

2021 Sustainability Report





LONGi is committed to be **the advocator, practitioner and leader in the sustainable development of global clean energy.**

On the way to achieve carbon neutrality, reducing the energy cost for the human beings is LONGi's fundamental mission and responsibility !

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■ About this Report

Introduction of Report

This report is the fifth sustainability/social responsibility report issued by LONGi since 2018, with the first report issued in March 2018 and the last in April 2021. This report is published on an annual basis, in line with the financial year. This report is based on the principles of objectivity, regulation, transparency and comprehensiveness, and discloses in detail LONGi's practices and performance in the economic, environmental, social and governance areas for the period from January 1 to December 31, 2021. To enhance the comparability and completeness of the report, partial content in this report are appropriately retroactive to previous years.

Scope of Report

The organization scope of this report covers LONGi Group's subsidiaries and controlling companies operating in the People's Republic of China, as well as production bases in the Federation of Malaysia and the Socialist Republic of Vietnam. Any inconsistencies between the scope of specific data and this report will be noted in the text.

Criteria of Report

- This Report complies with the requirements of the Notice of Shanghai Stock Exchange (SSE) on *Strengthening the Social Responsibility of Listed Companies* and the *Guidelines for the Disclosure of Environmental Information of Companies Listed on SSE* and the *Guidelines for the Preparation of the "Report on the Fulfillment of Social Responsibilities by Companies"*;
- This report has been prepared in accordance with the "Core Option" of the GRI Standards by the Global Sustainability Standards Board (GSSB);
- This report has been prepared with reference to the disclosure requirements of the *Environmental, Social and Governance Reporting Guide of the Stock Exchange of Hong Kong Limited*.
- This report has been prepared with reference to the Sustainability Accounting Standards Board ("SASB") and the Task Force on Climate Related Financial Disclosures ("TCFD").

Data Sources

The data sources used in the report include relevant statistical reports of LONGi Group, reports, press releases, third-party surveys or interviews, and public data of government departments, etc. The LONGi Group Board of Directors guarantees that there are no misrepresentation, misleading statements, or major omissions in this report.

Appellation of the Company

For ease of presentation and reading, "LONGi Green Energy Technology Co., Ltd" is referred to as "LONGi Group", "LONGi", "the Company", "the Group" or "We" in this report.

Access to the Report

You can download the Chinese and English versions of this report from the official website of LONGi Group at <http://www.longi.com>. In case of any discrepancy or ambiguity between these two versions, the Chinese version shall prevail.

If you have any questions and suggestions about the report, please feel free to send an email to CSR@longi.com, or call +86 4008601012.

Chairman's Message



In the past 2021, known as China's "First Year of Carbon Neutrality", the proposal of carbon peaking and carbon neutrality goals has endowed the development of renewable energy with a strong impetus. Meanwhile, the introduction of a series of policies, such as the "1+N" policy system based on peak carbon dioxide emissions and carbon neutrality and the construction of a new power system with new energy as the main mainstay, has further liberated the development potential of renewable energy.

In the macro context of global carbon neutrality, promoting the development of renewable energy to achieve carbon neutrality has evolved into a consensus and urgent action for China and major global economies. With the development of renewable energy entering a brand-new pattern, the world has officially ushered in the zero-carbon era. Conforming to this general trend, inexhaustible photovoltaic, as a precious wealth given by nature

to mankind, has become the most economical energy. In other words, it possesses the capability to play a pivotal core role in the future pattern and the zero-carbon era.

Meanwhile, the year 2021 is destined to be out of the common. Specifically, a wide range of adverse situations, encompassing the repeated outbreak of COVID-19 globally, price fluctuations concerning the supply chain, and the continuous escalation of international trade frictions, undoubtedly exert unprecedented pressure and challenges on the photovoltaic industry.

Nevertheless, adhering to the pioneering and enterprising spirit, LONGiers still serves more regions and countries with efficient and reliable products, thus delivering the most photovoltaic products to customers all over the world. Moreover, LONGi has persistently been committed to the innovative development

oriented by self-renewal and continuous breakthroughs, repeatedly setting new world records related to the conversion efficiency of new batteries. Upholding the future-based development philosophy, LONGi has pioneered the overall arrangement of the green hydrogen energy business and the continuous expansion of photovoltaic + application scenarios to promote the deep decarbonization of the industry. More importantly, LONGi has unwaveringly explored the sustainable development of the enterprise from the customer-oriented perspective, establishing the full-lifecycle product standards to promote the high-quality development of the industry.

**Consistent Belief of LONGiers:
Innovation-driven Development with
Credibility-oriented Value Creation**

In the face of the challenging 2021, LONGi realized the rapid growth of operating income and net profit through the steady operation. Also, we proactively maintained long-term interaction with investors, in response to the concerns of the capital market about the corporate environment, society, and governance (ESG). On the same note, LONGi respects the interests of investors, especially small and medium-sized investors, thereby achieving the win-win objective of the development of the company and the stable growth of investors' return on investment.

On the other hand, in the field of sustainable development, LONGi has firmly fulfilled the commitments of the RE100, EP100, and EV100 initiatives as a full member. To put it concretely, according to the requirements of the SBTi, we set the carbon emission reduction target for the next 10 years based on 2020. Besides, we also published the first sustainable development report, started the construction of the first zero-carbon factory in the photovoltaic industry, as well as disclosed the first white paper on climate action during the COP26 period. Assuredly, LONGi attaches great importance to the protection of human rights related to its workers and supply chain. To this end, LONGi has laid a solid foundation for sustainable development through diversified actions represented by continuously promoting the

construction of a green supply chain and improving compliance management capabilities. Simply put, a series of practical actions have ultimately pushed the sustainable development of LONGi to a new height.

Admittedly, these outstanding achievements made by LONGi should be attributed to the generous support of global customers and partners, the solidarity and dedication of nearly 50,000 employees, as well as the trust and praise from investors, local governments, communities, and all walks of life. Relevant facts have demonstrated that enterprises that can proactively respond to changes, dare to innovate, and be good at cooperation have the resilience and vitality to seek success. Likewise, the good deeds that can make continuous efforts and contributions to the development and prosperity of a community with a shared future for mankind reflect eternal value.

Under the guidance of the goal of carbon neutrality, LONGi has deeply realized that photovoltaic and green hydrogen energy industries will enter a comprehensive and rapid development stage. This means that global renewable energy will usher in an unprecedented promising market. Therefore, LONGi is full of confidence in the future. In the meantime, LONGi will continue to focus on scientific and technological innovation, promote the digital transformation of enterprises and strengthen the green development path, intending to constantly creating long-term value for global customers.

An ancient Chinese verse reads, "A journey of a thousand miles begins with a single step." On the road to practicing sustainable development, LONGi is willing to jointly work with all partners to continuously improve and build a clean and beautiful world based on our commitment and faith!

Chairman of LONGi Group
Zhong Baoshen

About LONGi

About Us

Headquartered in Xi'an, Shaanxi province, LONGi Green Energy Technology Co., Ltd. (LONGi Group) was founded in 2000 and publicly listed on the Shanghai Stock Exchange in April 2012 (SH.601012).

LONGi is committed to driving the transition of low-carbon energy, long focused on providing global customers with high-efficiency mono solar power generation solutions, and mainly specialized in the R&D, production and sales of mono ingots, wafers, cells and modules. It has developed into the world's largest mono wafer and module manufacturer.

Moreover, the company is actively exploring and developing new businesses, including the products and system solutions for utility applications on the ground power stations and distributed generation applications on roof (including BIPV) development. During this reporting period, the company had established Xi'an LONGi Hydrogen Energy Technology Co., Ltd., and strives to become a world-leading provider of large green hydrogen equipment and solution to provide green hydrogen solutions for global low-carbon transformation.

LONGi Group has laid out several manufacturing bases in China, Vietnam, Malaysia and other countries and regions, and branches in the United States, Japan, India, Australia, Thailand, the United Arab Emirates and other countries, with businesses in more than 150 countries and regions.



▲ Figure: Global Business Footprint of LONGi

📍 Production base 🏭 Hydrogen energy equipment factory 🏢 Marketing center 🏠 Warehouse

Business Segments

monocrystalline silicon wafers cells modules
 industrial and commercial distributed solutions
 green energy solutions hydrogen energy equipment

2021 Production Capacity (GW)

105GW Mono wafers **37GW** Mono cells **60GW** Mono modules

Market Capitalization

December 31, 2021
 CNY **466.597** billion

Share capital

December 31, 2021
5.413 billion

Business Philosophy

Our Mission

“Utilizing Solar Energy, Building a Green World”

We are committed to becoming a promoter of solar energy industry and facilitating the energy transition; becoming the paradigm in providing sustainable solar technology service and enabling greater returns for customers' investments; promoting the ecological restoration and creating a green planet for future generations.

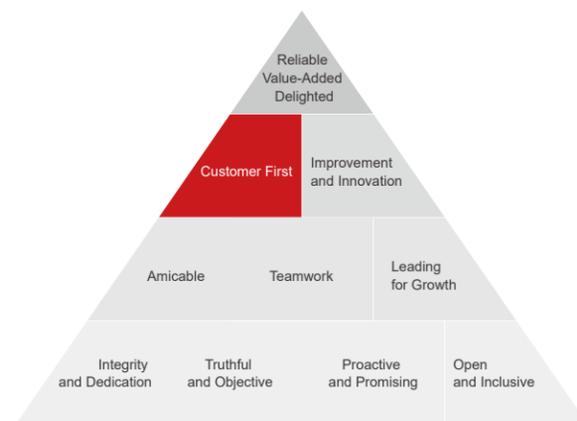
Our Vision

“Be the most valuable solar technology company in the world.”

Most Valuable – Providing customers with premium products and services, providing employees the platform for professional growth and continuous improvement, and providing shareholders the most competitive investment returns.

Solar Technology Company – Building a solar technology industry-leading brand through innovation and keeping products and services "one step ahead of others".

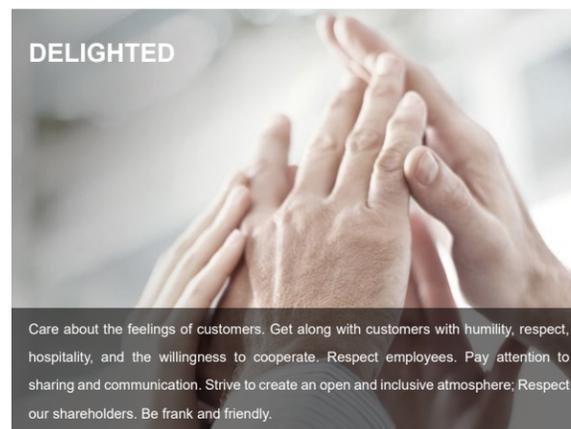
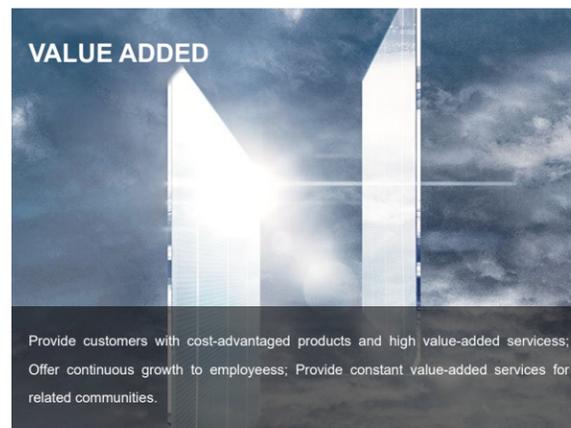
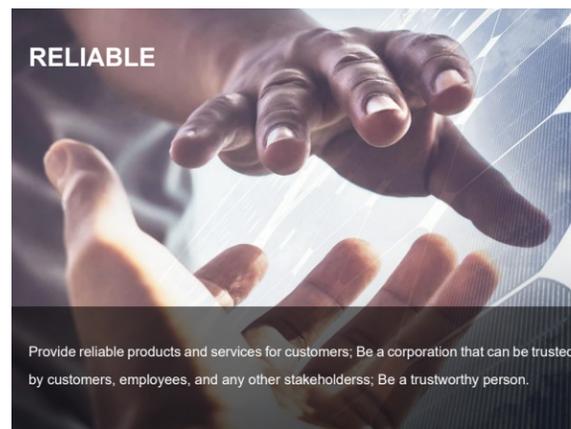
Code of Conduct



▲ Code of Conduct “Pyramid” of LONGi

Core values

“Reliable, Value-added, Delighted”



Honors and Awards

Global 2000 No. 839

— Forbes

Global 500 New Energy Companies 2021 (for 7 consecutive years)

— China Institute of Energy Economics Research

Scored 100% Bankability for two consecutive years

— Bloomberg New Energy Finance (BNFF)

China Top 500 Companies No. 365

— China Enterprise Confederation

China Top 500 Manufacturers No. 172

— China Enterprise Directors Association



China's Most Innovative Enterprises 2021

— Forbes

Top 500 China No. 210

— Fortune

Future 50 2021 No. 42

— Fortune

Hurun Global 500 2021 No. 195

— Hurun Research Institute

China Top 500 Private Companies No. 176

— All-China Federation of Industry and Commerce

Receive the highest rating of AAA consecutively
The only component supplier in the world with the highest rating

— PV Module Tech



Product Certificates

Intersolar AWARD in the Photovoltaics category

— Solar Promotion

CTF Witness Laboratory Qualification

— TÜV NORD

Award of PV Module Outdoor Energy Yield (Monofacial Group)

Award of PV Module Energy Yield Simulation (Bifacial Monocrystalline Group)

— TÜV Rheinland

Annual Technology Award, 2021

Gaogong Golden Globe Award

— Gaogongqingdian (www.gg-fc.com)

Named RETC “High Achiever” by RETC for the third time

Received High Achiever status in all 9 testing categories in 2021

— RETC (Renewable Energy Test Center)

“Distributed/User Component Brand Recommended by Installers” of 2021

Solar Cup

— Solarbe

Named “Top Performer” by PVEL for fifth consecutive year

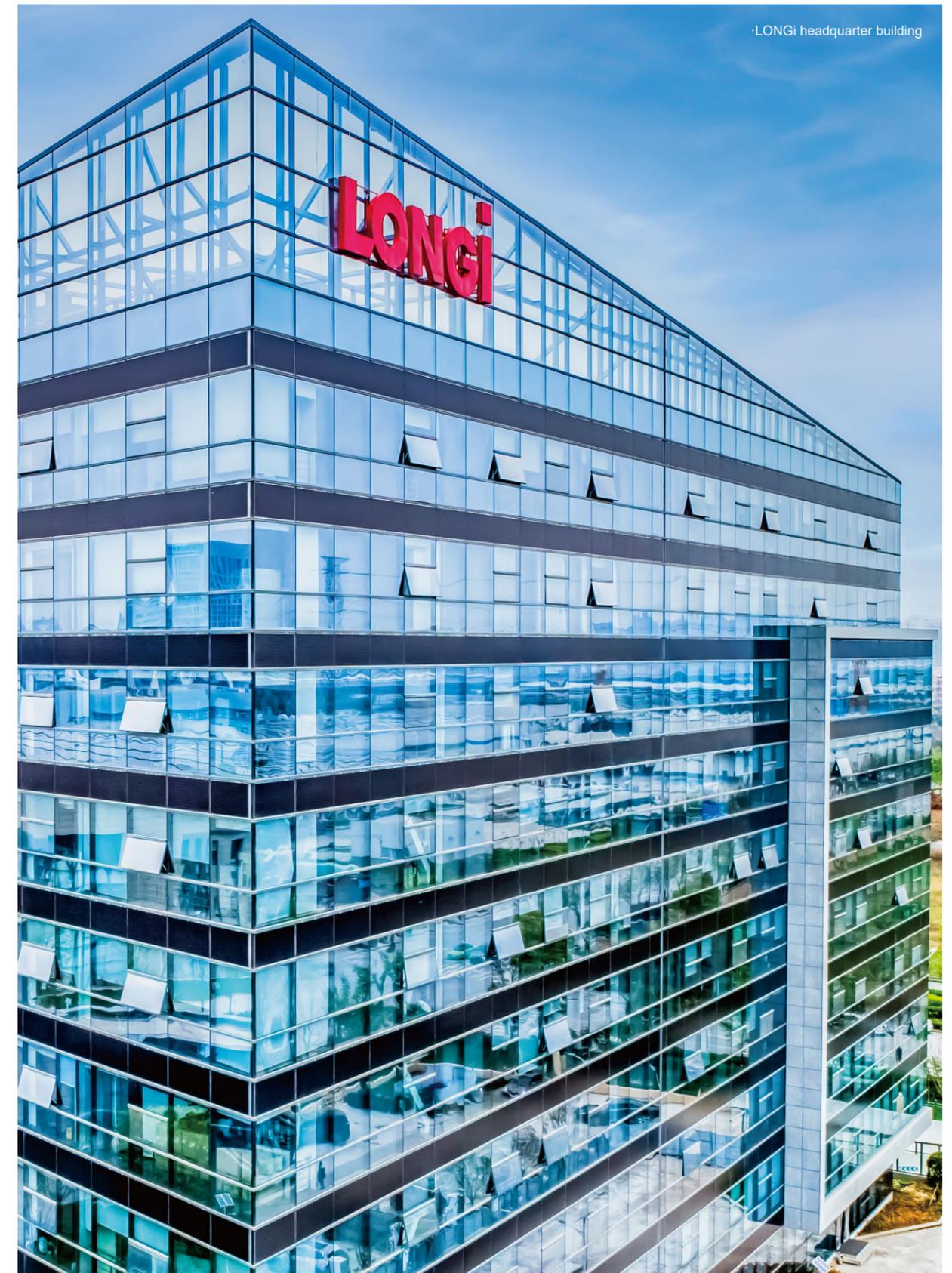
Received Top Performer status in all 6 testing categories in 2021

— PVEL (PV Evolution Labs)

Key Performance

Topic	Indicator	2021	2020	2019
Economic Performance 	Total income (CNY billion)	80.932	54.583	32.897
	Operating profit attributable to shareholders of the parent company (CNY billion)	9.086	8.552	5.280
	Earnings per share (CNY)	1.69	1.62	1.05
	Total assets (CNY billion)	97.735	87.635	59.304
	Weighted average rate of return on common stockholders'equity (%)	21.45	27.23	23.93
	R&D investment (CNY billion)	4.394	2.592	1.677
	The R&D operating revenue accounting for the total revenue (%)	5.43	4.75	5.10
Environmental Performance 	Renewable energy used by the Groupe (kWh)	309,585.82	255,783.35	17,5760.98
	Proportion of renewable energy used by the Group (%)	40.19	41.83	49.67
	Total emissions within the operational boundary (tCO2e)	3,151,974	2,573,014	2,212,479
	Carbon emissions reduced (tCO2e)	1,687,933	1,356,216	/
	Proportion of water reuse (%)	58.75	33.89	43.20
	Environmental violations	0	0	0
Social Performance 	Total number of employees (person)	49,967	46,631	32,873
	Employee training (person)	243,504	736,656	460,410
	Labor union admission rate (%)	100	100	100
	Benefit distributed (CNY million)	3949	2828	/
	Employee satisfaction score (%)	98.97	99.44	/
	Average hours of EHS trainings per employee (hours)	39.66	/	/
	Proportion of female among executive management (%)	25	/	/
Governance Performance 	Independent directors and non-executive directors on the Board of Directors (person)	4	4	4
	Number of female directors on the Board (person)	3	3	3
	Number of suppliers visited	145	142	/
	Integrity training sessions	91	80	/

Note: 1. The data are sourced from statistics of LONGi Group; 2. "/" indicates no statistical summarization



Transforming from Carbon Based Energy to Silicon Based Energy to Achieve Global Carbon Neutrality

Over the past century, as fossil fuels has been overconsumed, carbon emissions have intensify the contradiction between human being and nature.

In-depth decarbonization is hanging over head. Since the Paris Agreement was struck in 2015, 70% of the countries within the global energy map have made commitments on carbon neutrality. Carbon neutrality has become a global consensus for the survival.

Achieving carbon neutrality is a daunting task, and the energy revolution is in the irresistible trend. Fortunately, human being have already figured out the solution. We are gradually transforming the carbon based energy (represented by firewood, coal and oil). into the silicon based energy (represented by solar power). The whole world is on the path to this historical energy transformation.

Silicon Based Energy Has Become a New Trend of Future Energy Development.

Solar energy is the source of silicon based energy, and silicon based energy is the main carrier of solar energy. From quartz material to PV modules, the direct consumption in the whole process is estimated to be merely 0.4kWh/W. Even if consider all the direct and indirect energy consumption within a PV system, the energy consumption per module is only about 1kWh/W.

Solar energy is the source of silicon based energy, and the silicon based energy is the main utilization form of the solar energy.

Silicon-based photovoltaic is an energy carrier and amplifier the energy. The energy generated could be 45 times as much as consumption .

Solar energy is inexhaustible, and silicon is extremely abundant in the crustal derm.

The net output of silicon energy is 3,000 times that of the carbon based energy under the same quality.

Under general illumination conditions, PV modules can generate 1.5kWh of electricity per watt per year on average, and 45kWh of electricity per watt during the 30-year service life. Therefore, based on silicon, a PV module could convert 1kWh of electricity that it consumed into 45 kWh of electricity, and its energy density is roughly 3,000 times that of carbon based energy, representing the new trend of future energy development.

