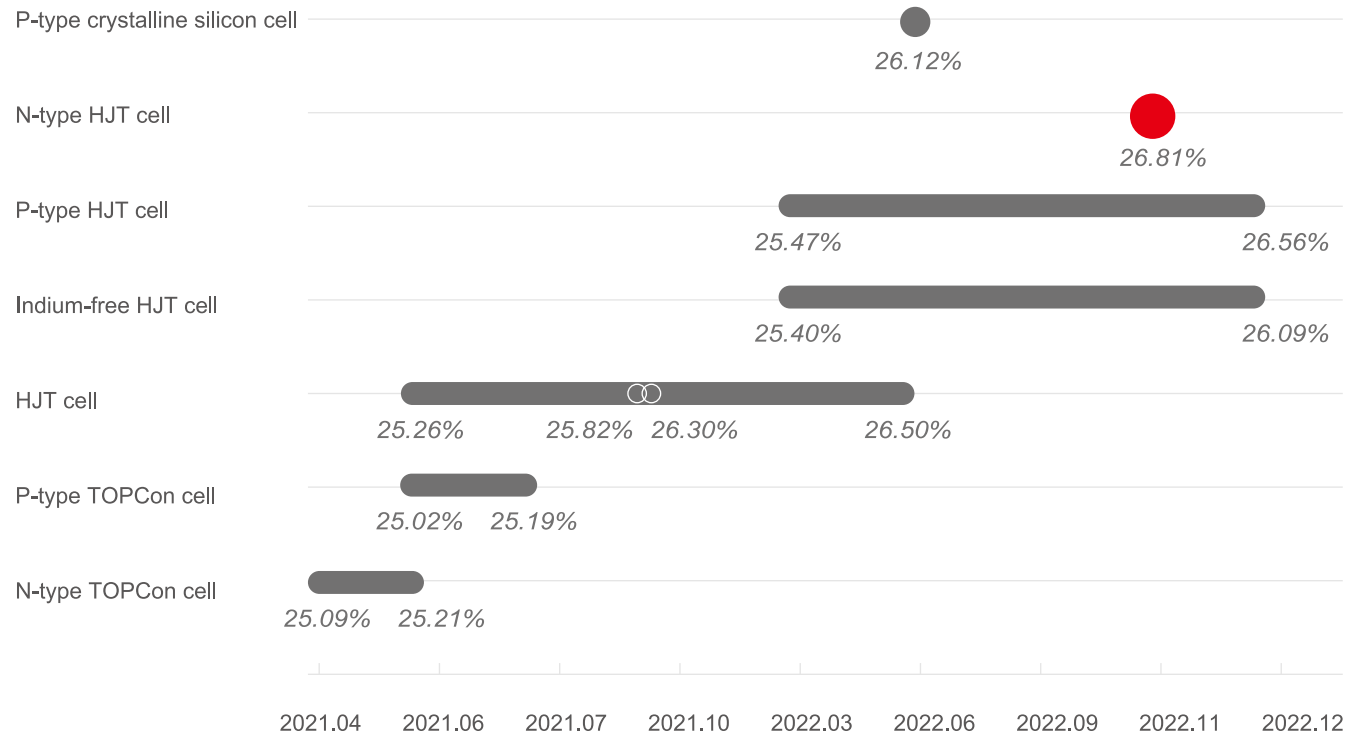
4-7%

1. PERC: Passivated Emitter and Rear Cell
2. HJT: Heterojunction with Intrinsic Thin-film
3. TOPCon: Tunnel Oxide Passivated Contact
4. HPBC: Hybrid Passivated Back Contact



It is estimated that for every additional 1 terawatt of PV installed globally, the silicon cell technology with a conversion efficiency of 26.81% can save approximately 300 billion RMB for society while also reducing land use by 10%. 1 percentage increase in PV module efficiency is equivalent to a 4-7% decrease in electricity costs.

LONGi's cell efficiency Breaking world record of milestones for **14** times



Module Technology Innovation

In module technology, we developed a new compatible and precise ultra-multi-grid interconnect technology to increase cell conversion efficiency. In terms of product upgrades, we further expand our centralised and distributed product matrix with the launch of the Hi-MO 5m 54-cell and Hi-MO 6 modules. By providing efficient, reliable, and high-yielding PV products for different scenarios, we offer more choices to global customers and thus create greater value.

In November 2022, LONGi introduced the Hi-MO 6, the first module designed exclusively for the global distributed generation consumer market. Utilizing LONGi's high-efficiency HPBC cell technology, the Hi-MO 6 achieves a maximum efficiency of 22.8% in mass production. In global power generation simulations, Hi-MO 6 modules have demonstrated a significant power generation advantage over PERC products with an average power generation increase of up to 10% in typical scenarios.