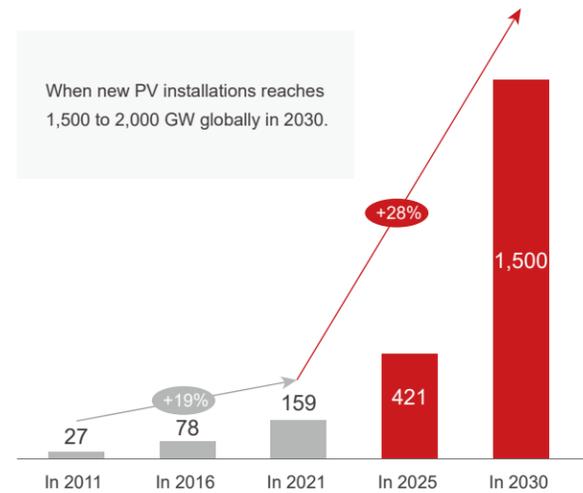
PV Power Generation Plays a Significant Role in Energy Transformation

In the past decade, major breakthroughs have been made in technology and cost of PV and power generation, and PV modules and PV has become the most economical source of electricity in most of countries. PV power generation has already played a significant role in energy transformation. Also, considered the dropping cost and industrial chain that covered majority of relevant industries, PV will be critical to national economy and social development.

Note: Each kilogram of silicon can be used to produce 400W PV products (the silicon consumption per watt is 2.5g) that can generate 18,000 kWh electricity (400W× annual power generating capacity per watt 1.5kWh × 30-year service life). After deduction of the energy consumption by production, the net output of electricity by 1kg silicon is 17,600kWh, equivalent to 15.136 × 10⁶ kilocalories (the calorific value of 1kWh is 860 kilocalories), which is 3,000 times the calorific value of 1kg coal (5,000 kilocalorie)

Silicon Metal	Polycrystalline Silicon	Monocrystalline Silicon Rod	Monocrystalline Silicon Wafer	Cell	Module	Power Station	Photovoltaic +
<ul style="list-style-type: none"> • Silica • Charcoal • Petroleum coke • Bituminous coal 	<ul style="list-style-type: none"> • Hydrofluoric acid • Hydrogen chloride • Silane • Chlorine • Trichlorosilane 	<ul style="list-style-type: none"> • Argon • Quartz crucible • Graphite products • Carbon-carbon material • High purity gallium 	<ul style="list-style-type: none"> • Diamond wire • Cutting fluid • Hydrogen peroxide • Sodium hydroxide • Hydrofluoric acid 	<ul style="list-style-type: none"> • Silver paste • Screen printing plate • Special gas • Chemicals 	<ul style="list-style-type: none"> • Silica gel • Junction box • Solder strip • Aluminum frame • Figured glass 	<ul style="list-style-type: none"> • Combiner box • GIS • Booster station • Cable • Inverter 	<ul style="list-style-type: none"> • Hydrogen production equipment • Carport • Steel plate • Agriculture
							

▼ The Trend of Global New Installed PV Capacity



When new PV installations reaches 1,500 to 2,000 GW globally in 2030.

PV production capacity distribution in 2030 (GW)

PV shipment distribution in China in 2030 (GW)



800GW

The annual export of China PV products by 2030

3.2 trillion

contribution to GDP (400GW domestic power stations and 800GW exported PV modules)

1.5 trillion

contribution to total exports (800GW exported PV modules)

3.6 trillion

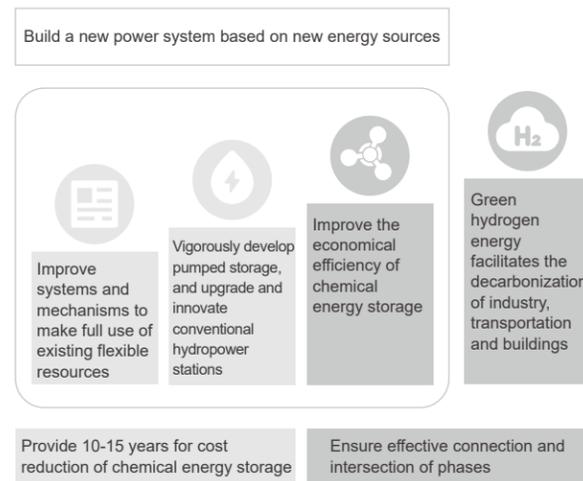
stimulate direct investment (investment in power stations and industrial sector)

2.45 million people

promote local employment (400GW domestic power stations and 800GW exported PV modules)

According to estimates, only if the global new installed PV capacity reach 1,500GW – 2,000GW by 2030 could it provide a sufficient support for global energy transformation and thus contribute to global carbon neutrality.

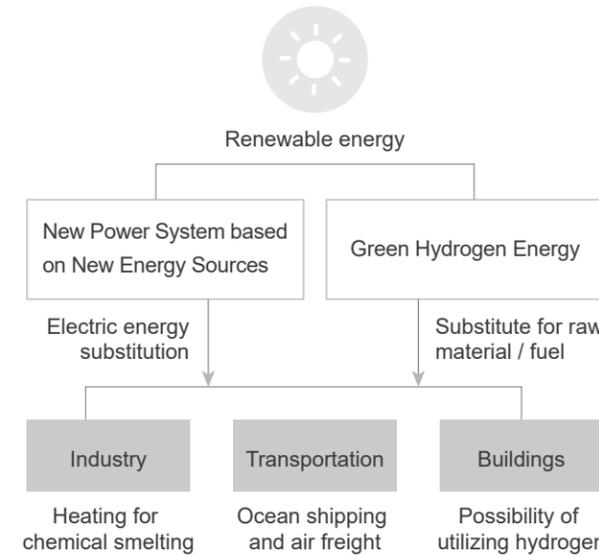
Four Steps to Achieve Carbon Neutrality



PV + Green Hydrogen Deepens Decarbonization in the Industrial, Transportation and Construction Sectors

The cost reductions in PV make it possible to produce hydrogen from renewable energy such as solar. This tackles the intermittence and storage issues of renewable energy, while displaces the fossil fuels by green hydrogen, establishing a perfect combination of "PV + green hydrogen".

From PV to hydrogen energy, LONGi's "PV + green hydrogen" pattern not only facilitates coordinated development throughout the supplychain but also boosts integration and development of conventional energy and new energy, accelerating the transformation from carbon based energy to silicon based energy to achieve carbon neutrality.



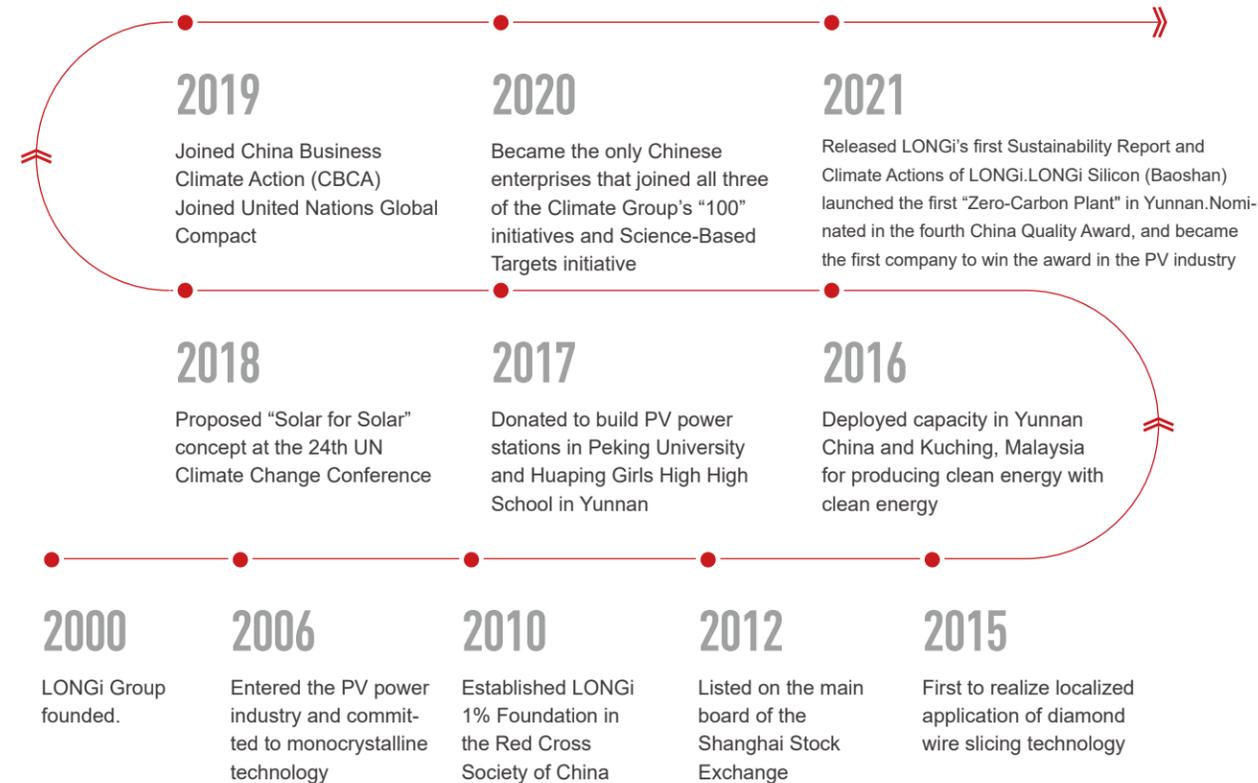
▼ LONGi Group and Sinopec Signed a Strategic Cooperation Agreement

On April 13th, LONGi Group and China Petroleum & Chemical Corporation (Sinopec) signed a strategic cooperation agreement in Beijing. The two parties will follow the national goal of achieving carbon peak by 2030 and carbon neutral by 2060 as a guide and cooperate in fields including distributed photovoltaics, solar + green hydrogen, chemical materials.



Sustainable Development Management

Sustainable Development History and Honors



Contributions to Sustainable Development

Included in 2021 Green Manufacturer List issued by MIIT (A PV technology enterprise awarded national "Green Factory", "Green Design Product" and "Green Supply Chain Management Enterprise") — Ministry of Industry and Information Technology	"China Best Investor Relationship Award for Boards of Directors of Listed Companies" "China Best Investor Relationship Award for Listed Companies" — Securities Times
Humanitarian Badge of Red Cross of China — Red Cross Society of China	Sustainable Development Model Enterprise Award — China Business Journal
China Green Award for Social Responsibility — Xinhua News Network	2021 "Technology Responsibility Pioneer 30" — China Social Responsibility 100 Forum
2021 Outstanding Social Responsibility Award for Chinese Public Companies — Finance	"ESG Top 100 A-Share Companies" — STCN
China Best Employer of 2021 — Employer Branding Forum, China	Ranked 47th in World's 100 Most Sustainable Corporations of 2022 — Corporate Knights

Sustainable Development Ratings



Sustainable Development Organizations and Initiatives



Sustainable Development Management System

Sustainable Development Philosophy

With sustainable wisdom, technology and management, LONGi will co-exist with the world and create long-term value.



Sustainable wisdom

LONGi insists on green development, puts forward the zero-carbon vision "Solar For Solar", promotes environmental improvements and ecological restoration to achieve sustainable development for mankind.



Sustainable technology

Led by technology, LONGi continuously decreases the cost of PV power per kilowatt-hour, provides reliable returns for customers, and promotes economical and clean energy for all.



Sustainable operation

LONGi keeps being robust and reliable, pursues the balance of economic benefits and social responsibility and harmonious coexistence of businesses and environment to make the world a better place.

Sustainable Development Governance

LONGi advances the systematic construction of sustainable development in accordance with domestic and international regulations and initiatives, improves corporate sustainable development management structure, perfects sustainable development management documentation, and integrates sustainable development issues into all businesses and management.

Sustainable development governance structure

Board Of Directors

Board of Director leads the sustainable development efforts of the Company, and instructs Strategy Committee of the Board of Director to review, make decisions and provide guidance on the sustainable development strategy and action plan of the Company.

Sustainable Development Committee

The Sustainable Development Committee was established at the management level. Brand Management Department of the Group takes the lead in the establishment of corporate sustainable development guidelines and policies and continuous improvement of sustainable development management framework.

Functional Departments

Brand Management Department of the Group coordinates with Human Resource Management Department, Energy and Water Resource Management Department, EHS Management Department, Supply Chain Management Department and production bases to integrate sustainable development into business processes to facilitate the systemic efforts of corporate sustainable development in LONGi.

SUSTAINABLE DEVELOPMENT GOALS

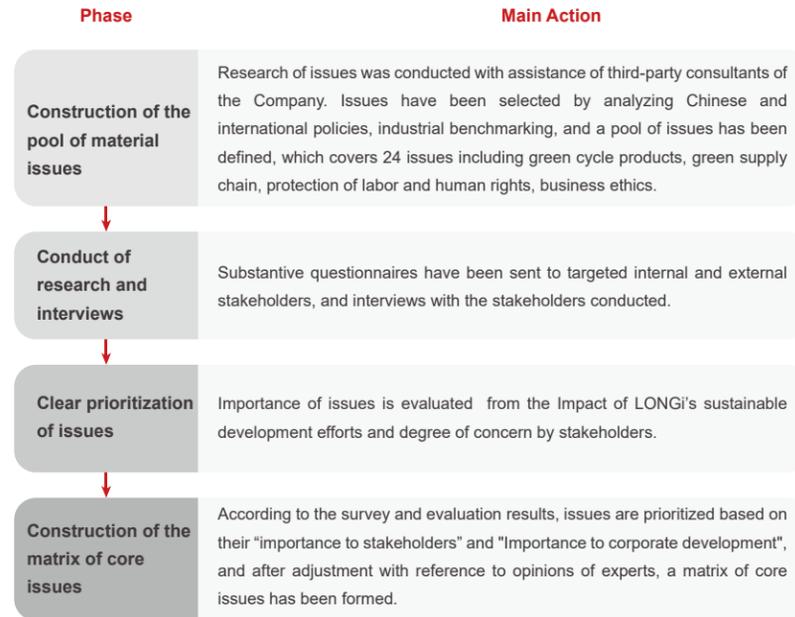


Sustainable Development Governance Criteria and Management Measures

Environmental management		Based on ISO 14001 Environmental Management System Certification and with the laws and regulations of countries where our operations are located as bottom line, <i>Environmental Monitoring Management System, Environmental Safety and Occupational Health Management Manual</i> and other guidelines have been established for EHS issues and waste disposal.
Energy management		Based on the ISO 50001 energy management system, the laws, regulations and standards of the countries and regions in which we operate, and based on the actual production and operation of the Group, <i>Energy Management System and Energy Data Management Measures</i> have been established.
GHG emissions management		Based on ISO 14061 Greenhouse Gases — Part 1: Specification with Guidance at the Organization Level for Quantification and Reporting of Greenhouse Gas Emissions and Removals, <i>GHG Accounting Guide</i> has been established as the <i>internal guidance</i> .
Supplier management		Based on Green Supply Chain Management System (GB/T33635), <i>Supplier Code of Conduct, Appendix of Conflict Minerals, Strategic Supplier Management Measures</i> and other guidelines have been established.
Compliance operation		Based on ISO 37301 Compliance Management System, <i>Anti-Commercial Bribery Management Measures, Risk Management Rules for Job Fraud, Management Rules for Professional Ethics of Audit and Supervisory Staff</i> and other guidelines have been established.
Employee security		With reference to relevant provisions of the <i>International Labor Conventions</i> , and based on the laws and regulations of countries where our operations are located, <i>Staff Care Management Provisions, Labor Dispute Mediation Management System, Group Welfare Manual</i> and other guidelines have been established to protect the rights and interests of employees.
Work safety		Based on work safety standardization (the Chinese Mainland) and ISO 45001 Occupational Health and Safety Management Systems, at least in accordance with the laws, regulations and standards of the country where operations are carried out, <i>Management System for Quality, Environmental, Occupational Health and Safety Accidents, Work Safety System</i> and other guidelines have been established.

Material Issues Analysis

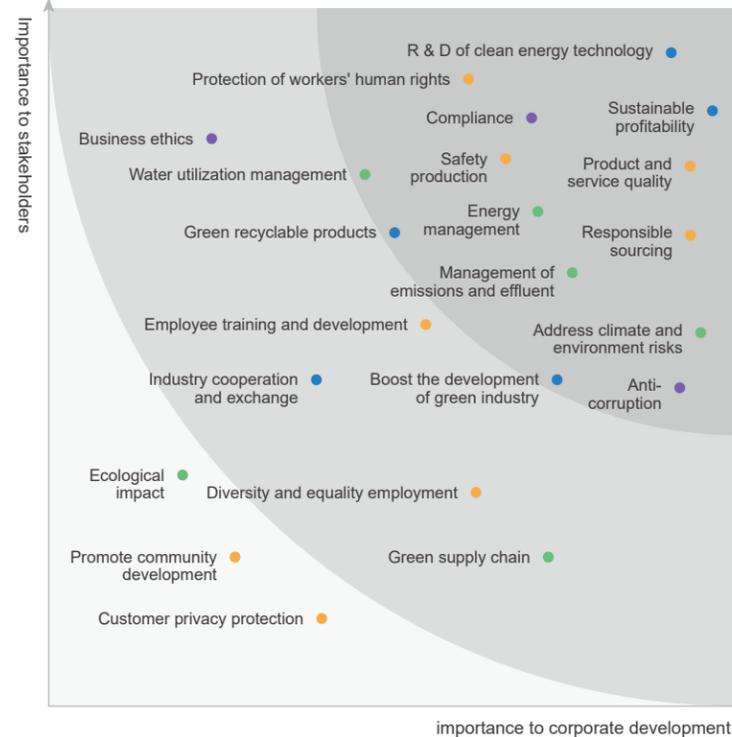
LONGi attaches importance to the identification and management of material sustainability issues. Based on the analysis of policies and industry and survey feedback from stakeholders, we ranked the importance level for LONGi and our stakeholders and then identified the key material topics through materiality matrix. These sustainability topics will be the key focus for LONGi and guide LONGi to further push ahead our sustainability strategies.



▲ Identification and Selection Process of Sustainability Issues

▼ Matrix of Material Sustainability Issues of LONGi in 2021

- Business Topics
 - Social Topics
 - Governance Topics
 - Environmental Topics
- High Materiality
- Medium Materiality
- Low Materiality



Communication with Stakeholders

We have established a regular stakeholder communication mechanism and communicate with our core stakeholders at least once or twice a year to fully understand their concerns and accurately respond to their demands. In addition, we also actively cooperate with various stakeholders to jointly contribute to sustainable development.



▼ Key Stakeholders' Expectations and Communication Channels of LONGi

Key Stakeholders	Main Expectations	Main Communication Channels
Customer	Reliable and efficient products Quality services Contract compliance	• Technical exchange conferences and new product launch • Industrial fairs and technical workshops • Official website and 400 service platforms and satisfaction surveys
Staff and Labor Union	Career development Health and safety Delighted working atmosphere Protection of rights and interests	• Workers congress and Labor Union Committee • Training and education, employer brand • LONGi Happy+ and a complaint mini program • Staff seminars, staff activities and staff club
Shareholders and investors	Return on investment Financial robustness	• Performance presentation, investor hotline and roadshows • Shareholders' meeting, regular reports and announcements and field surveys
Suppliers and partners	Green supply Chain Win-win cooperation Clean business environment Contract compliance	• Supplier training and supplier environment assessment • Supplier website platform and collaboration and innovation and suppliers' meeting • Code of conduct for suppliers and open procurement
Governments and regulators	Industry development Compliance	• Monitoring and inspection and policies and suggestions
Community and NGOs	Environmental protection Protection of rights and interests Safety Promotion of sustainable development	• Active communication with community and engagement in project cooperation • Charitable donations and public service activities • Participation in industry association and society and Enterprise Open Day



Responses to UN SDGs

LONGi push forward the integration of the UN 2030 Sustainable Development Goals (SDGs) with the business value chain, identifies the importance and significance of the relevant SDGs for the Company, and strives to include sustainability concepts and actions into corporate strategy and operations.

SDG	Responses from LONGi	Specific Chapters
	<ul style="list-style-type: none"> Supply efficient PV products to PV poverty alleviation projects and support rural revitalization to ensure stable income Donate PV power stations in underdeveloped regions to provide clean power for population without access to electricity 	2-4 5-4
	<ul style="list-style-type: none"> Apply PV technology to agriculture to help achieve green, high-yield and high-efficiency goals Reasonably use natural resources and space to achieve ecological governance and enhance adaptability of agriculture 	2-4
	<ul style="list-style-type: none"> Reduce or avoid the use of harmful production materials and dispose of waste in a harmless manner Prevent occupational diseases, improve the epidemic prevention and control system, and help the community fight epidemics 	2-2 4-4 5-1
	<ul style="list-style-type: none"> Build a comprehensive staff training system to help employees continuously improve their abilities and career value Cooperate with universities actively to provide support for green energy technology development and talent training Make donations to support education, build campus PV power stations, and implement PV technology education 	5-1 5-4 6-5
	<ul style="list-style-type: none"> Insist on equal pay for equal work for male and female employees and promote gender equality Set up a committee for female employees, build rooms for mothers and infants, and provide more benefits for female employees Actively create conditions for female employees to enter the Company's management, with female executive management percentage of 25% 	5-2
	<ul style="list-style-type: none"> Keep perfecting the production process, use high-efficiency pumps, optimize the circulating water system, and reduce the intensity of water consumption Improve the process of battery factory wastewater stations, fully recycle the wastewater, and discharge wastewater when it meets the discharge standards Apply PV technology to sewage plants to further reduce the sewage and tap water treatment costs 	4-3
	<ul style="list-style-type: none"> Continuously improve cell and module efficiency through technological innovation, thus to reduce the cost of clean energy Expand the use of renewable energy globally by providing efficient PV products 	1-3 2-3 3-1
	<ul style="list-style-type: none"> Drive the transition of energy structure through more applications of PV energy, and construct a new industry to boost employment Pursue an open, fair and equal employment policy, provide equal work opportunities for all employees, offer competitive salaries, and protect the health and safety of all employees Comply with international human rights laws and regulations, protect the basic human rights of internal and external employees, including those from supply chain, and eliminate the employment of child labor and forced labor practices 	2-3 5-1 5-3 6-1

SDG	Responses from LONGi	Specific Chapters
	<ul style="list-style-type: none"> Insist on constant investment in R&D and encourage innovation to achieve continuous technological progress and accelerated product replacement 	2-1 2-3 3-1
	<ul style="list-style-type: none"> Create a diverse and equal work environment that provides equal employment opportunities for all without discrimination based on ethnicity, race, nationality, religious beliefs, gender, age, disability, marital status, etc 	5-2
	<ul style="list-style-type: none"> Apply PV technology to high-speed trains and other public transport systems to reduce carbon emissions as well as operational losses Help He'nan and other places cope with flooding disasters caused by extreme weather, and support community recovery and reconstruction 	2-3 5-4
	<ul style="list-style-type: none"> Join the RE100 initiative to continuously increase the percentage of renewable electricity used in production operations Join the EP100 initiative to improve internal energy use efficiency Strictly follow the emission requirements of each country and region, improve and upgrade purification devices, sort and treat waste in a harmless manner, and reduce waste emissions Continuously research ways to maximize the value of materials, and increase the times waste materials are recycled 	1-3 2-2 4-2 4-4
	<ul style="list-style-type: none"> Submit a science-based carbon target commitment, and set emission reduction targets Join EV100 initiative to advance the application of EVs Identify and manage climate risks, establish a sound response mechanism for climate risks, and reduce the impact of climate risks 	1-1 1-2 1-5 1-6
	<ul style="list-style-type: none"> Improve in-house anti-fraud management,strengthen supplier integrity and anti-corruption publicity Optimize corporate governance system, and improve corporate governance level to achieve better corporate governance 	6-2 6-3 6-4
	<ul style="list-style-type: none"> Join the United Nations Global Compact (UNGC) to promote the implementation of the ten principles Build a green value chain, and promote sustainable development with our partners 	1-5 1-6 3-3 6-5



01

Taking Climate Actions

Responding to Climate Risks	27
Setting Science-based Targets	29
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Building a Green Value Chain	34

SDGs responded to in this chapter



Key Successes in 2021

60%

GHG emissions within the operational boundary will be reduced by 2030

20%

Carbon emission intensity per silicon materials, cell, and glass will be reduced by 2030

309.586 million kWh

Renewable energy used by the Group

40.19%

Proportion of renewable energy used by the Group

53.85%

Power utilization efficiency improved by (compared to 2015 baseline)

27

Major suppliers conduct the Green Supplier Assessment

Became a formal member of the “**Green Powered Future Mission**” as one of the first Chinese companies

Released first *White Paper on Climate Action*

Announced conversion of the Baoshan production base into LONGi’s first “**Zero-carbon Plant**” by 2023

Material Sustainability Issues Involved in this Chapter

- Climate Change
- Energy Conservation and Emission Reduction
- Green Supply Chain

■ Responding to Climate Risks

LONGi has marked climate actions as an important development strategy of the Company, defined the responsibilities of major organizations and departments on climate issues, and formed a governance structure, under the supervision and guidance of the Board, Sustainable Development Committee formulates action guidelines and the Brand Management implements the actions with other relevant departments.

We have integrated climate risks into company-wide risk management processes, identified the climate risks, and established a complete environmental to combat risk prevention and control measures and various Emergency management system for different risk sources, and combating the challenges brought by climate change. Moreover, we are concerned about the impact of climate change on our supply chain, and are working with our partners to enhance their abilities to address climate risks.



▼ LONGi's Climate Risk Identification and Management Mechanism



Risk Checklist Formulation

Integrates domestic and foreign trends and feedback from investors, exchanges and other stakeholders, the company's Sustainable Development Committee, group EHS managers, energy managers, and relevant persons in charge of the bases to jointly conduct annual assessments and submit a risk checklist to the Board for review.



Internal Risk Control

Established complete environmental and climate risk prevention and control measures and various Emergency management system for different risk sources, and set up different business departments (EHS, energy, base to monitor persistently.



Annual Risk Assessment

The final checklist will be submitted to the Board of Directors for an annual review, and, after approval, will be implemented by member departments of the Sustainable Development Committee.



External Risk Prevention and Control

Supply quality PV products to downstream customers to prevent risks from transition in the context of new energy development, Meanwhile, help upstream suppliers identify risks and opportunities related to climate change.

▼ LONGi Climate Risk Matrix

Risk Type	Risk Factor	Time Dimension	Impact	Measure
Physical Risks	Natural Disasters	Short-term	Disruption of operations and raw material supply due to extreme natural disasters	Optimize product packaging and select transportation services to minimize the impacts on global transportation.
	Climate Change	Long-term		Lay emphasis on the comprehensive treatment of the surroundings to reduce negative environmental impact on site selection, daily operation and management.
Transition Risks	Legal Compliance	Long-term	Risk of litigation for non-compliance with the law, and losses and fines for failure to meet requirements	Strictly abide by the regulatory requirements of the countries where our operations are located and where we sell our products, and establish a sound system and guarantee mechanism to ensure that we meet the environmental compliance requirements of each country where we operate.
	Emerging Regulations	Long-term	Compliance risk costs in carbon market due to failure to adjust operational strategies in a timely manner	Regularly test the relevant new regulatory requirements and continuously monitor the related risks to improve control over GHG emissions in daily management.
	Market Change	Short-term	Increasing direct costs due to reduced market subsidies	Improve the conversion efficiency of modules, enhance power generation capacity, cut the cost and increase profit by innovation.
Corporate Reputation	Mid-term	Reduced accesses to financing due to increasing negative stakeholder feedback	Actively respond to the market's and customers' expectations for low-carbon development, reform the development model and improve corporate low-carbon performance	



Setting Science-based Targets

In 2021, based on the accurate accounting of GHG emissions within the organization and in accordance with SBTi standards, we simulated the emission reduction pathway under different scenarios, identified the relevance for mission in different scenarios with SBTi minimum requirements, and established the emission reduction target that fulfilled the requirement. While complying with production and operation realities, LONGi's emission reduction target is ensured to be in line with the GHG emission target of *Paris Agreement*.

In accordance with the relevant standards and for GHG emission verification, we identified the GHG emission units within the operational boundary in a scientific manner, prepared accounting guidelines and conducted trainings, and established the group's GHG emissions verification system. We have completed the annual verification for 2021, and will consistently optimize the GHG emissions verification across the value chain to improve the data accuracy.

LONGi's Science-based Targets Are As Follows

By 2030, the GHG emissions within the operational boundary will be reduced by 60% from the 2020 level. Carbon emission intensity per ton of silicon material, per watt of cell and per ton of glass will be reduced by 20% compared to that of the 2020 level.



GHG emissions within the operational boundary will be reduced by 60%



Carbon emission intensity per 3 major materials will be reduced by 20%

LONGi's 2019-2021 GHG Emissions

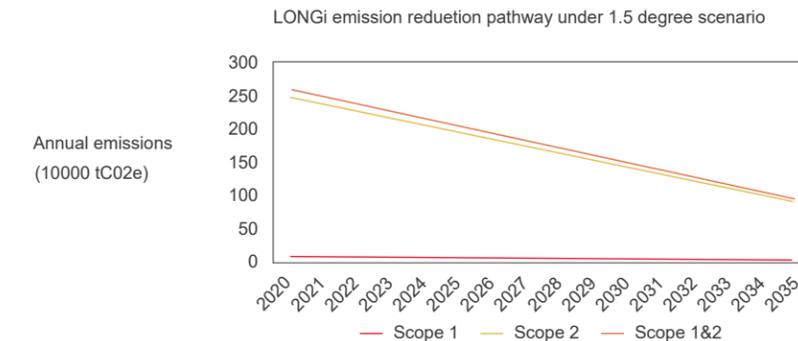
	2021	2020	2019
Total Emissions Within the Operational Boundary (tCO2e)	3,151,974	2,573,014	2,212,479
Scope 1 Direct Emissions (tCO2e)	94,750	92,665	14,927
Scope 2 Direct Emissions (tCO2e)	3,057,224	2,480,349	2,197,552
Scope 3 Value Chain Emissions (tCO2e)	22,683,132	20,920,503	—

1. The emissions were calculated in accordance with ISO 14064-1:2018; 2. The emissions within the operational boundary in 2021 covered all production bases, considered the emission reduction effects of renewable electricity, and are calculated by third-party agencies; 3. The emissions data in 2019 and 2020 do not cover the production base in Vietnam; 4. The emissions within the operational boundary in 2019 were not authenticated and do not consider the emission reduction effects of renewable electricity; 5. The value chain emissions in 2020-2021 were calculated by third-party agencies.

LONGi's Science-based Target setting and Scenario analysis

The minimum SBTi requirements will be as below on basis of actual GHG emissions of LONGi in 2020:

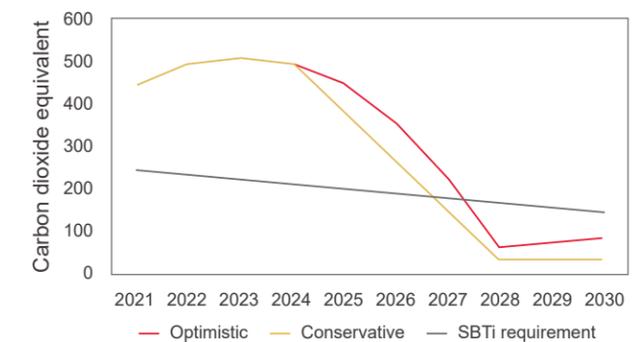
Scopes 1 & 2 (1.5°C scenario):



Scope 3 (absolute contraction, 1.5-2°C scenario):

	Base year(2020)	Target year(2030)	%Reduction
Company Scope 3 emissions-2C (tCO2e)	20,920,503.3	18,347,281.4	12.3%
Company Scope 3 emissions-WB2C (tCO2e)	20,920,503.3	15,690,377.5	25.0%
Company Scope 3 emissions-1.5C (tCO2e)	20,920,503.3	12,133,891.9	42.0%

According to internal development plans, PV industry development trend, and market share forecasts, the GHG emissions of LONGi under optimistic and conservative scenarios are predicted as below:



From the above predictions, the RE100 target will be fulfilled in 2028. Even if no other GHG emission control measures are taken, total emissions within the operational boundary in 2030 will be reduced by 68.6% and 84.3% respectively under the optimistic and conservative scenarios, compared with total emissions in 2020.

Implementation of the Three International Initiatives

As the only Chinese company that simultaneously joined RE100, EV100, and EP 100, LONGi is fulfilling its commitments in 2021, breaking down the promised targets, and building the internal system to promote the implementation of the four international initiatives.

In 2021, LONGi held 5 events along with renewable energy

vehicle enterprises and encouraged employees to replace EVs so as to implement the EV100 initiative. LONGi plans to set the installation of EV charging facilities, develop a management policy that encourages the use of EVs (e.g. priority admission, priority parking in the park), and install "PV-storage-charging" integrated intelligent charging sheds for parking in certain locations to provide more renewable electricity to EVs.

Commitment to Target

Achieve **70%** renewable electricity consumption by **2027** and **100%** by **2028**.

Install of Energy Management System for all operational sites by **2025** and to improve power utilization efficiency by **35%** on basis of that in 2015.

Install vehicle charging facilities in **100%** operational sites by **2030**.

Progress in 2021

RE100

The proportion of renewable electricity used in 2021 reached **40.19%** through corporate owned power generation facilities, RE purchased from on-site facilities owned by third-party, and RE purchased from the market

EP100

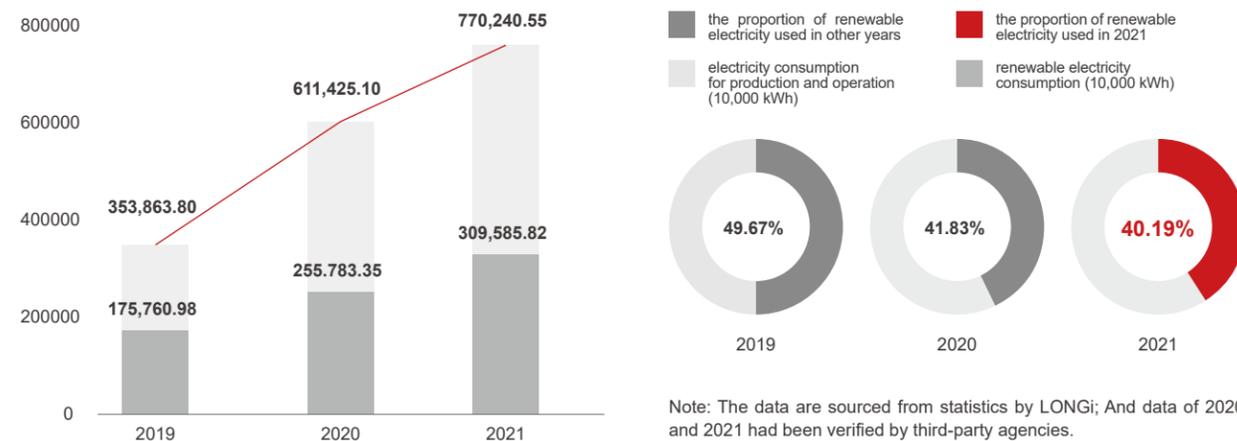
As of 2021, 8 out of **28** production sites under LONGi Group had installed Energy Management System, and power utilization efficiency had been improved by **53.85%** compared to the basis in 2015.

EV100

As of 2021, **5** out of 29 production sites (include the head office) under LONGi had installed **50** charging facilities, including **41** 7kW AC charging cables and **9** 40kW DC charging cables.

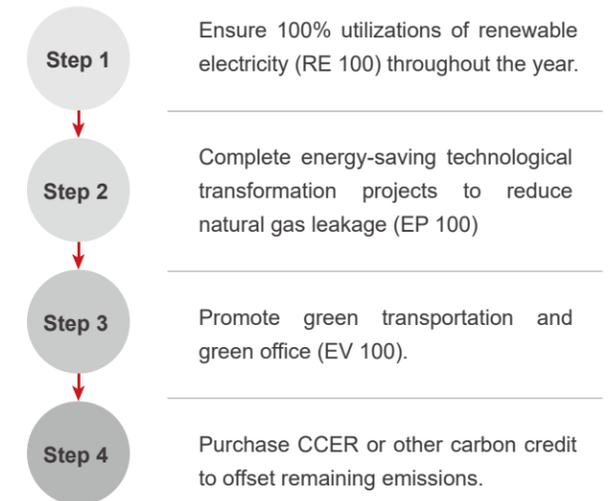
Although experiencing electricity shortage in 2021, LONGi's consumption of renewable electricity still exceeded 40%

2019-2021 LONGi Renewable electricity consumption statistics



"Zero-carbon Plants"

During the UNCCD 15th session of the conversion of the Parties(COP15), LONGi announced the company's Baoshan production base into the first "Zero-carbon Plant" by 2023. In addition, LONGi plans to achieve Zero Carbon operational boundary of Baoshan plant and implement the Three International Initiatives by utilizing 100% renewable electricity, completing energy-Saving technological transformation projects and purchasing CCER or other offset solutions.



▲ Launching Ceremony of "Zero-Carbon Plant" in LONGi

Stepping up Climate Leadership

In 2021, LONGi continued the active participation in global climate change events, demonstrating LONGi capabilities of its green visions on impactful platforms. LONGi had released its first White Paper on Climate Action to reveal our solutions in climate actions. In the future, we look forward to collaborating with more global partners to achieve greater change.

June 15th

United Nations Global Compact (UNGC) Leaders' Summit 2021

Li Zhenguo, Founder and President of LONGi Group, was invited to attend and spoke about "How to create a carbon-neutral future through jointly building the Digital Silk Road" on the summit.

August 19th

The 5th China-Arab States Expo

Zhong Baoshen, Chairman of LONGi Group, attended the opening ceremony and delivered a keynote speech with the theme of "PV Technology Enterprises Shoulder the Mission and Glory of Carbon Neutrality".

October 2nd

"Green Powered Future Mission" of the Mission Innovation ("MI")

LONGi Group became one of the first Chinese companies and the first company in PV industry to join the "Green Powered Future Mission" of the Mission Innovation ("MI") as a core member. "MI" is a multilateral cooperation mechanism in the field of clean energy launched by COP21, and 24 countries and the EU have officially joined this initiative.

October 15th

UNCCD 15th session of the Conference of the Parties(COP15)

At UN Biodiversity Conference (COP15), Li Zhenguo, the Founder and President of LONGi Group, announced to convert the company's Baoshan production base into the company's first "Zero-carbon Plant" by 2023.

November 4th

The UN Climate Change Conference of the Parties (COP26)

The Founder and president of LONGi group, Li Zhenguo has participated in a special company activity at COP26 in Glasgow via online video and released the company's first *White Paper on Climate Action*, outlining LONGi's "Commitment and Action to Address Climate Change". LONGi also became one of the first companies in the world to release the *White Paper on Climate Action*.



November 8th

The 4th China International Import Expo

LONGi Group attended the "International Carbon Neutrality and Green Investment Conference" and shared its vision and actions of 'zero carbon'.

November 11th

2021 Asia-Pacific Economic Cooperation (APEC) CEO Summit

Li Zhenguo, the President of LONGi, took part in a virtual roundtable discussion on the topic of "The Future of Energy", mainly focusing on the crucial roles and impact of photovoltaic and hydrogen energy in the process of global energy transition.

November 15th

The 23rd Africa Energy Forum

Francisco Estela, Technical Director of LONGi PV in Central and East Africa Sales Department, participated in the panel session "Building Capacity: Solar" and discussed how LONGi provides high quality PV system solutions for the African region, especially for areas without electricity.

Building a Green Value Chain

According to LONGi's Supplier Code of Conduct, suppliers must comply with domestic and foreign environmental protection laws and regulations, carry out management of hazardous substances including waste water and waste gas; minimize environmental pollution and continuously improve environmental protection performance; replace traditional energy with renewable energy as much as possible, continuously promote energy conservation and emission reduction, and practice the concept of a greener supply chain.

At the 2020 Supplier Conference, LONGi launched the LONGi Greener Supply Chain Carbon Reduction Initiative with more than 150 suppliers, calling on suppliers to take climate actions. LONGi motivated 27 suppliers to conduct the Green Supplier Assessment, carried out value chain emission accounting, and promoted energy conservation and emission reduction with remarkable outcomes.

In the future, we will continue to establish a green supply chain system, carry out in-depth green supplier evaluations, carry out more accurate value chain emission accounting, and provide energy-saving & emission reduction support for upstream and downstream suppliers.

Case

Asian Silicon Implement Energy Conservation in Response to LONGi's Initiative

As an important supplier and partner of LONGi, Asia Silicon (Qinghai) Co., Ltd. responded to LONGi Green Supply Chain Carbon Emission Reduction Initiative and carried out Energy conservation and emission reduction accordingly.

Through the upgrading projects, the company recovered and utilized the waste heat and saved 4.12t/h of low-pressure steam, equivalent to 247 10000 Nm³/year of natural gas, and 240 10000 kWh of electricity per year. Meanwhile, Asia Silicon also upgraded the electrolyzer for hydrogen production and replaced with the energy-saving electrolyzers, reducing the consumption of hydrogen electricity by 1.8kWh/Nm³ and saving 1.8 kWh of electricity per year. It has helped reduce the carbon footprint of LONGi's products while reducing its internal energy consumption.



02

Contributing to Zero-Carbon Future

Embracing Green Hydrogen Products	37
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Promoting Green Transformation	39
Promoting Ecological Harmony	43

SDGs responded to in this chapter



Key Successes in 2021

Formally established **Xi'an LONGi Hydrogen Technology Co., Ltd.**

Received **green manufacturing system certification of the China's Ministry of Industry and Information Technology (MIIT)**

Joined the **"PV Recycle Industry Development Center"** launched by China Green Supply Chain Alliance

LONGi Hi-MO 4 and Hi-MO 5 series modules received the **"Carbon Footprint Verification"** from BUREAU VERITA

LONGi wafers (182mm x 182mm) based Hi-MO 5 series module received the **"Carbon Footprint Verification"** from Certisolis

Signed a strategic cooperation agreement with **Sinopec** for in-depth cooperation in multiple fields

Established strategic partnership with **Center INT** to promote development of green energy in the built environment

Gained recognition as one of the **SDG good practices** by UN DESA

Material Sustainability Issues Involved in this Chapter

- Clean Energy Development • Facilitation of Green Transition
- Green and Circular Products • Protect Ecological Environment

Embracing Green Hydrogen Products

Hydrogen is considered a clean and high efficient secondary source of energy, as well as the key of deep decarbonization. Under the trend of carbon neutrality and the falling costs of solar and wind, electrolysis is expected to be the crucial means of hydrogen production. In 2018, LONGi began to conduct strategic research into the hydrogen value chain, and developed technologies in water electrolysis based hydrogen production equipment and PV hydrogen production. On Mar. 31, 2021, we officially established LONGi Hydrogen Energy Technology Co., Ltd, and committed to become a world-leading hydrogen technology company.

In October 2021, LONGi Hydrogen successfully launched its first alkaline water electrolyzer, marking a milestone in the Company's ability to deliver orders. By the end of 2021, LONGi Hydrogen Energy has already formed a capacity of 500MW of electrolyzed water hydrogen production equipment.