▲ Hi-MO 6 Product

1.2 Responsible Products

LONGi adheres to the principle of "Quality First" and established the end-to-end quality management system of the whole value chain. We strictly control the product quality and insist on providing the maximum value to customers with the best quality products.

LONGi Quality Management System

We have established a systematic quality management system and strengthened quality control throughout the production process to ensure that customers are supplied with reliable, high-quality products.



PV Products

- Obtained ISO 9001 quality management system re-certification by TUV⁵ and CQC⁶
- Obtained TUV IEC 62941 PV module manufacturing quality system certification



Hydrogen Energy Products

- Obtained ISO 9001 quality management system certification
- Obtained CE-PED certification for pressure-bearing equipment from EU member states
- Obtained factory quality system "ASME" certification⁷
- Granted by ESA⁸ the social responsibility system "WCA"⁹ certification

5. TUV: TÜV Rheinland in Germany, a world-renowned third-party agency for certification and test.

6. CQC: China Quality Certification Centre, a nationally authorised agency for certification in China.

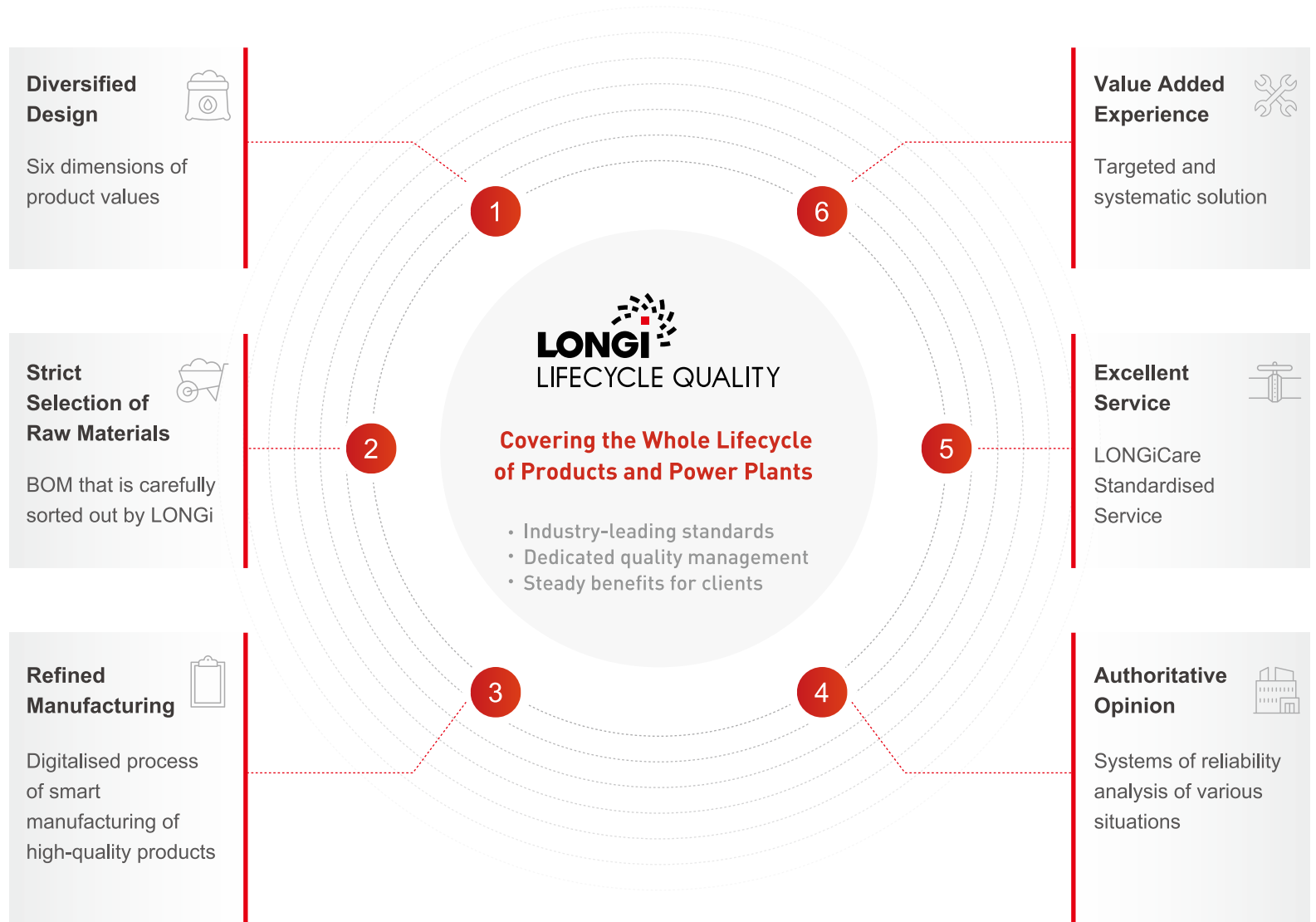
7. ASME: The American Society of Mechanical Engineers

8. ESA: Electrical Safety Authority

9. WCA: Workplace Conditions Assessment

LONGi Product Lifecycle Quality Standard

From module design to mass production, and then to post-sales service, LONGi always insists on achieving high quality aligned with high standards and integrates LONGi's "Product Lifecycle Quality Standard" into every link of product production and application. According to the Standard, we remain committed to four-tiered standardised management and six-pronged standards of the lifecycle of product and power plant lifecycle to ensure the efficient operation of the product in power plants for 25-30 years.



▲ LONGi Lifecycle Quality Standard

1.3 Green Product

LONGi provides practical routes and solutions for global decarbonisation actions from PV to hydrogen energy by fully guaranteeing the technical leadership and quality reliability of its products, accelerating the arrival of a “zero-carbon” era.

Green PV

In 2022, LONGi’s full series of wafer products passed French carbon footprint ECS certification. This carbon footprint certification covers the carbon emissions of the entire lifecycle of wafer products, including raw materials mining, manufacturing, transportation, and storage stages.



▲ French Carbon Footprint ECS Certification



▲ UL EPD Environmental Product Declaration Verification



Electricity Solutions, Promoting Green and Low-Carbon Energy

To drive the power industry to achieve carbon neutrality, LONGi keeps expanding the application scenarios of PV in industrial enterprises, including:

- Eco-friendly PV Power Plants: providing on-land and in-water solutions suitable for various environment.
- Solar+Energy Storage Plants Storage Plants: building a new-generation power system that integrates power generation source, grid, load, and storage capabilities.
- Hybrid Power Plants: building a complementary power supply system consisting of wind, hydro, thermal and other power types.



Household Solution, Reinvigorating and Greening Cities

Through breakthrough monocrystalline-silicon modules, LONGi continues to provide standard household solutions, custom household solutions and newly upgraded “LONGi Sunflower” and other solutions and services with high efficiency, high reliability and high yield, bringing customers a wonderful experience of close contact with green energy.



Industry Solutions to Benign Interaction between Ecology and Energy

LONGi actively explores the “PV+” comprehensive utilisation model, and keeps creating new scenarios for green industries:

- Industries: providing a decarbonisation solution for high energy-consuming industries.
- Construction: building integrated PV-BIPV and households PV.
- Transportation: building green power scenarios based on transportation, turning transportation lines into green energy production lines.
- Agri-PV: developing new PV businesses such as solar panel power generation, and planting, animal husbandry and fish farming underneath panels.

LONGi assists Solar Butterfly to travel around the world, exemplifying sustainable living ideas. Solar Butterfly is an environment-protection-oriented solar trailer project initiated by the Swiss climate activist Louis Palmer and his team. As the platinum sponsor of Solar Butterfly, we provide financial support and high-efficiency solar panels for the team. We have actively participated in Solar Butterfly's world tour, publicizing PV power generation applications and promoting green energy and low-carbon lifestyles. This special world tour is committed to arousing people's awareness of climate change and the urgency of protecting Earth, encouraging everyone to "think globally and act locally". In 2022, from Europe, the team embarked on a four-year global trip that would cross over 90 countries and regions.