LONGi Hydrogen Energy's large-scale alkaline water electrolyzer has risen to the top of the industry's technological rankings. The electrolyzer adopts a modular and high current density design, and removes asbestos gauge to be more environmental friendly. A single electrolyzer may produce up to 1000Nm³/h of hydrogen, which could meet the requirements of the level I energy efficiency in the national codes. The distributed IO control system has high integration and saves materials. It has been granted 2 patent licenses for utility model and 5 patents for invention, awarded with the *Annual Technology Award of the 2021 Gaogong Golden Globe Award*.

1000Nm³/h

Hydrogen output of a single electrolyzer

2

Patent Licenses for utility model granted

5

Patents for invention

Awarded the *Annual Technology Award of the 2021 Gaogong Golden Globe Award*

At present, our "green power + green hydrogen" solution fully covers steel smelting, petroleum refining, synthetic ammonia, synthetic methanol and other manufacturing and living fields. The design of multiple electrolyzers corresponded to one gas-liquid separation system and gas purification system not only helps customers achieve large-scale production but also solves the problem of high investment in land, making the large-scale production of green hydrogen by green energy possible.

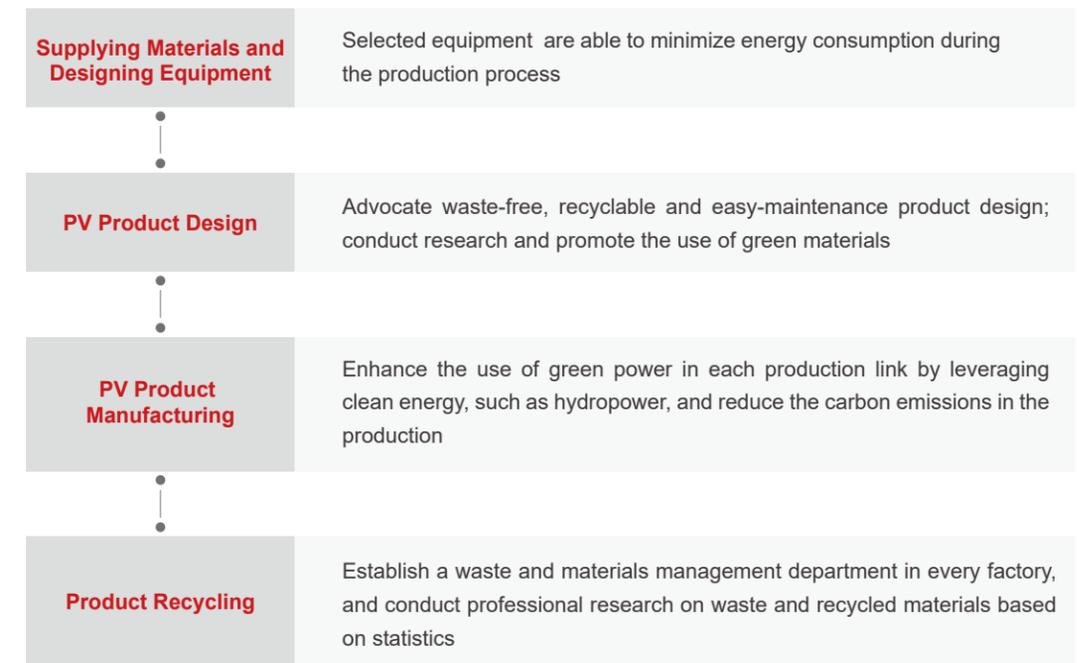
Developing Green Products

Green Lifecycle Management

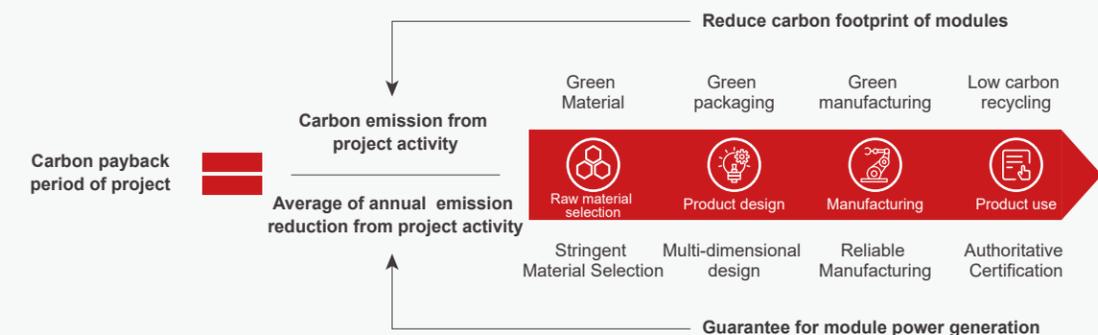
We observe the 3R (Reduce, Reuse, Recycle) manufacturing concept, and integrate sustainability into the supply, materials, product design, manufacturing and other links to control the carbon emissions throughout the product lifecycle. We also embed the green concepts in "LONGi Lifecycle Quality" to ensure that the module products are robust and reliable while also having environmental protection and low-carbon advantages.

In 2021 LONGi received the Green Manufacturing System Certification of China's Ministry of Industry and Information Technology (MIIT), and was the PV enterprise that recognized for "Green Factory", "Green Product" and "Green Supply Chains" at the national level. At present, LONGi Hi-MO series module received the "Carbon Footprint Verification" from BUREAU VERITA. Complying with French carbon footprint standards, including materials, technology, manufacturing, and energy consumption in transportation, LONGi (182mm x 182mm) wafers based Hi-MO 5 series module received the "Carbon Footprint Verification" from Certisolis.

In the future, LONGi will continue to improve the manufacturing process, optimize product lifecycle and carbon footprint management to create more low-carbon products for the whole lifecycle.



LONGi's Low Carbon Value Chain of Products



Recycling of Materials

Recycling is the "last mile" to realize the green development throughout the lifecycle of PV modules. With the rapid growth of PV industry, the recycling of PV products is of wide concern. LONGi also actively participates in the research on module recycling at home and abroad, and prepares for the recycling of modules.

We dispose the scrapped PV modules and equipment strictly in line with EU Waste Electrical and Electronic Equipment (WEEE) Directive and incorporate the considerations of recycling into the product design in advance.

At present, solar cells, glass, backplates, aluminum frames, EVA etc, and many elements of our PV product have recycling value, and over 90% of products are expected to be comprehensively recycled and reused.

In 2021, LONGi Joined the "PV Recycle Industry Development Center" launched by China Green Supply Chain Alliance, and explored recycling technology and policy of PV products with related enterprises and institutes.

In terms of product packaging, we require our suppliers to innovate their own packaging scheme in line with our standards and advocate to reduce packaging, using greener logistics and recycling across the whole industry chain.

90%

of products are expected to be comprehensively recycled and reused.

Joined the "PV Recycle Industry Development Center" launched by China Green Supply Chain Alliance

□ Promoting Green Transformation

Relies on the world's leading green energy solutions, LONGi promotes the upgrading and green transformation of traditional industries to build a "Green Energy Future".

Boosting Carbon Neutrality in the Electric Power Industry

Integrating the power supply and grid resources and supporting by flexible energy storage and other advanced technologies, LONGi paves the way for building a new-generation power system that integrates power generation source, grid, load, and storage capabilities.

LONGi is actively exploring the business practice of "wind-light-storage integration". The group has completed a number of hybrid power plants in Xiaohaotuxiang, (Shaanxi), Taiyangshan(Ningxia), and Datong(Shanxi), and makes the combination of "wind-light-storage integration" and other types of hybrid power solutions.possible.

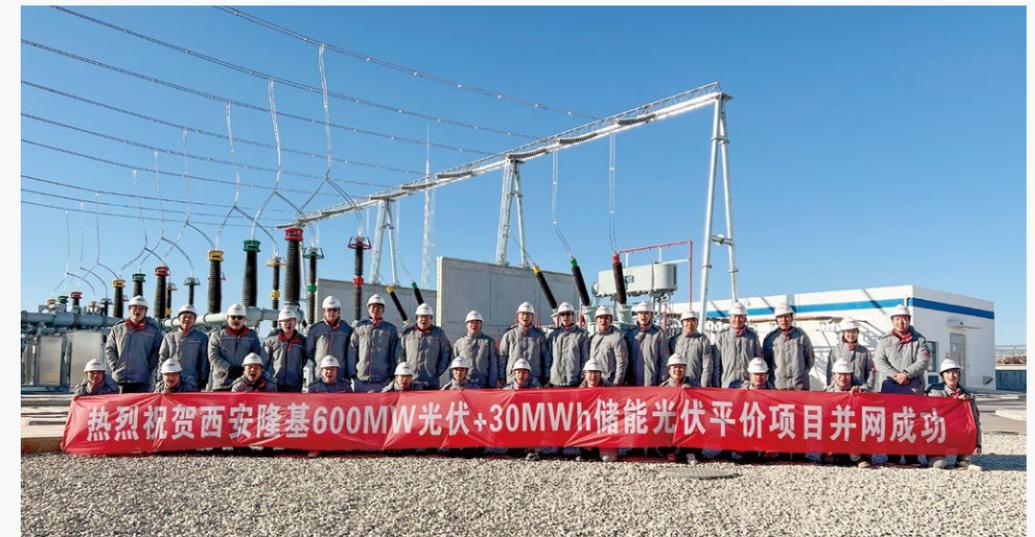
In May 2021, LONGi established a strategic cooperation with Mingyang Smart Energy, the leader in the wind power sector, and takes the "wind-light-storage-hydrogen integration" as one of the efficient applications to promote large-scale renewable energy generation projects.

In the future, LONGi will increase the R&D in hydrogen technology. We also plan to promote PV+pumped energy storage in areas which are rich in sunlight resources, near the sea, and take advantage of elevation difference, and develop hybrid power solutions.

▼ Case

Cost-effective Energy Storage and PV Power Generation Project in Datong, Shanxi

The design and construction scheme of BESS ratio is adopted for Shanxi Datong (LONGi) 600MW Solar PV + 30MWh BESS Parity Utility Scale Power Plant Project, which realizes GREEN POWER + BESS PEAK AND FREQUENCY REGULATION + COAL MINING SUBSIDENCE AREA ECOLOGICAL ENVIRONMENT MANAGEMENT, and establishes a solar PV + BESS project model. The project is equipped with a 30MW/30MWh BESS, which uses energy storage technology to regulate and stabilize the fluctuating power supply, ensuring a high proportion of solar PV power generation is connected to the power grid. The BESS power station adopts a modular design and is divided into 12 sets of 2.5MWh BESS containers, 12 sets of 2.5MW BESS step-up and inverter-transformer integrated unit. The BESS is connected to 35kV of 3 sets pf 240MVA main transformer in 3 circuits. The capacity of BESS in each circuit is 10MW/10MWh.



PV + Industry All-Scenerio Solutions

LONGi works with partners from various industries to develop PV solutions for all-scenerios, including transportation, industry, and construction.

“PV + Industry”

LONGi launched a decarbonization solution for industries, which has PV technology as the core, and boosted the green transformation of industrial enterprises. In October 2021, LONGi Hydrogen Energy's first alkaline water electrolyzer came off the assembly line, marking the company's preliminary capability to deliver green hydrogen orders.

▼ Case

“BIPV Distributed PV” Facilitates the Green Transformation of Traditional Gas Stations

As of December 2021, Sinopec and LONGi New Energy have signed a distributed PV project for 147 gas stations. By utilizing high-efficient BIPV distributed PV system, LONGi helped Sinopec to save energy and reduce emissions, accelerating the green transformation.



“PV + Transportation”

LONGi has implemented "PV+transportation" projects all over the world, effectively easing the strain on the urban power grid system and driving the greentransformation to achieve the goal of zero carbon.

“PV + Construction”

By leveraging the leading product quality and standardized technical team and design system, LONGi strengthens the core functions and key properties of PV modules as building materials, making buildings beautiful, eco-friendly, technological and creating considerable economic benefits. In order to expand the building integrated PV (BIPV) market, we have established a strategic cooperation with CENTER INT, the world's leading metal enclosure system manufacturer. At the 2021 China Building Science Conference and Green Intelligent Building Expo, two parties signed a strategic cooperation agreement to jointly promote the deployment of clean energy in the built environment by taking the advantages of CENTER INT's design capabilities and resources in roofing system of large public buildings.

□ Promoting Ecological Harmony

Solar-Ecological Restoration Solutions

From Kubuqi desert power stations, to the treatment of Lingwu coal mine goaf, Shanxi coal mine goaf and other projects, combining with its own advantages, LONGi has accumulated rich experiences in the construction of PV projects where controlling erosion and sand in the desert, rehabilitating old mines with PV, and provides ecological restoration solutions for problems such as land desertification, closed mines, saline-alkali soil and brackish water. The successful application of LONGi's module products in the desert areas in Africa and the Middle East has facilitated the development of the new model of "Solar-based Desertification Control Solutions" worldwide and demonstrated LONGi's strength to the ecological restoration of the earth.

Agri-voltaics

Currently, under the target of larger installed capacity, contradiction between PV power stations and land scarcity is becoming increasingly urgent. For the reason, LONGi has started to explore agri-voltaics, which strikes a balance between economic value creation and ecological restoration through comprehensive utilization of land. In addition to agriculture, PV power plants can also be combined with forestry, and animal husbandry in different terrains. LONGi hopes to promote the sustainable development of local economy, society and ecology by driving rural green industries through PV power plants. By the end of 2021, LONGi has developed four sets of Agriculture Related power plant solutions including agri-voltaics, forestry agri-voltaics, animal husbandry

agri-voltaics, and fishery agri-voltaics. In Qinghai, China, LONGi's " animal husbandry agri-voltaic, complemented with solar, has created a new development model for local animal husbandry. In Ningxia, China, LONGi has turned 6,670 hectares of desert into a wolfberry plantation, which combines PV power generation with agricultural industries.

In Tongchuan, Shaanxi, LONGi created developmental mode that integrates PV power generation, agriculture and poverty alleviation, which has gained recognition as one of the SDG good practices by UN DESA. "The project is highly compatible with sustainable development goals. The power station not only promotes the employment of local farmers and helps local rural revitalization, but also has great significance to ecological restoration of the Loess Plateau".

▼ Case

Harvest of wheat under solar panels

This happiness and hope are refreshing in Qianyang County of Baoji City in Shaanxi Province: The clean energy generating solar panels and the wheat waves underneath it, consisting a true scene of the "friendly solar power station "supplied by LONGi. This is LONGi Qianyang 100MW PV Combined Power Station Project. The complementary advantage integrated between solar and agriculture on this project will not only yield power and grains while cutting costs, saving energy and reducing carbon emissions, which will lead to the win-win results of solar development and rural vitalizations.



· Bifacial module power station in Kubuqi Desert, Ordos, Inner Mongolia



· LONGi Qianyang 100MW PV Combined Power Station Project



03

Creating Value for Customers

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Key Successes in 2021

CNY **4.394** billion
invested in R&D

5.43%
R&D operating investment
accounting for the total revenue

1,387
authorized patents
granted in total

50%
percentage of new suppliers
that were screened using
environmental criteria.

96%
percentage of new suppliers that
were screened using social criteria

289
suppliers participated in CSR
trainings

CNY **40.216** billion
business brand value

7 times
broke the world record regarding
PV cell conversion efficiency

Released the first "Lifecycle Quality" in the PV industry

Named as a "Top Performer" by PVEL for the fifth consecutive year and achieve this ranking in all 6 testing categories

Nominated for the 4th China Quality Award, as the first enterprise receiving such honor in the PV industry

Material Sustainability Issues Involved in this Chapter

- R&D and Innovation
- Product and Service Quality
- Responsible Sourcing
- Supply Chain Management

■ Creating Excellent Products

Leading Science and Technology Innovation

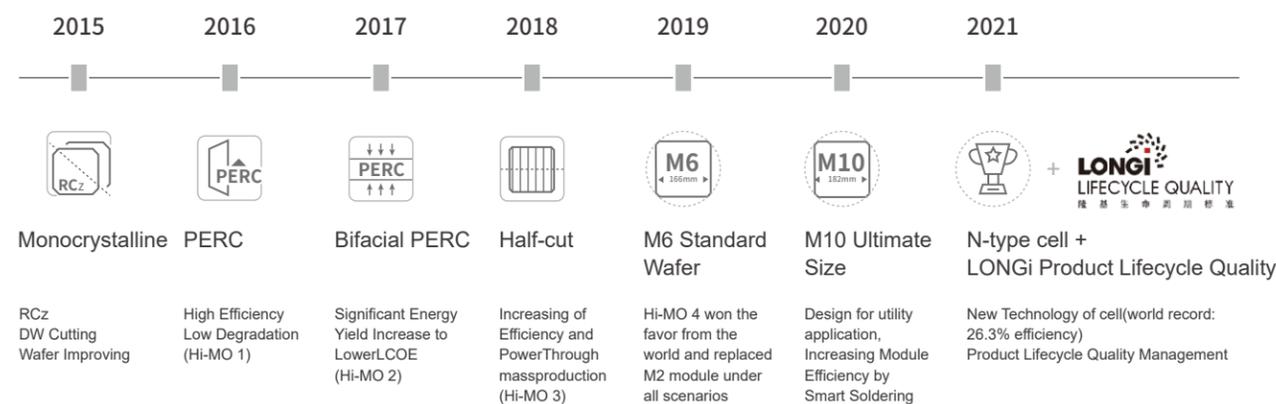
LONGi Group pursues independent innovation and forward-looking business deployments. From the customer's perspective, it maintains a high proportion of investment in R&D to ensure that its high-efficiency cells, module technology and products to be above and beyond basic industry benchmarks in efficiency, performance, quality and cost, and to maximize customer values.

In 2021, the Company set up the central research institute, allocated internal and external resources to support a multi-level R&D system, and set up a R&D team with over 1,000 people, including a number of industry-leading technical experts and leaders of research and technology. At present, LONGi has a first-class PV enterprise technology center, while it had established the strategic cooperative relations with well-known universities at home and abroad. In addition to in-depth technology R&D, we also continue to improve the management competency and testing capability of our laboratories.

We believe that the key to innovation in the PV industry is to improve cell conversion efficiency. Guided by the long-term value of end customers, we continued to challenge the limits of technology applications. In this year, LONGi has refreshed the world records of PV cell conversion efficiency for seven times, among which the conversion efficiency of n-type TOPCon, p-type TOPCon and n-type HJT has been pushed up to 25.21%, 25.19% and 26.30% respectively, with multiple key breakthroughs made in this industry.



▼ LONGi's Technological Innovation Leading Route



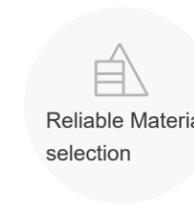
Delivering Reliable Products

We continued to improve our quality management system, and formulated series of documents such as *Integrated Quality Management System*, which are in implementing process. Based on rigorous testing of products, realistic scenario simulation is implemented to guarantee the delovering of high quality products to customers.

LONGi launched "Lifecycle Quality" standard , the first such standard for the solar PV industry, at SNEC 2021. From module design, through mass production to post-sales support, the standard adheres to the core concept of 'Customer Value First' throughout every stage. It also emphasizes the reliability in technology, material introduction, and manufacturing to secure the customer value.



In terms of R&D and testing, LONGi is equipped with first-class hardware. Our product R&D Centre has been carrying out in-depth cooperative research with scientific institutions, such as the University of New South Wales and the China Electric Institute (CEI), and owns several laboratories for raw material monitoring which had been certified by domestic and foreign authorities. In terms of module design, LONGi focuses on multi-dimensional analysis for applications under various scenarios to select the optimal solution. In terms of product testing, LONGi ensures the suitability and reliability of the products by adopting differentiated test methods under different application scenarios and extreme climatic conditions during module design.

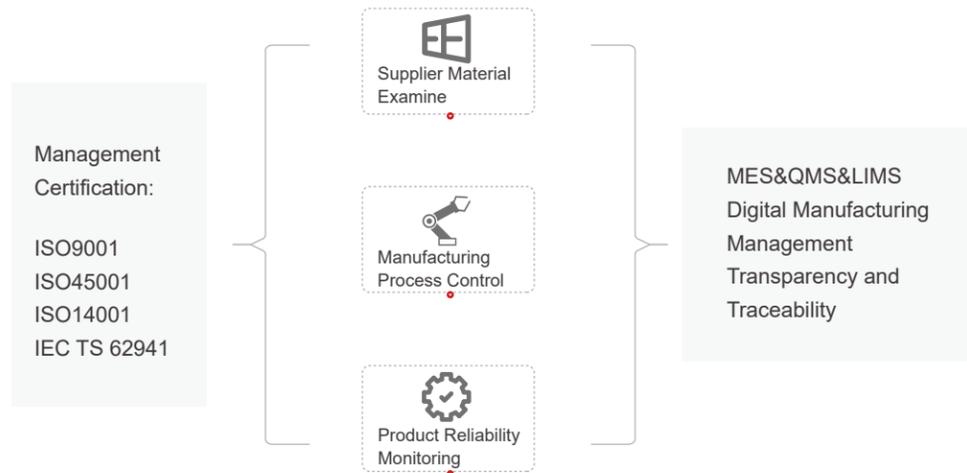


LONGi commits that there will be no concession on material or quality standards when upgrading the power or reducing costs. As for material selection, only those suppliers meeting the LONGi BOM standards can be considered. Products from selected suppliers are subject to rigorous testing, and only those that pass this rigorous testing process can be introduced into mass production. To strengthen reliability of these materials, LONGi not only conducts special tightened tests on key materials, but also benchmarks its material standards against national and industrial standards to fully secure the product quality and performance.