▼ Solar Butterfly in Paris



▼ Solar Butterfly in Berlin



▼ Solar Butterfly in Switzerland



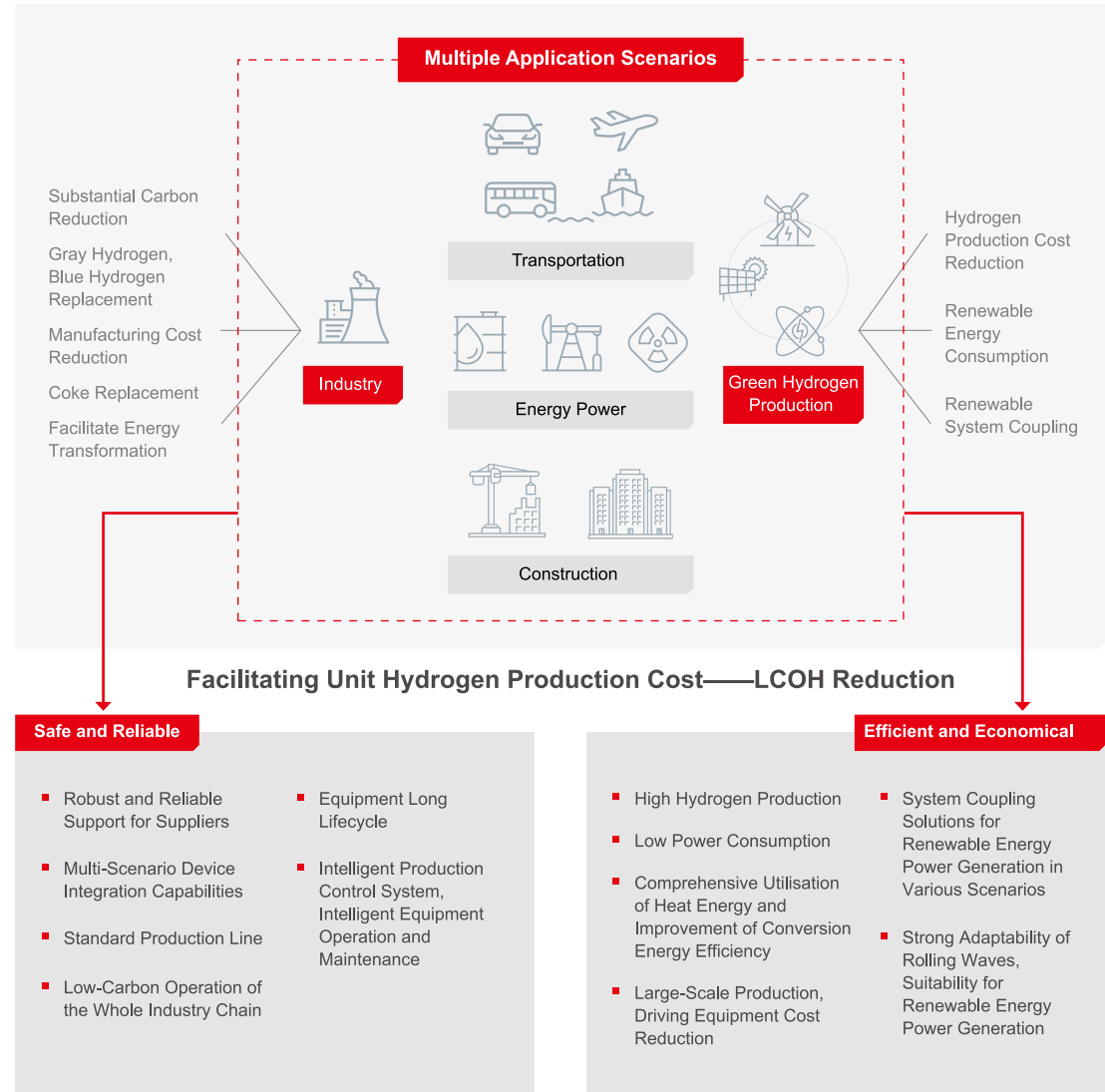
Green Hydrogen

The main business scope of LONGi Hydrogen covers the manufacture of alkaline water electrolysis hydrogen production equipment and the solution of hydrogen production systems by renewable energy. Statistics from Bloomberg New Energy Finance (BNEF) shows that LONGi's hydrogen production capacity will reach 1.5GW in 2022, ranking the first in the world; according to TrendBank's report, LONGi's hydrogen shipments rank among the top three in the country.

We provide a complete set of hydrogen production equipment with alkaline water electrolysis and gas-liquid separation frame. Through various safety compliance certifications and risk assessments, we have realised the safety and reliability of hydrogen products. Based on the application of automated production and control systems and the operation of intelligent operation and maintenance platforms, we have achieved intelligent and reliable production and operation. In February 2023, LONGi released the LONGi ALK Hi1 series products globally, which can reduce DC power consumption by more than 10% and greatly reduce LCOH¹⁰ in different scenarios.

We have been actively exploring the path of "multi-technology route + multi-scenario application" for green hydrogen, and have formulated modular and intelligent solutions, which are widely used in various scenarios such as petrochemical, chemical, electric power, iron and steel metallurgy, transportation, and other manufacturing industries. With advantages such as energy efficiency, automatic control, intelligent manufacturing, and real-time monitoring of operation.

10. With different hours of system utilisation, every 0.1kwh/Nm³ reduction in DC power consumption for hydrogen production can reduce LCOH (the levelized cost of hydrogen, unit hydrogen production cost) by 1.8%-2.2%, which is equivalent to reducing 10% to 25% the initial investment in hydrogen production equipment.



▲ Scene Graph of Green Hydrogen's "Multi-Technology Route + Multi-Scenario Application"

02 Green

SDG goals addressed in this section



405.9 billion

Environmental protection investment amounted to RMB405.9 million

4,278,675,400

Utilised 4,278,675,400 kWh of renewable energy

9.593 million

reducing water consumption by 9.593 million tonnes

In June, LONGi launched the Green Supply Chain Partner Empowerment Program

No significant violations of emissions or leaks

415

Implemented 415 energy efficiency improvement projects

607 million

Reducing annual electricity consumption by 607 million kWh

All LONGi subsidiaries have obtained the ISO 14001 environmental management system certification, and 17 bases received the ISO 50001 energy management system certification

In November, LONGi published its second White Paper on Climate Action

2.1 Protecting Green Ecology

LONGi upholds the concept of ecological protection throughout the full lifecycle of projects, and adopts multiple measures to deepen ecological environment protection in its operation regions.

We believe that unreasonable resource development is the root cause of biodiversity loss and environmental damage. Apart from our own operations, LONGi promotes PV applications in various scenarios, actively explores an ecologically-friendly “green mode”, boosts ecological environment restoration and biodiversity protection. In 2022, LONGi used green photovoltaics to help the green transformation of deserts, beaches and other landscapes, and helped protect wildlife habitats.



2.2 Climate Action

Since 2016, LONGi has marched on the road of green power development and taken green and clean energy as the main source of income. Deeply aware of the risks and opportunities climate change will bring to our company, we actively deploy our business to prevent risks and embrace opportunities.

Science-Based Targets Initiative (SBTi)

Following SBTi standards, LONGi simulated the emission reduction pathway under different scenarios, and set science-based targets which complied with its production and operation realities and were in line with the GHG emission target of the *Paris Agreement*.

LONGi's science-based targets:

60%

By 2030, the GHG emissions within the operational boundary will be reduced by 60% from the 2020 level.

20%

Carbon emission intensity per tonne of silicon material, per watt of cell, and per tonne of glass will be reduced by 20% compared to that of the 2020 level.



LONGi's total carbon emissions:

Indicator	Unit	2022	2021	2020
Scope 1	tCO ₂ e	158,202	94,750	92,665
Scope 2	tCO ₂ e	2,930,501	3,057,224	2,480,349
Scope 3 (partial ¹¹)	tCO ₂ e	29,747,826	22,683,132	20,920,503

11. Scope 3 GHG emissions counted include purchased goods and services, fuel- and energy-related activities, upstream transportation and distribution, waste generated in operations, business travel, employee commuting, downstream transportation and distribution, and end-of-life treatment of sold products.

The Three International Initiatives

Since joining RE100, EV100, and EP 100, LONGi continued to fulfil its commitments. Driven by the Sustainable Development and Climate Action Office, LONGi continuously breaks down the promised targets and promotes the implementation of the initiatives.

RE100

CLIMATE GROUP





CLIMATE GROUP
EP100




CLIMATE GROUP
EV100

Initiative	Commitment to Target	Progress in 2022
	Achieve 70% renewable electricity consumption by 2027, and 100% by 2028.	In 2022, green power usage accounted for 47.18% of LONGi's total power usage, achieving a 38.21% increase compared to that in 2021.
	Install Energy Management System for all operational sites by 2025 and improve power utilisation efficiency by 35% compared to that in 2015.	By 2022, a total of eight manufacturing bases had completed the construction of the energy management information system, and another manufacturing base completed the construction of the system in 2022; the overall energy use efficiency of the whole group in 2022 was 66.64% higher than that in 2015.
	Install vehicle charging facilities in 100% operational sites by 2030.	The Group organised a group-wide centralised procurement of charging piles, involving 7 provinces, 13 cities, and 23 business sites. The first batch of charging piles for "EV100" is expected to be put into use in 2023.

2.3 Environment Management

As a trailblazer in green development, LONGi values the impact our production and operations have on the environment. In 2022, to standardise the environmental management of LONGi and our subsidiaries, we introduced best practices, established a unified environmental management system, set up environmental target responsibility statements, tracked and implemented relevant evaluation systems, and conducted over a dozen special trainings for employees covering management of three wastes (i.e., gas, water and solid waste treatment), soil, and groundwater.