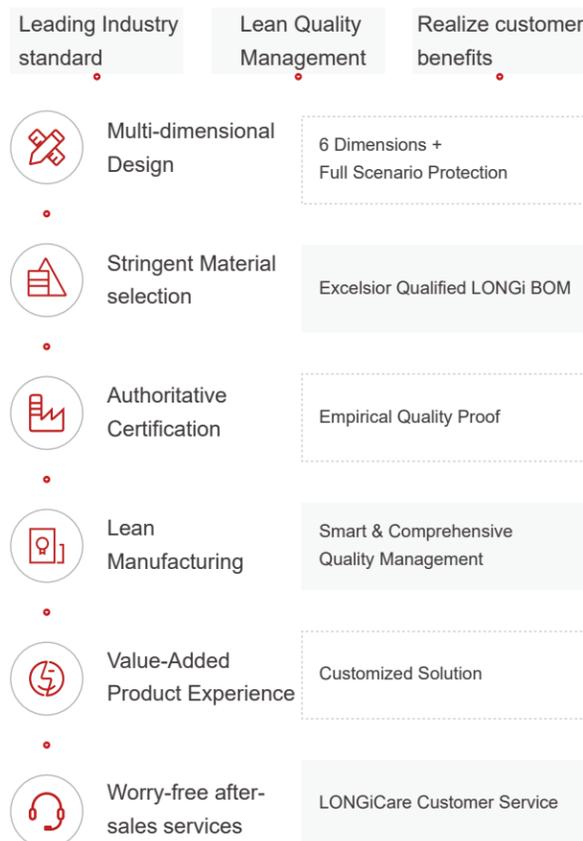


LONGi has adopted management systems, including ISO9001, ISO45001, ISO14001 and IEC TS 62941. LONGi conducts comprehensive annual, quarterly and monthly product performance monitoring. Meanwhile, LONGi adopts digital methods to attach a specific QR code to each of its modules to handle the anti-counterfeiting validation, so that customers are able to verify the authenticity of modules and check product documentation in a timely manner, hence improving customers' perception of the product quality.

▼ Quality Control Process of LONGi's Products



▼ LONGi Lifecycle Quality Runs Through Every Product Stage



▣ Providing Quality Service



In the past two decades, LONGi has adhered to its core concept of 'Customer Value First'. Our standardized service system throughout the lifecycle is committed to improving customers' satisfaction and creating greater value and long-term investment return for them.



Wang Xiaoyong,
Director of Technical Service Department
under LONGi Global Marketing and Sales Center

Ensuring Customers' Rights and Interests

LONGi provides customers with standardized services covering full lifecycle. We refer to the Customer Satisfaction Measurement Management System, create a complete customer service document for every customer, establish three major support platforms for customer service, and constantly improves the breadth and depth of services.

By December 2021, LONGi has set up a customer service network worldwide

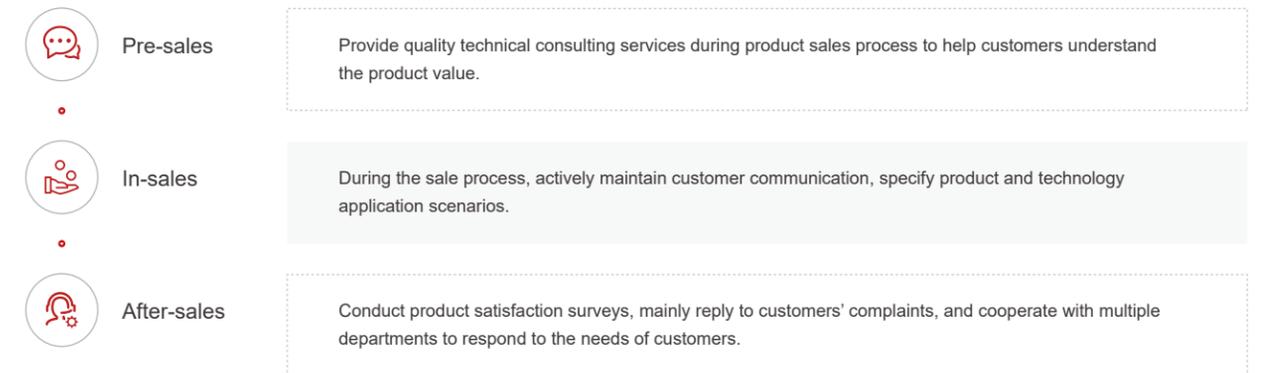
over **10** marketing and service centers (covering Asia Pacific, Europe, America, Middle East, Africa and other regions)

nearly **300** provided customers with large-scale project technical consultations in 2021

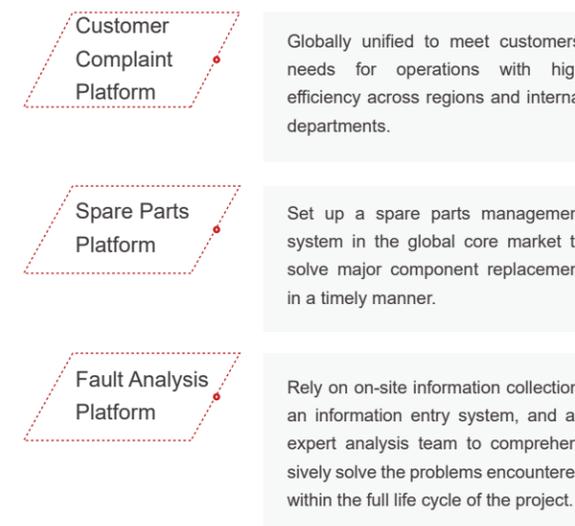
over **60** on-site installation and maintenance trainings

over **20** power stations visited

▼ The Full Process of Customer Services



▼ Three Supporting Platforms



Protecting Customer Value

We listen to customers' needs, protect customer value and provide products and services that can better satisfy their demands. The Company divided customer feedback issues and opinions into three categories, "control issues", "standard issues" and "customer communication", and clarified the main responsibility of management, promoted problem rectification, and improvement of quality.

Product R&D Stage

•Deeply align with progress of new product development, actively listen to customers' needs and manage unexpected events

Product Verification Stage

•Work closely with customer service department and organize cross-departmental quality verification, to guarantee one-time customer verification pass rate while fulfilling the requirements of rapid production.

Product Sales Stage

•Have regular customer visits and conduct customer satisfaction surveys.
•Establish and improve customer feedback mechanisms and feedback processing procedures.

To further satisfy customers' needs for business, product technology and delivery service solutions in a full lifecycle, LONGi has started a new service mode of "Business-Technology-Service Integration". Account managers, product solution managers, and service managers communicate with customers on all aspects related to their own field of expertise. With "Expert Consulting" team services, direct contact with the professional team in the full lifecycle is realized to answer customers' questions in an efficient and professional manner, so that customers can have access to reliable products and services.

In the future, we will extend to customers' side to strengthen the connection between supplier and customers; gradually integrate order and logistics information as well as cross-field information; set up a customer-oriented project supply chain organization to further improve customer satisfaction and maximize value for customers.

"In 2021, LONGi overcame the difficulties from the sharp rise of raw materials' prices in the PV industry chain. As LONGi always looks at the big picture and values credibility, the Company completed the supply of modules for Chengcheng and Baishui PV projects, and helped put the projects into production, which laid a solid foundation for future deepening cooperation."

Datang Shaanxi Power Generation Co., Ltd

Caring for SME Customers

Under the trend of energy transformation, we see the challenges and operational vulnerabilities faced by SME customers. For their special needs, we developed diversified household PV solutions and service modes under multiple application scenarios.

▼ In Australia, local wineries take advantage of energy from LONGi's solar panels



▼ In US, LONGi's solar panels helped local workshops decrease energy costs



Since 2020, we have conducted "Sunshine Lighting Every Household" patrol inspection program to inspect power stations on site, aiming to help users create more value-added power stations and guarantee the safety of their power stations in the full lifecycle.

By December 2021, we have visited and inspected



Strengthening Supply Chain Management



LONGi is committed to the concept of "win-win cooperation, interconnected innovation and green carbon reduction" and has fully integrated the concept of sustainable development into our supply chain management, driving the concept of responsible supply chain to further development and continuously reducing the environmental and social risks of the overall industry chain in the PV industry.



Responsible Sourcing

We have fully launched supplier access standards and thresholds in 2021. Suppliers of production materials are required to have Quality Management System, Environmental Management System and Occupation Health Safety Management System Certifications. For those eligible suppliers, only outstanding performers will be selected. For suppliers of bulk production materials, the Supply Chain Management Center screened 50% of new suppliers by using environmental criteria and 96% of new suppliers by using social criteria in 2021. We also promoted green suppliers' self-assessment, and monitored the environmental information of 30 suppliers through the supply chain management platform of the of Public and Environmental Affairs (IPE).



We established a vertically integrated traceability management system for related products, and improved our traceability management capability by building a traceable system and adopting technical means. The raw materials of our products can be traced back to the origin of the first tier suppliers and our supply chain management is in compliance with legal requirements of regions or countries where the project is located. At present, we joined the Working Group for Assessing traceability options for the Supply Chain Monitoring Programme Prepared for SolarPower Europe and Solar Energy UK Supply Chain Transparency, and actively promoted the formulation of PV supply chain traceability programs to mitigate social and environmental risks caused by uncertainties in global supply chains.

The modules certified by certification bodies including



Moreover, all BOM materials of LONGi's modules have passed tests and certifications of external organizations. We also conducted tightened tests on some products with the rigorous standards according to customers' needs. We made a promise to avoid purchase and use of controversial materials. The Conflict Minerals Code of Conduct was issued to clarify suppliers' responsibility to avoid purchasing "conflict minerals". It is applicable to all suppliers who provide LONGi with raw materials, parts, modules, and subassemblies to integrate into LONGi's products, as well as those who supply products to LONGi for resale.

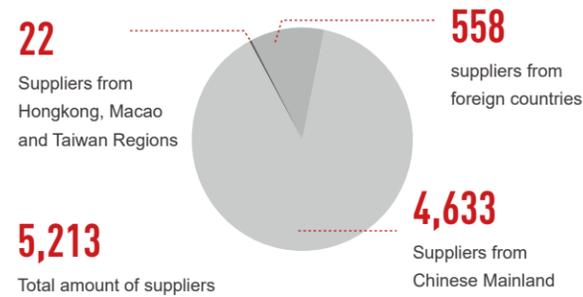
Meanwhile, LONGi continued to standardize suppliers' material selection, industrial standards, environmental protection and other regulations to encourage suppliers to practice climate action and sustainable development, with reference to the Administrative Measure on the Control of Pollution Caused by Electronic Information Products, the EU's mandatory standard Restriction of Hazardous Substances (referred to as "RoHS") and Responsible Business Alliance Code of Conduct (referred to as "RBA").

Strengthening Supplier Management

In accordance with a series of system documents formulated by the Company, such as *Supplier Code of Conduct* and *Strategic Supplier Management Measures*, we incorporated sustainable development requirements such as business ethics, environmental impacts, labor rights and human rights, as well as health & safety into supplier management, and conducted social responsibility related training for suppliers. We have organized 2 trainings for a total of 289 suppliers in 2021. In addition, we give preference to local suppliers under equal conditions.



LONGi's Supplier Distribution Statistics



Note: The data comes from the statistics of LONGi Group.

LONGi has continuously strengthened supplier's performance management, optimized the *Supplier's Performance Evaluation Management System*, clarified the scope, period, dimension and standards of evaluation, refined the methods and requirements to improve performance of suppliers at all levels, added a performance result appeal mechanism, and promoted the application of supplier performance results in strategic supplier selection, order share allocation, new material (process) development and introduction as well as other links. We have established a partnership with a third-party credit evaluation platform to incorporate the judgment results of the risk radar platform into the assessment of potential suppliers. Meanwhile, we have connected the risk radar platform and the internal Supplier Relationship Management System ("SRM") to receive early warning of any risk from suppliers and avoid any harm to the supply chain.

Cooperative Innovation in Supply Chains

LONGi has insisted on collaborative innovation in the supply chain and conducted regular exchange activities with major suppliers. The Company carries out two exchange activities with its strategic suppliers and one annual audit exchange activities with its major suppliers every year, and plans to carry out quarterly exchange activities in the future.

We have released the Proposal on Innovation of New Materials, Technologies, Processes to our cooperation partners. The Supply Chain Management Center will establish all-round service channels and communication mechanism for LONGi R&D team and LONGi suppliers to regularly exchange ideas on new technologies, materials, processes, or technical routes. In addition, we will present our innovation-related demand to suppliers regularly.

In 2021, We have established active cooperation with our suppliers in technical innovation of diamond wires, cost reduction of thermal field materials, improvement of cell efficiency and other fields, encouraging 9 suppliers to build their plants nearby and jointly completing 33 value engineering projects.



Enhancing Brand Influence

LONGi takes 2021 as the "The Year of Brand Quality Improvement". We improved the brand quality improvement system by insisting quality as the core of the brand, delivering value through marketing solutions, and creating critical value impact through procurement. No violations in market-ing occurred throughout the year.

Enhancing employees' awareness of customer-oriented

- Reinforcing customer perspective and the service awareness of "doing long-term business in a simple manner with customers" among all employees
- Optimizing the process and facilitating communication interface with customers
- Focusing on personnel, capability improvement and codes of conduct of employees in the customer interface

Improving overall quality management competency

- Consolidating a solid foundation for manufacturing quality and deepening total quality management
- Strengthening marketing and other links for brand value communication in the manufacturing segment
- Perfecting the quality in the manufacturing and delivery, and continuously widening the gap with competitive products
- Intensifying project construction, project management, operation and maintenance services in the power station segment



In "2021 China Brand Evaluation" released by Xinhua News Agency,

- LONGi Group reached a new high with its brand value of 40.216 billion yuan and intensity index of 864.
- The Company has increased its brand value for three times in a row.
- Won the PV Brand Lab (PVBL) Global Top PV Brand Award.

Meanwhile, multiple module products of LONGi have won important awards at home and abroad, demonstrating its brand impact and industrial recognition in major markets.



In the TÜV Rheinland "All Quality Matters" Solar Congress, LONGi's Hi-MO 4 and Hi-MO 5 high-efficiency modules have won awards for "PV Module Outdoor Energy Yield (Monofacial Group)" and "PV Module Energy Yield Simulation (Bifacial Monocrystalline Group)" respectively.



LONGi's Hi-MO5 modules won the 2021 Intersolar Award, a prestigious European award in the solar PV industry.



Named as a 'High Achiever' by RETC for the third consecutive year and achieved this ranking in all 9 test categories in 2021.



Named as a 'Top Performer' by PVEL for the fifth consecutive year and achieved this ranking in all 6 testing categories in 2021.



Nominated in the fourth China Quality Award, as the first company to win the award in the PV industry.



04

Pursuing Environmental-friendly Development

Environment Compliance	57
Energy Saving and Consumption Reduction	58
Water Resource Utilization Management	59
Waste Management	61

SDGs responded to in this chapter



Key Successes in 2021

3 The number of production bases conducted ISO 50001 Energy Management System Certification	8 The number of production bases deployed energy management system
267 The number of projects planned and implemented improvements	259 (million kWh) of electricity saved
58.75% water recycling rate realized	5,896,600 tons of water saved
5.38% decrease in electricity consumption group-wide	10.73% decrease in water consumption group-wide

All production bases passed ISO14001 System Certification in 2021

Material Sustainability Issues Involved in this Chapter

- Environmental Compliance
- Energy Management
- Water Resource Utilization Management
- Waste Discharge Management

Environment Compliance

LONGi attaches great importance to environmental protection and fulfillment of its environmental responsibility. In 2021, all production units of the Company strictly implemented relevant national environmental regulations and environmental protection requirements, and the treatment of waste water, waste gas and solid waste fulfilled the relevant standards, with no major environmental violations throughout the year. We have established a comprehensive environmental impact assessment for construction projects, implemented early warning monitoring for the whole process from project construction to production operation, and strengthened risk emergency management measures.

Meanwhile, we have established and improved the internal environmental management system based on ISO 14001 Environmental Management System. During the reporting period, all production bases of the Group passed certification of ISO 14001.

Strengthening Environmental Monitoring

We strictly comply with the *Environmental Protection Law of the People's Republic of China*, relevant laws and regulations of the countries and regions where our overseas production bases are located, and have formulated the Environmental Monitoring and Management Regulations in order to control the sewage outlets, pollutants, noise monitoring, emissions, and disposal standards in each plant area and ensure they meet the requirements of relevant standards. Our key pollutant discharging units have formulated environmental monitoring plans for main pollutants based on practical situations for daily monitoring, monthly inspections and annual evaluations. We continue to improve the production process to ensure high environmental standards are obtained during operations. In 2021, all bases achieved up-to-standard environmental monitoring results.

Environmental Self-monitoring Programs of LONGi Key Pollutant Discharge Units

- 
LONGi Silicon (Ningxia) Internal waste gas monitoring twice a day; outsourced testing 4 times a year; monthly internal supervision, inspection and compliance disposal of the quintuplicate of hazardous waste treatment.
- 
LONGi Solar (Zhejiang) Established one hazardous waste warehouse, which is in normal operation and can meet the requirements of hazardous waste treatment.
- 
LONGi Silicon (Chuxiong) Waste water real-time online monitoring, and data uploaded every hour; internal monitoring twice a day, and outsourced testing 12 times a year.

Project Environment Management

Insisting on the concept of "green design" in construction projects, we have strictly implemented the "Three Simultaneous" system of environmental protection, strictly observed the "Ecological Red Line" when selecting the sites, and fully considered the possible impact of project construction, future production and operation on ecological environment, to improve the effect of environmental control. Our key pollutant discharging units conduct environmental impact assessment of new, renovation and extension projects in accordance with national laws and regulations, and have obtained approval of environmental impact assessment in accordance with the law. "Three Simultaneous" Inspection and Acceptance has been in a timely manner organized.

Environmental Emergency Management

We have established sound environmental risk prevention and control measures and emergency management systems for various risk sources. For environmental risks involved in the production process and pollution production links, we have commissioned third parties to perform risk analysis and assessment of any environmental pollution emergency, formulated the *Emergency Response Plan for Sudden Environmental Pollution Accidents* and filed it to the local environmental protection agency.

Energy Saving and Consumption Reduction

Energy Saving Management

We have formulated the overall implementation plan of the Group's energy management system, launched the Energy Management Information System, established an incentive mechanism to promote energy conservation and consumption reduction.

Achievements of LONGi's Energy Management System in 2021

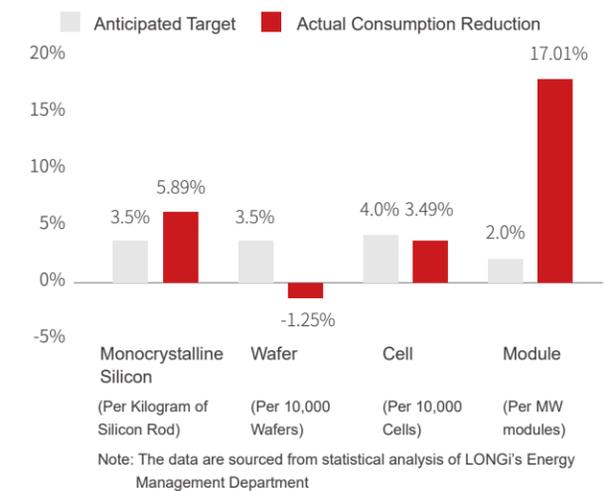
- 
Formulating Work Plans
 - Clarified the Group's goals for energy management
 - Established the Group's Energy Management Leading Group with the chairman as the group leader
 - Specified the working mechanism of energy management system and division of work of all departments
- 
Optimizing Management System
 - Designated 93 energy management personnel at all levels
 - Recruited 50 energy management experts
 - Formulated and issued 9 system documents
- 
Conducting Certification Training
 - Formulated the construction plan for the Group's energy management system
 - Conducted ISO50001 Energy Management System certification in 3 bases
 - Organized training sessions for internal auditors of energy management system
- 
Promoting Construction of Energy Management System
 - Formulated an overall implementation plan for the Group's Energy Management System (EMS)
 - Completed construction of Energy Management System in 6 bases
 - Initiated pilot construction of Energy Management System in 2 bases

Technical Rectifications for Energy Saving

With an increased investment in environmental protection, the Company has planned and implemented projects of reforming energy saving technology and continued to reduce the use of energy and water resources. In 2021, all units of the Group have planned and carried out a total of 267 improvement projects (saving water/electricity and other resources), which included continuous optimization of the process and production systems, use of high-efficiency pumps, improvement of circulating water systems, power of pumps, air-conditioning systems and compressed air systems, implementation of frequency conversion renovation of pumps, air compressors and cooling towers, as well as waste heat recovery, automatic lighting control, optimization of the number of lights, and strengthened lighting management. In 2021, the whole Group saved 259 million kWh of electricity and the overall per-unit power consumption of the whole Group was reduced by 5.38%.



2021 LONGi's Actual VS Target Energy Consumption Reduction of Each Production Unit



Promoting Energy Savings

LONGi regularly publizes energy saving in all production units to promote the concept of green development and raise the awareness of energy saving and environmental protection. During the 31st National Energy Conservation Publicity Week in 2021, a series of publicity activities themed "Energy Conservation and Carbon Reduction for Green Development" were held at the headquarters of the Group to encourage employees to strive for a zero-carbon life with their practical actions.