Management Item	Assessment Item	Key Assessment Indicator	Performance Results in 2022
 Resource circulation	Low-carbon products	Carbon footprint certification	The entire range of LONGi silicon products obtained French carbon footprint ECS certification.
			LR4-72, LR5-54, and LR5-72 series modules received Environmental Product Declaration (EPD) certifications from UL Solutions and EPD Italy.
 Energy use	Energy conservation	Electricity conservation	Reduced electricity consumption by 607 million kWh throughout the year.
	System certification	Number of bases certified by Energy Management System	10 new manufacturing bases obtained the Energy Management System certification.
	Policies	New energy management policies	Total of 4 policies published
	Key projects	Energy efficiency improvement projects	415 projects, including 288 electricity-saving projects
	Specific electricity consumption	The group-wide trend of specific electricity consumption	Decreased by 9.75% compared to the base year (2020)

Management Item	Assessment Item	Key Assessment Indicator	Performance Results in 2022
 Water resources	Alternative water sources	Volume of reclaimed wastewater	23,199,045 tonnes
		Volume of reclaimed rainwater volume	17,000-plus tonnes
	Specific water consumption	Group-wide trend of specific water consumption	Decreased by 26.93% compared to the base year (2020).
	Water conservation projects	Customised water conservation projects	95 water conservation projects
	Total water use intensity	Water use intensity	LONGi's total water use intensity registered 282.50 tonnes/RMB million in 2022, which decreased by 34.84% compared to 2021.
 Emissions management	Waste gas emissions	Excessive emissions	The Group reported no incidents of excessive emissions of waste gases.
	Wastewater discharge	Drainage at places of high baseline water stress	The drainage at places of high or extremely high baseline water stress was 0.
	Noise management	Noise complaints	No noise complaints were filed against LONGi.
 Green logistics	Supply chain emissions reduction	Packaging	The 2022 Circular Packaging promotion reduced carbon dioxide emissions by 1,114 tonnes in total.

03 Harmonious



Holding the philosophy of showing respect, creating opportunities, and providing incentives for talents, LONGi regards our employees as valuable and reliable growth partners. We constantly devote ourselves to social welfare by using our photovoltaic technologies to reduce poverty and promote quality education, creating a better world with goodwill.

SDG goals addressed in this section



4%

Covered around 4% of employees in the employee share ownership plan

91.12

Hit 91.12 points in the employee satisfaction survey on the corporate atmosphere

28.83

Trained employees with an average of 28.83 hours per person

2,217,208

Provided occupational health and safety training of 2,217,208 hours in total

20%

Women hold 20% of executive management positions

37.16 million

Offered labour union welfare of RMB37.16 million during the year

30

Planned and launched over 30 charitable programs

200,000

Benefited 200,000 people

3.1 Employee Well-Being

LONGi always attaches importance to protecting the rights and interests of employees and continuously improves the employee welfare system. We increase our support for employees' welfare, and strengthen our investment in employees' health and safety, and strive to create a harmonious, warm, comfortable and safe working environment.

We created talent introduction strategies to attract highly skilled talents worldwide and provide job opportunities for people and physically challenged people from different countries, ethnicities, cultures.

In 2022, LONGi attracted:



83 top talents



1,706 overseas employees
(non-Chinese nationals)



1,623 local employees
in overseas bases

471 local employees in
Kuching, Malaysia
1,152 in Vietnam

Occupational health and safety construction

One of the significant embodiments of LONGi's people-oriented principle is that we pay attention to and safeguard employees' occupational health and safety. We have developed internal administrative guidelines, including various management systems and committees, to manage and monitor OHS conditions. We provide employees with personal protective equipment and maintaining occupational disease protection facilities to mitigate workplace injury and harassment risks. We also pay close attention to the occupational health and safety of workers in the supply chain by providing training and taking prevention measures.

In 2022, we had:



2,217,208 hours of occupational health and safety training



3,145 occupational health and safety training sessions



1,175 times of emergency drills



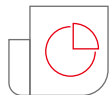
3.2 Community Improvement

With a sense of mission and responsibility, LONGi always regards social responsibility as an essential development strategy of the company. We effectively fulfil our responsibility as corporate citizens and dedicate ourselves to improving communities, contributing our strength to the healthy development of society.

Vulnerable groups

LONGi continues to pay attention to the development of the communities where we operate. We are committed to helping vulnerable groups through PV technology and contributing to social development.

In 2022, LONGi initiated several programs targeting various vulnerable groups:



Supported the Centre for Speech and Hearing, Mardan, with a 21kW rooftop solar power system.



Initiated "Lighting Africa- LONGi photovoltaic donation project" in Malawi. The 301kW high-efficiency photovoltaic modules donated by LONGi were successively sent to 12 destinations in Africa, including hospitals, clinics, schools and villages to generate electricity and irrigate farmland.



Launched the one-stop household PV solution, "LONGi Sunflower", providing households with green electricity in rural areas.

Educational support

In addition, LONGi has always been concerned about the improvement of education in less developed areas. We established the LONGi One Percent Foundation of RCSC in 2010 while continuously initiating public welfare projects to help children in impoverished areas get a better education. We have also launched the LONGi launched the M.N. Education Campus Lahore bursary project for the M.N education campus Private School in Pakistan, providing 20 impoverished students with a full year of tuition.

04 Trustworthy

LONGi believes that sound compliance operations remain the cornerstone of the growth. While deepening our business growth and creating more social value, we also integrate the philosophy of sustainable development into our corporate management and governance. With joint efforts from partners to standardise internal management, LONGi adheres to business ethics and therefore establishes a trustworthy corporate image.

SDG goals addressed in this section



128.998 billion

Operating revenue reached RMB128.998 billion

139.556 billion

Total assets reached RMB139.556 billion

14.812 billion

Net profit attributable to the parent company reached RMB14.812 billion

Obtained **ISO 37301** Compliance Management Systems certification

Obtained **5-star** certification of the GB/T 27922-2011 After-sales Service System of Commodity

3.033 billion

Cash dividends reached RMB3.033 billion

578

Conducted 578 anti-corruption training sessions and publicity events

83%

83% of new suppliers were screened using environmental criteria and 100% were screened using social criteria

Awarded by EUPD Research with the **"Top Brand PV"** badges for the Mexican, Chilean, and Latin American markets

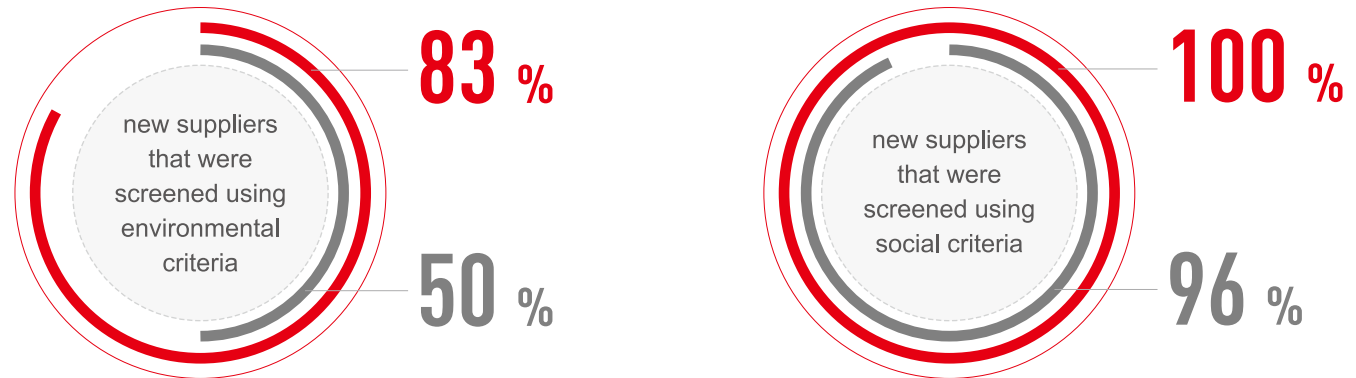
4.1 Responsible Supply Chain

Establishing a stable and healthy supply chain plays a crucial part in LONGi's pursuit of sustainable development. We remain steadfast in conveying the concept of sustainable development to all links of businesses in the supply chain.

Responsible Procurement

In 2022, we initiated a supplier due diligence investigation for the first time, assessing suppliers' environmental and social performance from nine aspects: employment, labour protection, union freedom and collective bargaining, fair treatment, working hours and wages, health and safety, supply chain management and traceability, environmental protection, legal compliance and fair competition.





In 2022, new suppliers that were screened using environmental criteria reached **83%**, while new suppliers that were screened using social criteria reached **100%**.



■ 2021 ■ 2022

Risk Management

We actively introduce third-party platform tools to identify, monitor and evaluate negative public opinion on suppliers' industrial and commercial information, business risks and legal proceedings. We have included environmental impact, social welfare, health and safety, and business ethics as areas of supplier risk management, and indicated our requirements in the *CSR Code of Conduct of LONGi Suppliers*.




Area	Requirements
 <p>Environmental impact</p>	<p>We prioritise suppliers with sound environmental management systems and policies. Suppliers with ISO 14001 environmental management system certification are given higher composite scores.</p>
 <p>Human rights</p>	<p>We require our suppliers to respect the basic human rights of their employees, prohibit child labour and forced labour, and not to engage in or tolerate any form of violation of labour laws and regulations.</p>
 <p>Conflict minerals</p>	<p>We do not purchase, use, or sell conflict minerals. We conduct due diligence audits on the origin of all raw materials throughout its supply chain, to ensure that there is no conflict minerals exist in the supply chain.</p>
 <p>Business ethics</p>	<p>We conduct integrity checks on our suppliers. We offer anonymous reporting channels for complaints regarding business integrity.</p>

4.2 Customer Relations


Guided by the service principles of being “Reliability, Value-add, Fulfillment”, LONGi takes a responsible attitude as its guiding principle and high-quality products as its tie, providing customers with high-quality, efficient, and high-level services to safeguard the achievement of their values.