We constantly monitored risks relating to water utilization in our production and operation regions and formulated effective measures to reduce the risks, so as to ensure that water resources could support long-term development of the company. During the reporting period, our water sources mainly include municipal water, with a fresh water withdrawal of 35,087,619.24 tons.

35,087,619.24 tons
fresh water withdrawal

Utilization of Water Resources

We implemented lean management of water resources. For this purpose, the company formulated documents for water saving management in factories, established and improved a cost accounting system for water utilization management in workshops, and conducted statistics, analysis and improvement on water usage monthly. To generally reduce water consumption in links and constantly reduce the local water supply load, we carried out water-saving publicity, formulated special measures, investigated technological processes, and held water-saving competition and other themed activities. Furthermore, we also planned and implemented a series of water-saving optimization projects to reduce water consumption in our production and process systems: such as water purification enhancement, process water saving, water reusing, rainwater recycling. We also considered to link water-saving targets with the KPI assessment of EHS managers to encourage water-saving in production. In 2021, the water consumption of group-wide decreased by 10.37% and saved 5,896,600 tons of water. The proportion of water reuse was 58.75%.

10.37% the water consumption of group-wide has decreased by
5,896,600 tons saved the water of
58.75% proportion of Water Reuse (Percentage)

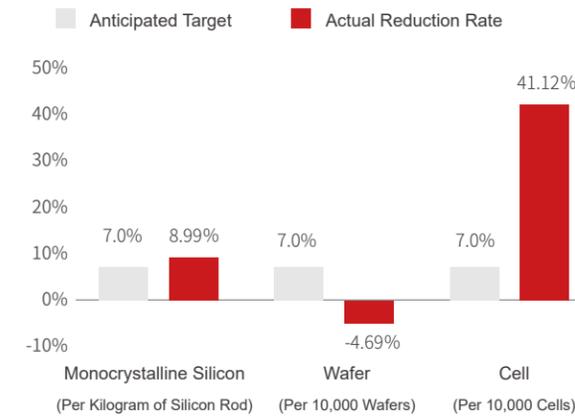
Water Resource Utilization Management

We strictly comply with *the Water Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China* and other laws and regulations, and have set up a work leading group (task force) on energy management steered by the chairman and president of the Group, which is responsible for the formulation of strategies and performance assessment of water resources management, and guides the production sites to continuously innovate equipment and processes to improve the reuse of water resources and reduce emissions.

Water Resource Evaluation and Consumption

Before water withdrawal, we will conduct analysis and assessment to analyse the current water resources development and utilization situation in the watersheds or regions where we had production or operation activities, including the rationality of water use, the potential impact of water resources development and utilization, and the water resources protection measures.

2021 LONGi's Actual VS Target Water Consumption Reduction of Each Production Unit



Note: The data are sourced from statistics of LONGi Group

Wastewater Discharge Treatment

We classified wastewater into industrial wastewater and domestic sewage, and took corresponding measures for treatments. Industrial wastewater is generated by solar cell manufacturing, circulation, cooling processes, preparation of pure water with concentrated water and ground cleaning. We made full use of wastewater that could be recycled, and treated wastewater that could not be recycled to meet corresponding standards before discharge. Domestic sewage was discharged via the municipal sewer networks for treatment. In 2021, we made improvements in reduction of water content in silicon sludge, reduction of COD in wastewater, recycling of lactic acid, reuse of recycled water, and wastewater treatment system to promote disposal and recycling of wastewater.

2019-2021 LONGi's Total Water Resources Consumption

Indicator	2021	2020	2019
Total Water Consumption(Tons)	35,087,619	32,750,659	17,506,952
Proportion of Water Reused (%)	58.75	33.89	43.20

Note: The data are sourced from statistics of LONGi Group

2019-2021 LONGi's Total Emission of Wastewater



Pollutant Type	2021	2020	2019
Wastewater Discharge (Tons)	21,430,620	20,205,828	9,567,979
Chemical Oxygen Demand (COD) (Tons)	965,436	1,404,836	/
Ammonia Nitrogen (Tons)	53,072	57,208	/
Suspended Solids (SS) (Tons)	408,986	330,036	/

Note: 1. The data are sourced from statistics of LONGi Group; 2. "/" indicates no statistical summarization

Waste Management

LONGi is dedicated to becoming an environment-friendly green company. In accordance with requirements of relevant laws and regulations, we properly store, dispose and recycle wastes to ensure that they meet the requirements for emissions, so as to lessen impact on the environment while reducing operation risks.

Waste Gas Emission Treatment

We control the whole process of generation, treatment and emission of exhaust gases. The acidic, alkaline and organic exhaust gases from the processes of linting, spreading, glass cleaning, coating, drying and sintering are treated by internal gas purification devices to ensure that the exhaust gas emission concentration meets *the national and local emission requirements such as the Emission Standard of Pollutants for Battery Industry (GB30484-2013)*, etc. In 2021, the annual external testing of exhaust gases from all LONGi production bases reached the qualified level.

2019-2021 LONGi's Total Emission of Waste Gas



Pollutant Type	2021	2020	2019
Waste Gas (Tons)	34,990,589,648	7,617,819,718	/
Particulate Matter (Tons)	251.90	77.66	22.34
Fluorides (Tons)	54.88	5.28	2.92
Chlorine (Tons)	19.58	3.90	0.17
Ammonia (Tons)	66.70	13.48	2.81

Note: 1. The data are sourced from statistics of LONGi Group; 2. "/" indicates no statistical summarization

Solid Waste Management

In terms of waste management, we have formulated the *Waste Material Management System*, *Chemical Management System*, and *Hazardous Waste Management System*. We have also established hazardous waste warehouses to store the waste separately according to their categories and have entrusted a qualified third-party company for compliant disposal. For general solid waste that could be recycled, we have created the *Waste Material Management System* and

Silicon Material Recycle Management System, and manage and count waste materials such as silicon mud, waste diamond wire, graphite, waste paper, cardboard, and waste plastics by their categories. We also study methods to maximize the value of materials, so as to increase the times of recycling waste materials. For example, LONGi Silicon (Chuxiong) has constructed facilities for lactic acid recycling and reduced the discharge of waste.

2019-2021 LONGi's Total Emission of Solid Waste



Pollutant Type	2021	2020	2019
Hazardous Waste (Tons)	32,586	29,001.76	1,067.17
Recyclable General Waste (Tons)	65,749	/	/
Non-recyclable General Waste and Domestic Garbage (Tons)	130,506	/	/
Recycling Rate (%)	28.7	/	/

Note: 1. The data are sourced from statistics of LONGi Group; 2. "/" indicates no statistical summarization



05

Building a Shared Society

Protecting Rights and Interests of Employees	65
Promoting Equality and Diversity	69
Promoting Supply Chain Labor Security	70
Supporting Social Undertakings	70

SDGs responded to in this chapter



Key Successes in 2021

98.97% Employee satisfaction score	39.66 hours per-capita training on employees' occupational health and safety	CNY 39.49 million benefits distributed
CNY 101 million investment in occupational health and safety	7.59% percentage of foreign employees	25% proportion of female employees in executive management
	CNY 26 million donations for COVID-19 epidemic prevention and control	

Awarded two honorable titles, i.e. **China's Best Employer 2021** and **China's Most Sustainable Employer 2021 – Forbes**

Awarded the **Humanitarian Badge of Red Cross of China** by the Red Cross Society of China

Material Sustainability Issues Involved in this Chapter

- Equality and Diversity
- Labor's Human Rights
- Community Development
- Talent Development
- Occupational Health and Safety
- Public Welfare

Protecting Rights and Interests of Employees

Rights and Interests of Employees

LONGi pursues an open, fair and equal employment policy and complies with international labor laws and national and local labor standards in regions where the company operates. During production or provision of services, we resolutely prohibit use of child labor or forced labor, respect employees' freedom of association and right to collective negotiation, and implement equal pay for equal work without gender discrimination.

We provide equal welfare for all employees, including those in Kuching, Malaysia, Vietnam Production bases and overseas offices. During the reporting period, social insurance procured by the company for employees in the Chinese Mainland achieved a coverage rate of 96.64%; in overseas regions, social insurance was also procured in accordance with local policies; internal articles of association on anti-child labor and forced labor were 100% fulfilled, and throughout the year no labor discrimination, employment of child labor or forced labor ever occurred.

We attach great importance to participation of employees. The Group organizes a congress of employees each year and directs each subordinate organization to hold an unit-level congress. Through the two-level congresses, employees' right to know, right to participate and right to supervise can be exercised. In 2021, LONGi's congress of employees, with presence of 547 employee

representatives, deliberated and voted on *the Regulation of the Group on Employees' Performance Management (2004)*. At the congress, 24 proposals were raised and 22 proposals were closed; representing a 91.6% closing rate for the year. In our day-to-day work, we also act to collect employees' opinions through member representatives, employee symposiums, one-to-one communication or otherwise, and when appropriately give timely response.

24 proposals raised
22 proposals closed
91.6% of proposals closed during the year

Following the "people-oriented" principle, we have formulated and improved *the Administrative Regulation on Care to Employees, the Administrative Regulation on Mediation of Labor Disputes, the Welfare Manual of the Group* and other documents, according to which we provide all employees of domestic and overseas operating offices with benefits including social insurance, commercial insurance, holidays, meals, traveling benefit, festival allowance, living allowances and family care. New employees are entitled to the benefit entry examination. Employees who have served in the company for over half a year are further entitled to the benefit of health checkup. The company also gives financial support to employees when they or their spouses or lineal relatives by blood suffer any severe disease, accidental injury or natural disaster, that results in difficulties or inability to pay for their children's education.

2019-2021 LONGi's Performance of Securing Employees' Benefits

	2021	2020	2019
Social insurance coverage rate for employees in the Chinese Mainland (%)	96.64	97.59	/
Coverage rate of collective negotiation agreement (%)	100	100	100

Note: 1. The data are sourced from statistics of LONGi Group; 2. "/" indicates no statistical summarization

We are active in constructing activity facilities and organizing staff club activities for balancing work and life of our staff members, as well as for improving their sense of identity and satisfaction.

In 2021,

CNY **39.49** million benefits paid to employees
98.97% employee satisfaction score reach to

LONGi Group-level Job Council



"LONGi Cup" Football Game



Health and safety

The company has a group-level environment, health and safety (EHS) management committee to centrally steer EHS work in the entire Group; Each Business Unit or production base has their secondary EHS committees to bear corresponding work. Additionally, we have formulated a Manual for Environment, Safety and Occupational Health Management, a Management System for Quality, Environmental, Occupational Health and Safety Accidents and a Work Safety System, while constantly improving the QEHS management system manual and the EHS control procedure. By 2021, all operating bases of the Group had passed ISO45001 certification. By the end of the year, the Group had had 8 units certified for grade 2 work safety standardization certification. We plan to move forward and realize safety standardization of all units.

The company sets occupational health and safety management goals on an annual basis, and implements the target-oriented responsibility system. Organizations at all levels of the Group have established hazard source and environmental factor identification systems to rate risks and identify hazards, so that effective measures can be taken to eliminate the hazards and reduce the risks.

2021 LONGi's Performance of Health and Safety

	2021
Total number of safety hazards identified (occurrence)	24,165
Rectification rate of safety hazard within the year (%)	100
Occurrences of severe accident	0
Occurrences of major accident	0
Occurrences of moderate accident	0
Number of individuals to be recorded with work-related injuries (person)	88
Days of absence due to work-related injuries (day)	2,110

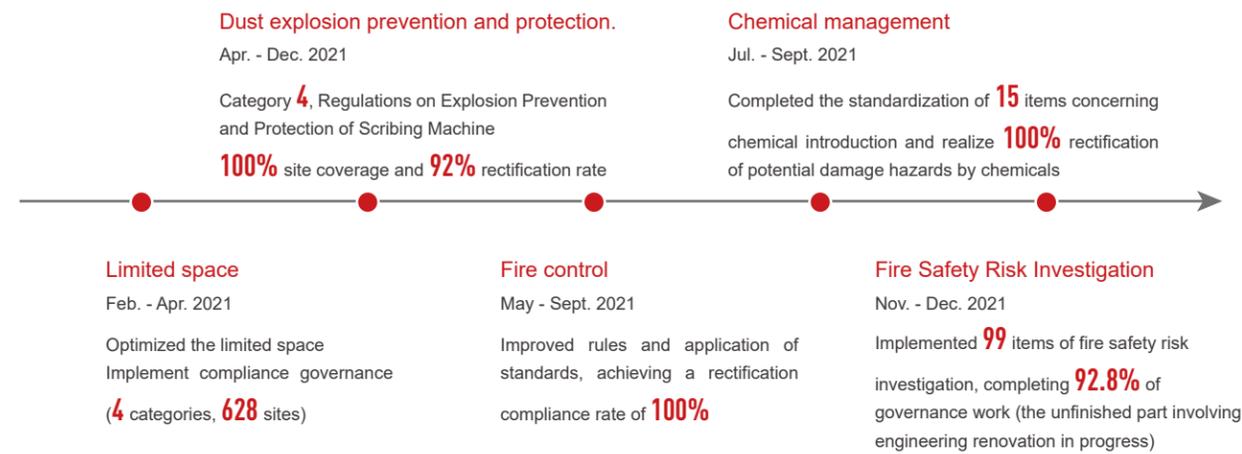
Notes: 1. Data in this table are sourced from statistics of LONGi Group; 2. Classification is done in accordance with the Regulation on Reporting and Investigating Work Safety Accidents (State Council Decree No. 493).

We have established a three-level safety training mechanism in accordance with regulatory requirements, while offering varied education and training courses. Company-wide production safety month activities were carried out, and organizations at all levels held various activities, such as publicity and education, hazard identification, safety knowledge competition, emergency response drills, etc., to enhance the safety culture of the company.

874 times of emergency drills carried out throughout the year
1,981,902 hours of occupational health and safety training for employees
 CNY **101.1** million in occupational health and safety production

We carry out targeted health prevention and control measure to protect the occupational health of our employees. The company regularly conducts tests on occupational disease hazards in production plants, and the test results are stored in the company's occupational health files and regularly announced to operators. In the 2021 occupational health examination organized by the company, a total of 12,127 employees in key positions were examined. In addition, when an employee is diagnosed or identified to have an occupational disease in accordance with the *Regulation on Prevention and Control of Occupational Diseases*, the Company promptly reports and cooperates with investigations as required by national or local laws and regulations to protect the rights and interests of employees from harm.

▼ Timeline for 2021 Special Governance of Medium and High Risks by Module Manufacturing Center



Talent Development

LONGi follows the guiding thought of "empowerment inspires vitality and enthusiasm" in management to develop teams of highly competent employees as continuous human resources streams to satisfy sustainable development of the company.

We have established two career development paths for employees, i.e. management-oriented and non-management-oriented paths. The management-oriented path has differentiated promotion conditions and rules for longitudinal development of employees and can satisfy the long-term development needs of different employees; the non-management-

oriented path relates to internal employment competition, transfer and secondment for transverse development of employees and can help certain employees switch to management positions for further career development. In 2021, LONGi introduced a qualification management system for clarity in the paths for career development of employees. By establishing and defining job-related qualifications, the system has provided clear criteria for external recruitment, internal talent selection and evaluation. All of our employees are subject to regular performance and vocational development assessment on annual and quarterly basis.

We create a comprehensive and systematic staff training system to help employees continuously improve their abilities and professional value. For development and reserve of talents of different types, the company has established three training program systems comprising six programs (including strategic organization ability development program, general management personnel development program (GMDP), primary and medium level management program (LMP), team leader development program, fresh graduates special training program and new employee/cadre induction training program) for development of management competence, professional competence and new employee/leader competence. Besides, an independent mobile learning platform has been established, regulations and procedures have been optimized and improved, lecturer and course resources have been accumulated and a knowledge management system has been built. All these serve as important guarantees for effective and standard implementation of training.

▼ Three Major Training Programs

- Empowerment of professional competence**
 - Strategic Organization Ability Development Program
 - Graduates Training Program
- Empowerment of management competence**
 - General Management Development Program (GMDP)
 - Low and Middle level Management Program (LMP)
 - Team Leader Training program
- Empowerment of New Employee/cadre**
 - New Employee/cadre Orientation Program

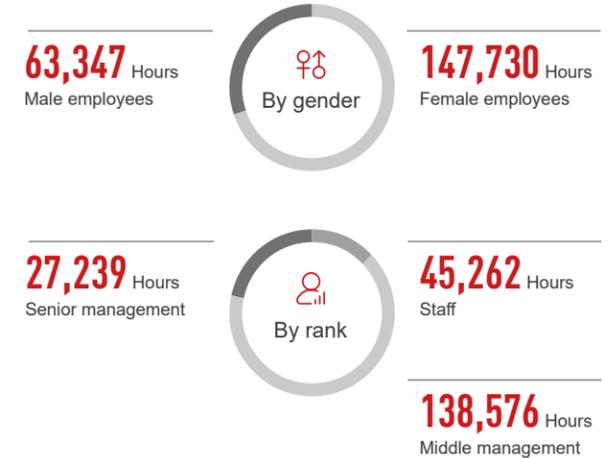
▼ LONGi Primary and Middle Level Management Program (LMP)

LONGi LMP creates a learning and development team by simulating the head teacher-student matrix management in combination with the independent trainee group management mode. The program provides multiple learning modes, including simulating, questioning, drilling, practicing and debating, for trainees to learn with pleasure in competition and cooperation. By late December 2021, the company had held five company-wide sessions of the LMP, which 274 trainees attended and contributed a total of 574 management cases. Through the program, the company has made achievements in various aspects of talent development and contribution, and accumulation of case-based management experience. Besides, the company has also gained experience in program operation, course system standardization and lecturer incubation.

▼ Talent development performance of LONGi in 2021

243,504 annual trainees
23.65 Hours annual training

Average training hours per employee



Note: The data are sourced from statistics of LONGi Group

We are well aware that talents are a driving force for long-term development of an enterprise and the core competitiveness of the enterprise to win in the future. For this reason, we have been carrying out various employer experience programs based on consideration of employees' career cycles and improving systematic construction of the career platform, so as to provide an employer platform of the most growth value for our employees. Relying on the remarkable brand influence of the employer, we won China's Best Employer 2021 and China's Most Sustainable Employer 2021 - Forbes. At the 16th China Employer Brand Conference and 2021 Year-end Grand Ceremony, LONGi Group was also titled as "China's Best Employer of 2021".

Promoting Equality and Diversity

In LONGi, we are committed to creating a diverse and equal working environment. At all of our domestic and overseas operations, we support local employment, create more local employment opportunities, offer competitive compensation packages to employees with reference to local salary levels, and respect employees' freedom of belief without any discrimination based on ethnicity, race, nationality, religious beliefs, gender, age, disability, marital status, etc. As of the end of December 2021, LONGi has a total of 49,967 formal employees, with foreign employees accounting for 7.59%, covering countries such as Vietnam, Egypt, and the regions of The Americas, Europe, Asia-Pacific and Middle-East.

We respect and care for female employees, and create more job opportunities for them. At LONGi, we employed one female PV engineer for every 10, and our female officers proportion is over 25%. The company has a female employee committee. Units of the company act actively to organize activities for female employees on each International Women's Day to show care to female employees, and grant childcare leave to safeguard legitimate rights and interests of the employees. During the reporting period, a total of 753 female employees took childcare leave, and the post-leave return rate reached 63%. We have also constructed the 10m2 of Love campaign certified by the UN Children's Fund, and designated special seats for pregnant female employees in our dining rooms, providing more convenience for female employees during their special periods.

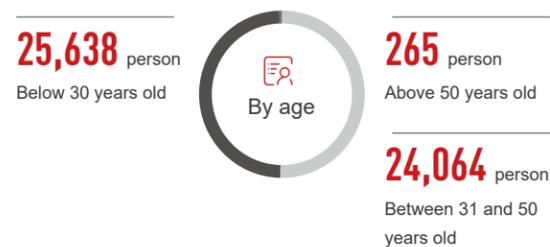
over **25%**
proportion of female officers

5.58%
Proportion of senior officers recruited from local communities



During the 15 years in LONGi, Lin Suifang has always been conscientious. She tested 1.782 billion monocrystalline silicon wafers in total and hold the last pass before the products leave the factory. She used 15 years to demonstrate the great power of every single details.

Employment Data of LONGi in 2021



Note: The data are sourced from statistics of LONGi Group

Promoting Supply Chain Labor Security

We are active in promoting protection of workers' human rights in the supply chain by requiring suppliers to comply with international labor standard and LONGi's Code of Conduct for Suppliers, respect basic human rights, and protect the health and safety of their internal/external employees.

In 2021, **100%** regulations against child labor and forced labor fully covered contractors and suppliers

Additionally, we also require suppliers to strictly supervise labor issues that may be present in their supply chains, to protect unbiased rights of workers by specifying management regulations and complaint procedures, and to mitigate or when necessary remedy any negative impact.

In the future, we plan to strengthen our focus on high-risk suppliers, consider commissioning third-party labor human rights due diligence, and share the findings with the industry. We will also conduct training for suppliers to enhance their understanding of international labor standards and to help them identify and manage illegal labor risks in their own operations and supply chains.

Requirement for Suppliers to Protect Worker's Rights, Interest, Health and Safety

- Labor interests and human rights**
- Zero-child labor and forced labor
 - Equal employment against discrimination
 - Support freedom of association

- Health and safety**
- Prevent and control occurrence of accidents and occupational diseases
 - Provide education and training on health and safety
 - Observe local labor protection laws

Supporting Social Undertakings

While developing as a company, LONGi has never forgotten its social responsibility and is enthusiastic about social welfare, insisting on helping reduce poverty with technology, supporting quality education, promoting climate action, contributing to the development of communities where the company produces and operates, and creating greater social value.

LONGi One Percent Foundation

In 2010, the founder of LONGi, along with benevolent figures, initiated a non-public foundation under the Red Cross Society of China. With the concept of "one percent of the donation, one hundred percent of change," the foundation has made many donations, including supporting the reconstruction of Yushu City of Qinghai after the earthquake, curing children with congenital heart disease in Tibet, providing financial aids to students from poverty-stricken families, and fighting against COVID-19.



Rural Revitalization

LONGi has taken the initiative to apply better products and services to poverty-alleviating PV projects across the country, and has embarked on a road of LONGi high-efficiency PV poverty alleviation with the standard of a "leader".

According to incomplete statistics, as of the end of December 2021

Over **1GW** in total of high-efficiency PV products supplied by LONGi in PV poverty alleviation projects

Nearly **350,000** households of benefit registered card holders across the country

After successful elimination of poverty, LONGi has positively geared its PV operations to rural revitalization, and take an active part in "cross-the-country advancement" to promote green and sustainable development of rural areas throughout the country.

▼ Case

"Sunshine Bank" in Se-rich Industrial Park, Baijia Village, Qinghai

The Se-rich Industrial Park is a key "flagship economic industry" developed in Baijia Village, Qinghai. With coordination of the Village Committee, the Se-rich Industrial Park in Baijia Village has installed 304 pieces of LONGi HI-MO 4 (60-cell) modules, with the total capacity of 109.44KW. The annual cumulative generating capacity of the products is expected to exceed 175,000 kWh, and the annual direct economic return is expected to reach up to RMB62,000. In the span of 20 years, the total economic returns will exceed RMB 1.24 million.

Supporting Education

Following the idea of education promotes technological progress and makes human life better, we have continued our support to education since the founding of the company. In June 2021, LONGi Clean Energy donated RMB 5 million to Shaanxi Huanglong Middle School for reconstruction and expansion of the school, so as to facilitate high-quality development of education and teaching in the area after shaking off poverty. Under the guidance of the All-China Federation of Industry and Commerce, we joined hands with All-China New Energy Chamber of Commerce to organize the delivery of 32.4kW PV power station and public welfare activities of PV science for Kecai Primary School in Xiahe County, Gannan Prefecture to consolidate the development results of poverty alleviation in the Three Regions and three Autonomous Prefectures(i.e. Tibet, Tibetan area in Sichuan Province, four areas in Nanjiang, Sichuan Liangshan Prefecture, Yunnan Nujiang Prefecture and Gansu Linxia Prefecture). In Yunnan Province, which is a major production base for LONGi, LONGi Silicon (Baoshan) has launched care activities for abandoned children to solve the problem of employment for parents of abandoned children. LONGi Silicon (Lijiang) and LONGi Silicon (Chuxiong) have also made donations for education in response to the call of the local governments. LONGi Silicon (Chuzhou) has taken part in the "enterprises prosper villages" action for rural revitalization and poverty alleviation by developing industries. LONGi Silicon (Ningxia) and LONGi Silicon (Tengchong) have continued their support to local communities by erecting solar street lamps to improve the community infrastructure. Furthermore, LONGi has also joined hands with its partners in Malawi, Vietnam and other countries to support local schools in the construction of PV projects.

▼ Case

LONGi, together with its partner PowerTech donated 20.2KWp highly efficient and reliable PV modules to Vo Thi Sau Secondary School in Con Dao, Ba Ria Vung Tau Province, Vietnam for the building of distributed PV power station construction on roofs of the school.



Community Development

We are actively cooperating with developing countries and regional markets, focusing on providing lower per-kWh cost solutions for PV markets in different regions, contributing to the rapid development of clean energy in the regions, and making PV power available to a wider population.

By December 2021,

more than **30** projects we have provided support for PV module and PV power station projects in poverty-stricken communities around the globe.

We plan to work with more non-government organizations and professional organizations in bringing affordable clean energy to more people in poverty-stricken regions across the world and in furthering development of clean energy to change the world.

▼ Case

LONGi provided products for a 7,200Wp distributed PV power generation project in Chamalire School, Malawi. The products have been installed on roofs of the teaching buildings, dormitories, administration building, teachers' houses and other buildings. The project provides electric power and lighting for local villages and schools, and serves as a power guarantee for living and traveling for the villagers and students at night.



From the COVID-19 outbreak in early 2020 to the end of 2021

LONGi donated goods with total value of **CNY 26** million

In the context of global warming, extreme weather disasters frequently occur in different regions. In July 2021, extremely heavy rainfall and flooding hit Zhengzhou and other places in He'nan Province.

LONGi donated **CNY 15** million to support disaster relief and post-disaster recovery and reconstruction in the severely affected areas in Henan



06

Establishing a Sustainable Enterprise

Steady Development	75
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Compliance Operation	77
Business Ethics	79
Cooperation and Exchange	80

SDGs responded to in this chapter



Key Successes in 2021

CNY **80.932** billion
operating revenue

CNY **97.735** billion
total assets

CNY **9.086** billion
net profit attributable to the parent company

51.31%
liability-asset ratio

CNY **967** million
dividends paid to shareholders

91
integrity training and publicity activities

4
higher education institutes signed cooperation agreement

Selected as “**IR Work Model of Listed Companies**” according to 2020 Annual Report on Investor Relations of Listed Companies

Won awards for the **Best Board of Directors for Investor Relations of China’s Listed Companies** and the **Best Investor Relations of China’s Listed Companies** granted by the Securities Times

Material Sustainability Issues Involved in this Chapter

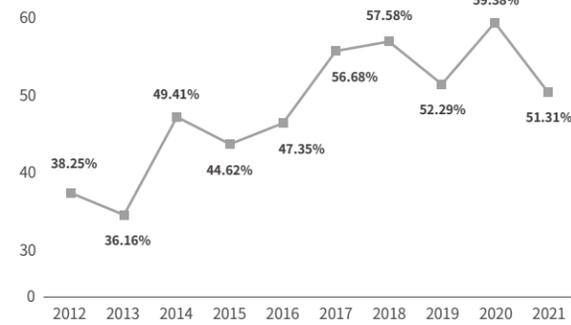
- Sustainable Profitability
- Business Compliance
- Commercial Ethics
- Cooperation and Exchange

Steady Development

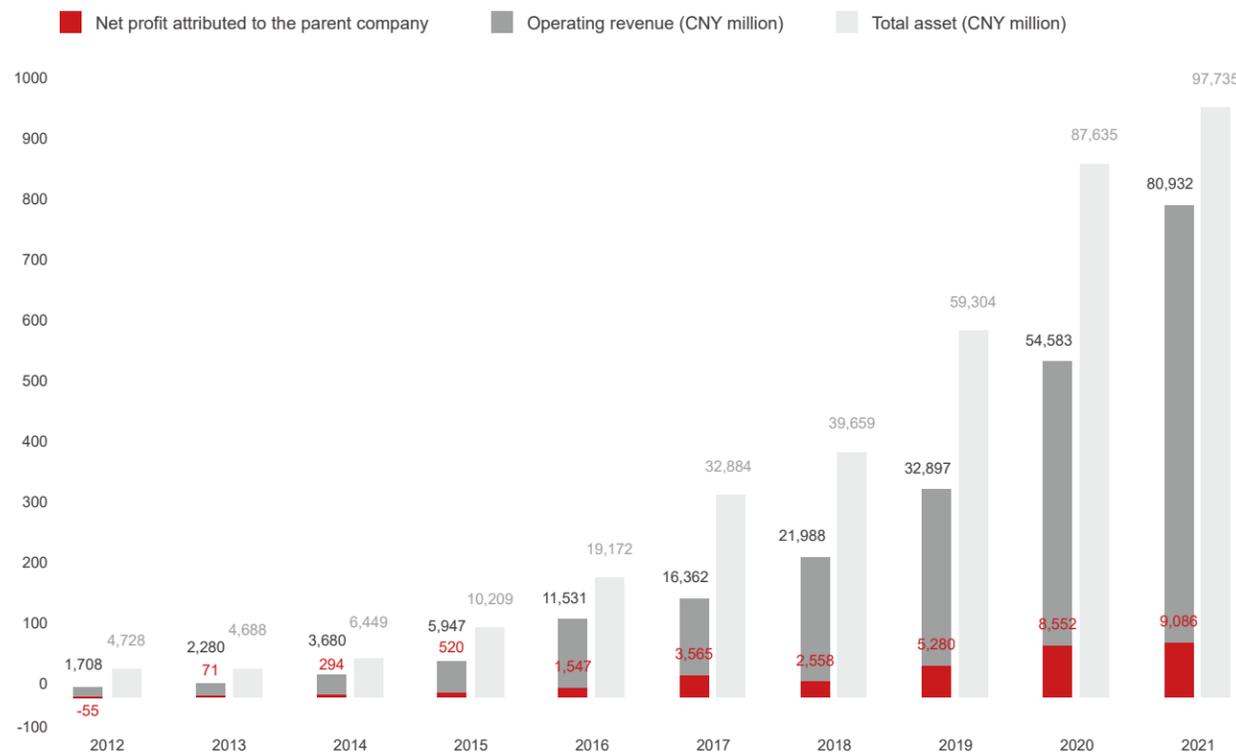
Steady and sustainable development is the foundation for the enterprise to make contributions to sustainable development of human beings. Focusing on the long-term interests of the enterprise, LONGi continued to maintain an industry-leading level of financial health in 2021 by adhering to the concept of "science and technology-led, stable and reliable development".

In 2021, LONGi's operating income reached 80.932 billion yuan, total assets reached 97.735 billion yuan, and net profit reached 9.086 billion yuan, fully demonstrating our profitability; the liability to asset ratio remained at 51.31%, continuously remaining below 60%; the cumulative cash dividends exceeded 967 million yuan, providing substantial returns for investors at large.

Liability to Asset Ratio of LONGi in 2012-2021



Statistical Financial Data of LONGi in 2012-2021



Note: The data is sourced from statistics of LONGi Group's annual reports

Effective Governance

We value independence and diversity of the Board of Directors.

Members of LONGi's Board of Directors **9**

Executive Directors **5**

Independent Non-Executive Directors **3**

Non-Executive Directors **1**

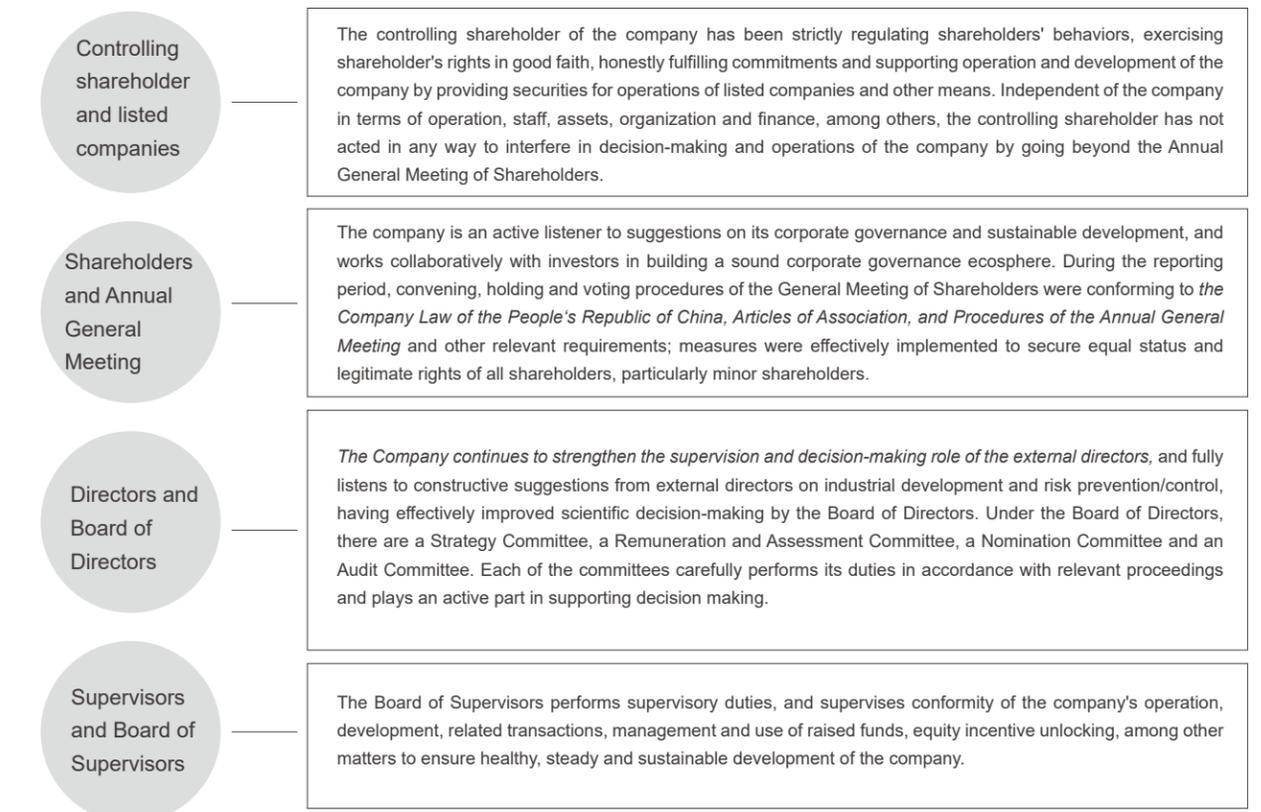
Female Directors **3** Proportion of Female Directors **1/3**

Governance Mechanism

LONGi continuously optimizes its corporate governance system and enhances its corporate governance level. By establishing a scientific and efficient decision-making mechanism, an effective monitoring mechanism with checks and balances, and a long-term stable incentive mechanism, we promote the healthy, stable and sustainable development of the company and continuously strive to create better corporate governance practices.

The number of members and composition of the Board of Directors conforms to *the Company Law of the People's Republic of China, the Securities Law of the People's Republic of China, the Code of Corporate Governance of Listed Companies, the Rules Governing the Listing of Stocks on the Shanghai Stock Exchange*, and other laws, regulations and regulatory requirements.

LONGi's Governance Structure



Investor Relations

Since the listing of the Company, we have adhered to the principles of truthful, accurate, complete, timely and effective information disclosure, proactively communicated the Company's business philosophy, operating results and future strategic direction to investors through multiple channels, including the company's investor communication platform, the annual general meeting of shareholders and performance presentation conference, actively rewarded investors through stable and sustainable dividends and earnings growth, enhanced investor recognition of the Company's value, and created an ecology of sincere and trustworthy investor communication.

In 2021, the company was included as an "IR Work Model of Listed Companies" in *the Annual Report on Investor Relations of Listed Companies (2020)* prepared by Quanjing Net. In September 2021, the company attended, as a representative "best practice model" of 2020 Annual Performance Presentation Conference, the "Work Sum-Up Exchange of 2020 Annual Performance Presentation Conference of Chinese Listed Companies".



Compliance Operation

Compliance is a prerequisite for long-term sustainable development of an enterprise, and the cornerstone for the high quality development of the company. By strengthening compliance management, improving compliance management and actively fulfilling social responsibilities, LONGi provides high-quality products and services to global customers in a sustainable manner, and also provides strong support for LONGi's stable development.

In response to increasingly complex external legal and regulatory environments for global operations of the company, LONGi established a Compliance Department under the Legal Affairs Center in 2021 to implement and intensify overall compliance risk control. The Compliance Department is responsible for establishing a legal compliance risk prevention and control system to support global operations of the company, effectively identifying and precisely controlling major compliance risks, and performing work under the legal compliance management system, so as to safeguard the healthy, steady and sustainable development of LONGi. Establishment of the Compliance Department symbolizes that compliance risk control of the company has come to a new stage at which the of work is switched from local to global to realize full coverage and further advancement.

Improvement of Compliance Management System

LONGi complies with all applicable laws and regulations, and abides by good faith, business ethics and LONGi's Code of Conduct. We have an effective complaint and reporting mechanism in place to prevent corruption, bribery and insider trading and to avoid conflict between the business interests and personal interests. We respect basic human rights of all employees. In addition, we also take responsibility to protect employee health, safety and environment, as well as confidential information and intellectual properties, and act to ensure conformity of finance, data security, international trade and competition to laws and regulations. LONGi has established and improved "three lines of defense" for compliance risk control of the company at the organization level. Specifically, business divisions take care of day-to-day compliance control in respective daily operations; the Compliance Department leads routine work in compliance management; the Audit and Supervision Center is responsible for audit and supervision. Based on compliance with external laws, regulations and specifications, LONGi Group has successively improved its internal compliance management system. In 2021, we issued or improved 16 compliance specifications and internal control manuals, including Compliance Risk Control Management Regulation, Measures for Anti-monopoly Compliance Management, Measures for Compliance Risk Management of Overseas Operations, Internal Control Manual for Supply Chain Management and Internal Control Manual for Global Marketing Center, among others.

Effective evaluation of internal control, timely rectification and optimization, promotion of risk control ability and operation management capacity have reasonably guaranteed the company's efficient and effective operations, reliable financial reporting, conformity to relevant laws and regulations, facilitated perfection of the company's modern enterprise system and secured fulfillment of the company's operational and strategy targets.

In accordance with applicable laws and regulations, we have combined identification of business scenarios with risk evaluation with focus on key fields, key procedures and key employees, established comprehensive compliance management procedures to realize compliance management of each operation procedure, and continued our effort in optimization of the compliance management system.



Promotion of Compliance Culture

We value promotion of compliance culture and implement compliance requirements. At the management level, we have improved the compliance system through "face-to-face" communication with the management, intensified compliance system construction and risk control, and ensured understanding and awareness of the compliance concept.

At the employee level, we continue to raise the compliance awareness of all employees, increase compliance publicity for employees, and organize compliance training on mono-poly, bribery and contracting.

In 2021, LONGi completed the first session of "compliance officer" training and qualification assessment, and carried out compliance training in forms of on-site training, online learning and examination to make the employees fully understand compliance obligations of the company and of each individual in the company, so as to realize integration of compliance awareness into behavioral habits of each employee.

Business Ethics

LONGi strictly abides by the business ethics of honesty, integrity and self discipline, and adheres to the LONGi Code of Conduct. The company complies with applicable laws related to its business, establishes effective grievance procedures to ensure fairness and impartiality, adheres to the principles of honesty and integrity, prohibits corruption and bribery, and respects the basic human rights of its employees.

Anti-corruption

LONGi has established an Audit and Supervision Center as an anti-bribery functional department responsible for establishing, evaluating and improving the anti-bribery management system. In 2018, as the first certified enterprise in the global PV industry, LONGi obtained the ISO37001 Anti-bribery management system certificate, and carried out ISO 37001 Anti-bribery management system audit every year to regularly evaluate the bribery risk and formulate corresponding control measures. We conduct domestic and overseas audits every year to review the compliance of business development. At the same time, we also formulated the *Anti-Commercial Bribery Management Measures*, *Management Position-Specific Fraud Risk Management Rules* and other institutional documents. We required our employees strictly follow provisions on honest practice in the *Employee Handbook* and the *Integrity Practice Guidelines for Managerial Staff*, and to sign and practice the *Commitment to Integrity and Self-Discipline*. During the reporting period, there was no litigation case related to commercial bribery, and the anti-bribery work continued to be carried out effectively to achieve the purpose of prior risk prevention and control.

The Audit and Supervision Center is the third line of defense in risk management of the company. It functions to inspect internal violations and to create an atmosphere of honesty and legal compliance inside and outside of the company. In 2021, the company organized 91 sessions of honest practice-related training and conducted honesty and compliance

atmosphere index investigation, which covered all the employees and created "Sunshine LONGi" cultural orientation. In 2017, the company joined China Enterprise Anti-fraud Alliance and participated in publicity activities of the International Anti-corruption Day. In 2018, the company joined the Trust and Integrity Enterprise Alliance to further improve its anti-bribery management; in 2021, the company applied for participation in drafting the new energy group standard of All-China Federation of Industry and Commerce.

We require suppliers to comply with relevant domestic and foreign laws and regulations, as well as the honestly cooperating in the requirements of LONGi, and not to tolerate nor practice any form of corruption or bribery; we also have anti-fraud measures applicable to suppliers, including association check, inclusion of honesty provision in contracts and imposition of punishment on suppliers violating such provisions. We also have *Detailed Rules for Supplier Integrity Management*. According to the company's anti-bribery work plan, we paid follow-up visits to 145 auxiliary material suppliers to further publicize the anti-bribery requirement for suppliers.

Statistics on Communication and Training by LONGi on Anti-corruption Policies and Procedures in 2021

Total training sessions	1	91	145
	Governance layer	Employees	Business partners
Coverage rate (%)	100%	100%	
	Governance layer	Employees	

Complaint Reporting

The company has multiple channels for complaint reporting, including WeChat mini program, WeChat Public Account, complaint hotline and email, encourages employees and partners to report any bribery relating to the company, and commits to keeping informers and whistleblowers in confidence with measures taken to protect the informers. During integrity training, the company continues to promote the reporting channels to increase their influence. Furthermore, it acts in a timely manner to handle reported complaints and to pursue liability for violations in accordance with the *Complaint and Reporting Management System*, *Accountability Management System*, and Awards and Punishments Management Measures.