Global Customer Service System

The three-tier global customer service system developed by LONGi provides customers with a comprehensive range of services and support.

 <p>First-level local technical service</p>	<p>Localised customer service interfaces are established in major regions worldwide to provide professional services such as rapid response to customer-end problems, detailed on-site research and analysis, and the development of product solutions.</p>
 <p>Second-level centre for empowerment support</p>	<p>Provides problem-solving capabilities for customer service and guarantees the resources required to address customer issues.</p>
 <p>Third-level headquarters expert support</p>	<p>Involves senior technical experts providing customers with professional support at the technical level.</p>

In 2022, EUPD Research awarded LONGi the “Top Brand PV” badges for the Mexican, Chilean, and Latin American markets.



▲ “Top Brand PV” Badges
Awarded by EUPD Research

Privacy Protection

LONGi believes that safeguarding information security and data privacy is the cornerstone of creating a high-quality user experience. With a commitment to protecting personal information protection in mind, LONGi has strengthened the company’s information security technology and developed a secure operating system which clarify the procedures, privacy design, data transfer, and the rights of data subjects for handling the information of customers, suppliers, partners, and employees. LONGi obtained the certification of ISO 27001 Information Security Management System in 2022 and the certification of ISO 27701 Privacy Information Management System in March 2023.

Key Performance

Highlights of LONGi's 2022 ESG Performance

Topic	Indicator	Unit	2022	2021	2020
Economic Performance	Total income	RMB billion	128.998	80.608	54.583
	Operating profit attributable to shareholders of the parent company	RMB billion	14.812	9.086	8.552
	Earnings per share	RMB/share	1.95	1.21	1.16
	Total assets	RMB billion	139.556	97.735	87.635
	Weighted average rate of return on common stockholders' equity	%	26.95	21.45	27.23
Environmental Performance	Environmental protection expenditure	RMB million	405.9006	/	/
	Renewable energy used by the Group	Gigawatt	4,278.6754	3,095.8582	2,557.8335
	Proportion of renewable energy used by the Group (%)	%	47.18	40.19	41.83
	Total emissions within the operational boundary	tCO ₂ e	3,088,703	3,151,974	2,573,014
	Greenhouse gas emissions avoided through the use of green electricity	tCO ₂ e	2,429,288	1,687,933	1,356,216
	Proportion of water reused	%	63.67	58.75	33.89
	Major environmental violations	times	0	0	0

Topic	Indicator	Unit	2022	2021	2020
Social Performance	R&D expenses	RMB billion	7.141	4.394	2.592
	Share of R&D expenses in revenue	%	5.54	5.43	4.75
	Total number of employees	person	60,601	49,967	46,631
	Employee training	person	479,046	243,504	736,656
	Labor union admission rate	%	100	100	100
	Union welfare	RMB million	37.16	39.66	21.52
	Satisfaction of corporate atmosphere	%	91.12	90.56	89.10
	Average EHS training per employee	hour	36.59	39.66	/
	Proportion of females among executive management	%	20	25	/
	Suppliers visited	Number	187	145	142
Governance Performance	Independent directors on the Board of Directors	person	3	3	3
	Number of female directors on the Board	person	2	3	3
	Integrity training	session	578	91	80

LONGi is an explorer in the clean energy sector and is committed to using clean energy to make a positive impact on society and the environment, and to ensuring that our operations and supply chain are compliant. We are actively developing technologies to improve the philosophy responsibility and work together to build a greener environment.

This summary contains highlights of LONGi's 2022 Sustainability Report, prepared in accordance with the Global Reporting Initiative (GRI) standards, SSE Guidelines No.1 on the Self-Regulation Rules for Listed Companies — Standardised Operation of the Shanghai Stock Exchange and aligned with other reporting frameworks such as the disclosure requirements of the Hong Kong Stock Exchange's Environmental, Social and Governance Reporting Guidelines, the Task Force on Climate-related Task Forces and the Sustainability Accounting Standards Board (SASB) standards.

We have also engaged third parties to validate our reports to ensure compliance with the standards.



To view or download the full report, please visit <https://www.longi.com/en/sustainable-development/>





LONGi Internal Complaints Reporting Channel

WeChat
Public Platform



LONGi Breeze



Reporting email

audit@longi.com

Reporting hotline

+86 029-84193391

+86 18089282003

For sales, product quality and service quality, please contact the 400 customer service by emailing to: Market@longi.com

For news media interview, please contact: PR@longi.com

For information of the company, please log on: <http://www.longi.com>