Cooperation and Exchange

LONGi Founded the Future Technology Research Institute Jointly with Lanzhou University



LONGi Jointly Constructed a United Hydrogen Energy Laboratory with Tongji University



LONGi respects the role of cooperation and exchange in long-term development, playing an active part in leading formulation of industrial standards, and expanding channels for industrial exchange. We actively cooperate with domestic and foreign enterprises in exploiting respective advantages in capital, technology, products, services and government coordination, and make constant effort to explore more efficient, practical and innovative cooperation modes, so as to constantly increase mutual competitiveness in global development of the industry. We attach great importance to cooperation with domestic and foreign higher education institutes, full exertion of mutual advantages and further integrated advancement of industry-university-research cooperation. In 2021, the company successively signed strategic cooperation agreements with Xi'an Jiaotong University, Tongji University, Northwestern Polytechnical University and Lanzhou University, and established cooperation mechanisms centering on talent development, scientific research and critical core technology of the industry, among other aspects. To further integrate and improve external cooperation, the company also set up the Central Research Institute Cooperation Management Department to work with higher education institutes and scientific research institutions in implementing "zero carbon-oriented" energy research projects, promoting conversion of green energy research results and pushing forward sustainable development of green energy.

■ Events in 2021

March	<ul style="list-style-type: none"> Founded a wholly-owned subsidiary - Xi'an LONGi Hydrogen Energy Technology Co., Ltd. for engagement in the green hydrogen energy industry
April	<ul style="list-style-type: none"> LONGi announced that the cell conversion efficiency of n-type TOPCon created a new world record of 25.09% according to ISFH testing. It was also the first time that commercial silicon wafer size-based TOPCon had cell conversion efficiency over 25% LONGi signed a strategic cooperation agreement with Sinopec in Beijing for in-depth cooperation in such fields as distributed PV power generation, PV + green hydrogen and chemical materials
May	<ul style="list-style-type: none"> Released a white paper on crack-free intelligent welding technique LONGi Green and Intelligent Energy Exhibition Hall formally opened, serving as an exchange center for the PV industry and a base open to the social public and higher education institutions for PV science popularization. According to the 2021 China's Brand Value Evaluation Results released, the brand value of LONGi rose to RMB 40.216 billion, ranking in seventh place among national energy and chemical manufacturing enterprise brands.
June	<ul style="list-style-type: none"> Released the first TOPCon double-sided module - Hi-MO N in 2021SNEC Created three world records relating to the efficiency of n-type TOPCon cells, p-type TOPCon cells and HJT cells according to ISFH testing
July	<ul style="list-style-type: none"> LONGi Group donated RMB 15 million to support flood control and disaster relief in Henan
August	<ul style="list-style-type: none"> LONGi Group became "The Exclusive Supplier of Green Energy Solutions for the 14th National Games"
September	<ul style="list-style-type: none"> LONGi Group was nominated for the Fourth China Quality Award due to its "LONGi Brand Quality House" quality management mode, and became the first company to win the honor in the PV industry LONGi Group was elected as a member of the China Enterprise Confederation for the first time and ranked in 365th place among the "Top 500 Chinese Enterprises" according to the China Enterprise Directors Association
October	<ul style="list-style-type: none"> LONGi first alkaline water electrolyzer come off the production line, signifying a firm step of LONGi forward to realize its "global leading hydrogen equipment and technology company" vision It was announced at the LONGi Group's COP15 Biodiversity event with the theme of "Embracing the Nature and Pursuing Zero Carbon" to make the LONGi Silicon (Baoshan) production base the first "zero-carbon plant" of LONGi Group by 2023 LONGi achieved another breakthrough in silicon-based HJT cells - conversion efficiency of up to 26.3%, having broken the world record of HJT cell efficiency for the third time within half a year
November	<ul style="list-style-type: none"> LONGi released its first white paper on climate action in the Chinese Enterprise Hall at the 2021 United Nations Climate Change Conference (COP26)
December	<ul style="list-style-type: none"> LONGi Group founded the Future Technology Research Institute jointly with Lanzhou University LONGi Group was titled as "China's Best Employer of 2021"

■ GRI & SASB Content Indexes

GRI Index			
	Indicator	Page	Description
	102-1	P7	Name of the organization
	102-2	P7	Activities, brands, products and services
	102-3	P7	Location of headquarters
	102-4	P7-8	Location of operations
	102-5	P7	Ownership and legal form
	102-6	P7-8	Markets Served(including regional market segments, affiliated industry, types of customers/beneficiaries)
	102-7	P7, P69	Scale of the organization scale
	102-8	P69	Information on employees and other workers
	102-9	P52-53	Supply chain
	102-10	P52-53	Significant changes to the organization and its supply chain
	102-11	P27,P57	Precautionary Principle or approach
	102-12	P18	External initiatives
	102-13	P18	Membership of associations
	102-14	P5-6	Statement from senior decision-maker
GRI 102 General Disclosures	102-15	P27-28	Key impacts, risks and opportunities
	102-16	P9	Value, principles, standards and norms of behavior
	102-17	P79	Mechanisms for advice and concerns about ethics
	102-18	P19	Governance structure
	102-19	P19	Delegating authority
	102-20	P19	Executive-level responsibility for economic, environmental, and social topics
	102-21	P22	Consulting stakeholders on economic, environmental and social topics
	102-22	P76	Composition of the highest governance body and its committees
	102-26	P19	Role of the highest governance body in setting purpose, values, and strategy
	102-29	P21	Identifying and managing economic, environmental, and social topics
	102-30	P19	Effectiveness of risk management processes
	102-31	P21	Review of economic, environmental, and social topics
	102-33	P19	Communicating critical concerns
	102-34	P21	Nature and total number of critical concerns
	102-40	P22	List of stakeholder groups
	102-41	P65	Collective bargaining agreements

	Indicator	Page	Description	
	102-42	Identifying and selecting stakeholders	P22	
	102-43	Approach to stakeholder engagement	P21-22	
	102-44	Key topics and concerns raised	P21-22	
	102-45	Entities included in consolidated financial statements	P4	
	102-46	Defining report content and topic Boundaries	P4	
	102-47	List of material topics	P21	
	102-48	Restatements of information	None	No information restatement
	102-49	Changes in reporting	None	No major change
	102-50	Reporting period	P4	
	102-51	Date of the most recent report	P4	
	102-52	Reporting cycle	P4	
	102-53	Contact point for questions regarding the report	P4	
	102-54	Claims of reporting in accordance with the GRI standards	P4	
	102-55	GRI content index	P82-83	
	102-56	External assurance	P87-89	
	GRI 201 Economic Performance	103	Management Approach	P77
201-2		Financial impactions and other risks and opportunities due to climate change	P28	
GRI 202 Market Presence	103	Management Approach	P69	
	202-2	Proportion of senior management hired from the local community	P69	
GRI 203 Indirect Economic Impacts	103	Management Approach	P71-72	
	203-1	Infrastructure investments and services supported	P71-72	
	203-2	Significant indirect economic impacts	P71-72	
GRI 205 Anti-corruption	103	Management Approach	P77-79	
	205-2	Communication and training about anti-corruption policies and procedures	P79	
	205-3	Confirmed incidents of corruption and actions taken	None	No corruption-related event occurred
GRI 301 Materials	103	Management Approach	P37-39, P62	
	301-3	Reclaimed products and their packaging materials	P62	
GRI 302 Energy	103	Management Approach	P31,P58	
	302-1	Energy consumption within the organization	P31	
	302-2	Energy consumption outside of the organization	P58	
	302-3	Energy intensity	P58	
	302-4	Reduction of energy consumption	P58	

	Indicator	Page	Description
GRI 303 Water and Effluents(2018)	103	Management Approach	P59-60
	301-1	Interactions with water as a shared resource	P59-60
	303-2	Management of water discharge-related impacts	P60
	303-3	Water withdrawal	P59
	303-4	Water discharge	P60
	303-5	Water consumption	P59-60
GRI 305 Emissions	103	Management Approach	P29, P61
	305-1	Direct (Scope 1) GHG emissions	P29
	305-2	Energy indirect (Scope 2) GHG emissions	P29
	305-3	Other indirect (Scope 3) GHG emissions	P29
	305-5	Reduction of GHG emissions	P29-30
	305-7	Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions	P61
GRI 306 Effluents and Waste	103	Management Approach	P37-39,P62
	306-1	Waste generation and significant waste-related impacts	P37-39,P62
	306-2	Management of significant waste-related impacts	P37-39,P62
	306-3	Waste generated	P62
	306-4	Waste diverted from disposal	P62
	306-5	Waste directed to disposal	P62
GRI 307 Environmental Compliance	103	Management Approach	P57
	307-1	Non-compliance with environmental laws and regulations	P57
GRI 308 Supplier Environmental Assessment	103	Management Approach	P52-53
	308-1	New suppliers that were screened using environmental criteria	P52
GRI 401 Employment	103	Management Approach	P65-66
	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	P65-66
	401-3	Parental leave	P69
GRI 403 Occupational Health and safety (2018)	103	Management Approach	P66-67
	403-1	Occupational health and safety management system	P66
	403-2	Hazard identification, risk assessment and incident investigation	P66
	403-3	Occupational health service	P67
	403-5	Worker training on occupational health and safety	P67
	403-6	Promotion of worker health	P66-67
	403-8	Workers covered by an occupational health and safety management system	P66-67
	403-9	Work-related injuries	P66

	Indicator	Page	Description
GRI 404 Training and Education	103	Management Approach	P67-68
	404-1	Average hours of training per year per employee	P68
	404-2	Programs for upgrading employee skills and transition assistance programs	P68
GRI 405 Diversity and Equal Opportunity	103	Management Approach	P69
	405-1	Diversity of governance bodies and employees	P69
GRI 407 Freedom of Association and Collective Bargaining	103	Management Approach	P65
	407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	None LONGi respects employees' freedom of association and collective negotiation right
GRI 408 Child Labor	103	Management Approach	P65, P70
	408-1	Operations and suppliers highly susceptible of child labor	None LONGi prohibits employment of child labor
GRI 409 Forced or Compulsory Labor	103	Management Approach	P65,P70
	409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor Operations and suppliers at significant risk for incidents of child labor	None LONGi prohibits forced labor
GRI 414 Supplier Social Assessment	103	Management Approach	P52-53, P70
	414-1	New suppliers that were screened using social criteria	P52
GRI 417 Marketing and Labeling	103	Management Approach	P48
	417-3	Incidents of non-compliance concerning marketing communication	None No marketing-related violations occurred
GRI 419 Socioeconomic Compliance	103	Management Approach	P77-78
	419-1	Non-compliance with laws and regulations in the social and economic area	None No violation of social and economic laws and regulations occurred

SASB indicator index			
	Indicator	Page	Description
Energy Management in Manufacturing			
RR-ST-130a.1	(1) Total energy consumed	P31	
RR-ST-130a.1	(2)) Percentage grid electricity	P31	
RR-ST-130a.1	(3) percentage renewable	P31	
Water Management in Manufacturing			
RR-ST-140a.1	(1) Total water withdrawn	P59	
RR-ST-140a.1	(2)) Total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress Baseline Water Stress	P60	
RR-ST-140a.2	Description of water management risks and discussion of strategies and practices to mitigate those risks	P59-60	
Hazardous Waste Management			
RR-ST-150a.1	Amount of hazardous waste generated, percentage recycled	P62	
RR-ST-150a.2	Number and aggregate quantity of reportable spills, quantity recovered	None	N.A.
Ecological Impacts of Project Development			
RR-ST-160a.1	Number and duration of project delays related to ecological impacts	None	N.A.
RR-ST-160a.2	Description of efforts in solar energy system project development to address community and ecological impacts	P40-44 P71-72	
Management of Energy Infrastructure Integration & Related Regulations			
RR-ST-410a.1	Description of risks associated with integration of solar energy into existing energy infrastructure and discussion of efforts to manage those risks	P27-28	
RR-ST-410a.2	Description of risks and opportunities associated with energy policy and its impact on the integration of solar energy into existing energy infrastructure	P14-16	
Product End-of-life Management			
RR-ST-410b.1	Percentage of products sold that are recyclable or reusable	P39	
RR-ST-410b.2	Weight of end-of-life material recovered, percentage recycled	P62	
RR-ST-410b.3	Percentage of products by revenue that contain IEC 62474 declarable substances, arsenic compounds, antimony compounds, or beryllium compounds	None	Undisclosed
RR-ST-410b.4	Description of approach and strategies to design products for high-value recycling	P38	
Materials Sourcing			
RR-ST-440a.1	Description of the management of risks associated with the use of critical materials	P52	
RR-ST-440a.2	Description of the management of environmental risks associated with the polysilicon supply chain	P52	
Activity Metrics			
RR-ST-000.A	Total capacity of photovoltaic (PV) solar modules produced	P7	



ASSURANCE STATEMENT

SGS-CSTC'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE SUSTAINABILITY REPORT OF LONGI GREEN ENERGY TECHNOLOGY CO., LTD. FOR 2021

NATURE AND SCOPE OF THE ASSURANCE/VERIFICATION

SGS-CSTC was commissioned by the LONGi Green Technology Co. Ltd. (hereafter as "LONGi") to conduct an independent assurance of the Chinese version of LONGi's SUSTAINABILITY REPORT for 2021 (hereinafter called "the REPORT"). The scope of the assurance, based on the SGS CSR Assurance methodology, included the texts and data in accompanying tables. We are offsite verified the data and the information which contained in the REPORT about the LONGi head-office and the business unit at No. 388, HangtianZhonglu, Chang'an Distric xi'an City, Shaanxi Province, P.R. China. The other affiliates were not included in this assurance process. The information in the REPORT is the sole responsibility of the chairman and the relevant function department of LONGi. SGS has not been involved in the preparation of any of the material included in the REPORT.

Our responsibility is to inform all LONGi's stakeholders of our opinions on the text, data, charts and statements within the scope of verification as specified below.

SGS has developed a set of regulations for the verification of sustainability reports based on internationally recognized standards and guidelines, including the principles of accuracy and reliability of the Global Reporting Initiative Standards (GRI STANDARDS) and verification levels in the AA1000 standards listing.

This REPORT has been assured at a moderate level of scrutiny using our protocols for:

- evaluation of content veracity; and
- evaluation of the report against core option of GRI Standards (2016).

The verification includes pre-verification surveys, online interviews with relevant LONGi's employees comes from their head-office and the business unit., verification and checking relevant documents and data.

The financial data and GHG data in the Report was independently audited by the other third parties and was not checked against the source data as part of this verification process.

STATEMENT OF INDEPENDENCE AND COMPETENCE

SGS is an internationally recognized body for inspection, appraisal, testing and certification, a recognized benchmark for quality and integrity, and has a global service network. SGS affirms that it is a completely independent organization from LONGi, and that there is no bias or conflict of interest against LONGi, its affiliates and stakeholders.

The verification team was assembled based on their knowledge, experience and qualifications for this assignment, and comprised of CSR lead assesor by SGS, CCAA registered ISO 9001, ISO 14001 and ISO 45001 auditor and SAAS registered SA8000 auditor.

VERIFICATION/ ASSURANCE OPINION

Based on the above methodology and verification, the information and data contained in the REPORT is accurate and reliable, providing a fair and pertinent assessment on the sustainability activities of LONGi in 2021.

The verification team believes that the REPORT can be used by the stakeholders for reporting organization.

SGS believes that the organization has selected an appropriate compliance option in the REPORT.

Conclusions, Findings and Recommendations of GRI Standards

SGS believes that the REPORT has met with all the requirements of the core option for GRI Standards on reporting content and principles.

Stakeholder Participation

LONGi has identified stakeholders related to its own activities, has considered the reasonable expectations and interests of stakeholders, and has adopted certain methods to communicate with stakeholders.

Sustainability Context

LONGi had demonstrated its efforts in sustainable development from economic, environmental and social aspects, and had disclosed the performances in combination with the background of sustainable development.

Materiality

LONGi focuses on the issues of stakeholders which reflects the important impact on the economy, environment and society, and reasonably discloses important issues and indicators that have a substantial impact on evaluation and decision-making of stakeholders.

Completeness

The REPORT covers identifiable material aspects and their boundaries, reflecting the important impact on the economy, environment and society, so that stakeholders can evaluate the performance of LONGi during the reporting period.

Balance

The REPORT complies with the principle of balance, and faithfully discloses positive and part of non-positive performance.

Comparability

The REPORT discloses various relevant performance indicators for 2021, and some of the performance indicators disclose historical data, which could help stakeholders to understand and visually compare the performance of sustainability. It is suggested that LONGi further improve the comparability of social performance.

Accuracy

The REPORT contains accurate content information, which can publicly disclose qualitative and quantitative information about lots of performance indicators to stakeholders.

Timeliness

LONGi issued its sustainability / corporate social responsibility report from 2018, and this is the 5th REPORT. LONGi will report on a regular schedule once a year to assure the good timeliness.

Clarity

The REPORT uses a variety of expressions such as text descriptions, data tables, graphics, photos, also described and narrated with actual cases to ensure the stakeholders understand it easily.

Reliability

The information and data in the REPORT had been collected, recorded and analyzed timely, and which was authentic and reliable.

Management Method

The REPORT has disclosed the management approach of the identified material topics.

General Disclosures

The general disclosure of LONGi meets the requirements of the GRI standards core option.

Topic-Specific Disclosures

LONGi discloses special topics related to the identified important economic, environmental and social substantive issues in accordance with the requirements of the GRI standards core option.

Findings and Recommendations

The good practices found in the verification process and the sustainability report, the recommendations in the management process are described in the internal management report of the sustainability report verification, which had been submitted to the relevant management departments of LONGi for reference to continuous improvement.

Limitations of Verification

This verification only offsite visited the LONGi head-office and the business unit. Affected by the COVID-19 prevention, the verification team did not make an onsite visit, and online traced the information which disclosed in the REPORT.

Signed:



On behalf of SGS-CSTC Standards Technical Services Co., Ltd.
A-16/F Century Yuhui Mansion, No.73 Fucheng Road, Haidian District, Beijing, China

April 24th, 2022
WWW.SGS.COM

Explanation of Professional Terms

Term	Definition
Monocrystalline silicon	Single-crystal silicon with silicon atoms are cyclically arranged single crystals, which is produced by using the Czochralski method (CZ) and float-zone melting method (FZ) with highly pure polycrystalline silicon as the raw material
Silicon wafer	Square or octagonal slices cut from monocrystalline silicon rods or polycrystalline ingots
Silicon rod	Rod-shaped single-crystal silicon made by using CZ and FZ methods with polycrystalline silicon as the raw material
Cell	Solar cell, a device that transforms solar radiation into electricity by using semiconductor material based on the photovoltaic conversion principle, also known as "PV cell"
Module	Solar module comprises many solar power generating units connected in series. It amplifies solar power generating units of low power to become photovoltaic devices that have high power and can be separately used to charge batteries or connected in series or in parallel to serve as a power-generating unit for an off-grid or grid-connected solar power supply system
MW	Megawatt, power unit of solar cells, 1 MW = 1,000 kW
GW	Gigawatt, power unit of solar cells, 1 GW = 1,000 MW
Cell conversion efficiency	Ratio of the optimal output power of a solar cell to the solar energy shining on the surface of the solar cell
BIPV	Building integrated PV (BIPV) is a technology that integrates solar power generation (photovoltaic) products with buildings
GRI	Abbreviation for Global Reporting Initiative, which aims to provide a generally accepted enterprise social responsibility reporting framework
EHS	Abbreviation for environment, health and safety, full name in English: Environment Health and Safety Management System, which is an integration of Environmental Management System (EMS) and Occupational Health and Safety Management System (OHSMS)
SBTi	Science-based Target Initiative is a global initiative launched by the World Wildlife Fund (WWF), the Carbon Disclosure Project (CDP), the World Resources Institute (WRI) and the UN Global Compact (UNGC) in 2015. This initiative provides industry-specific resources and practice guidance, and helps enterprises establish their own carbon reduction targets to meet the decarbonization requirement of far lower than 2 or 1.5 degrees according to the assessment report of the United National Inter-government Panel on Climate Change
RE100	Initiated by the Climate Group, which, jointly with such enterprises of extremely great global influence as Apple, Google, Facebook, Coca-Cola, Microsoft, Philip and Godman Sachs, commits to realizing world-wide 100% renewable power in the shortest period (by 2050 at the latest)
EV100	A global initiative under the Climate Group, encouraging enterprises and individuals to use electric car for daily traveling, so as to reduce air pollution and respond to the climate change, and aiming to make electric vehicles as the new normal by 2030
EP100	Another global initiative of the Climate Group, encouraging enterprises to promote energy efficiency and realize energy saving and emission reduction targets through targeted energy integration and business strategy adjustment

Feedback Form

Dear readers,

Thank you for reading LONGi Group 2021 Sustainability Report. Please kindly fill the feedback form and submit it. It will help improve LONGi's sustainable development and the report quality. We hereby commit to keeping your personal information in strict confidentiality.

Personal information

*Name: _____ *Email: _____

* Which stakeholder you belong to?

Employee Customer Government General Public
Supplier Public organization Others

Your feedback:

* Your general comment on the report:

Excellent Good Ordinary Bad

* Your comment on performance of environmental responsibility by LONGi as disclosed in the report:

Excellent Good Ordinary Bad

* Your comment on performance of social responsibility by LONGi as disclosed in the report:

Excellent Good Ordinary Bad

* Your comment on performance of control and management responsibility by LONGi as disclosed in the report:

Excellent Good Ordinary Bad

* Has the report provided information you want:

Yes No

* Do you think the content arrangement and layout design of the report are easy for reading:

Yes No

* What information you want to know but is not reflected in the report:

* What opinions and suggestions do you have on sustainable development efforts of LONGi Group?

*What additional information do you want to know from the sustainability report of LONGi Group?

LONGi Internal Complaints Reporting Channel

WeChat
Public Platform



LONGi Breeze



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

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