



Yingli Energy Development Co., Ltd.

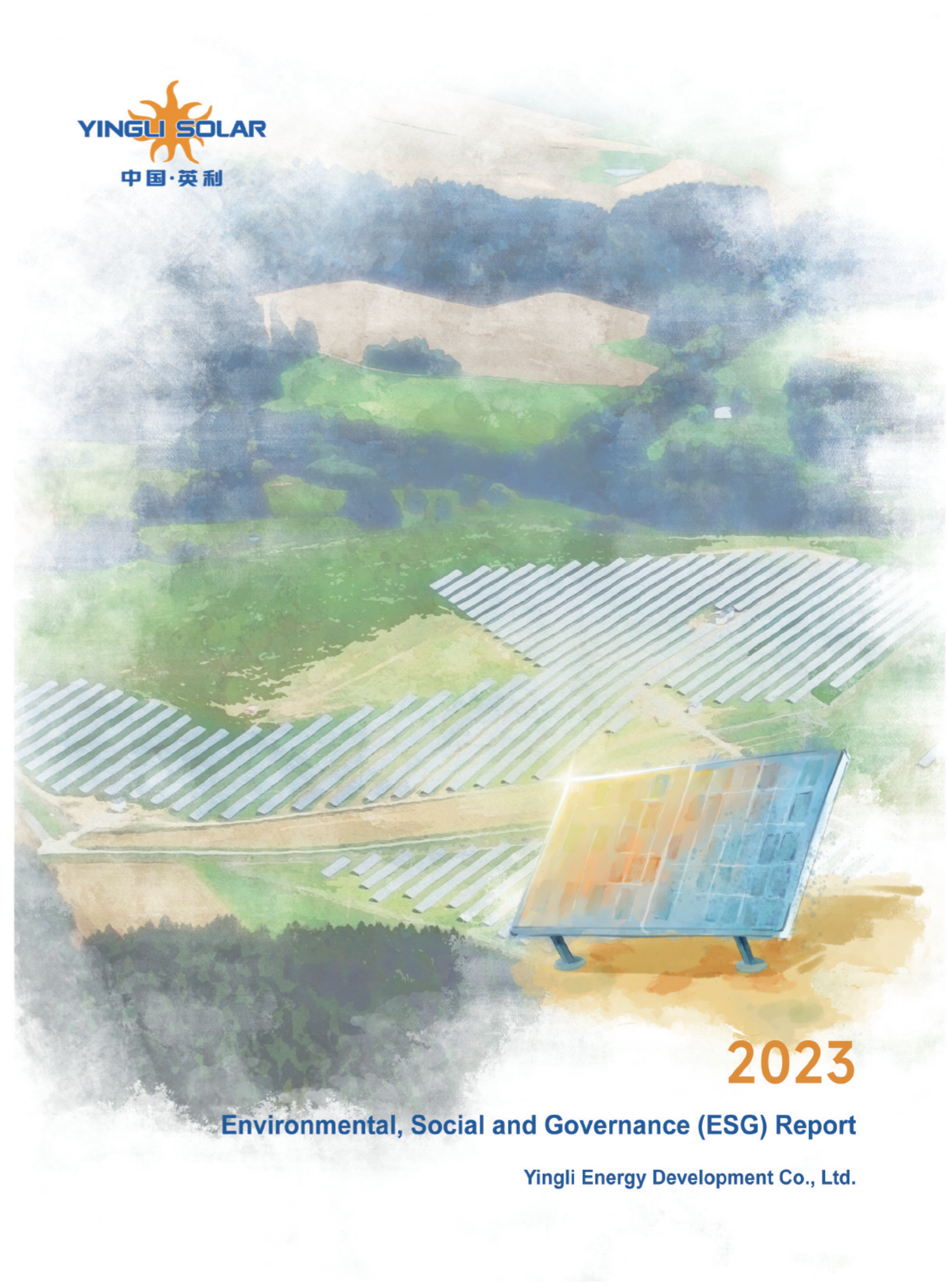
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2023

Environmental, Social and Governance (ESG) Report

Yingli Energy Development Co., Ltd.

About this Report

As the second Environmental, Social and Governance (ESG) Report issued by Yingli Energy Development Co., Ltd., this report is prepared in an objective, standardized, transparent and comprehensive manner to fully disclose Yingli Solar's specific measures, major practices, highlight cases and key performances in actively assuming social responsibility and promoting sustainable development and other areas in 2023, with a view to responding to the expectations of stakeholders and fulfilling its social responsibilities more efficiently in the future.

Reporting Period

The Report is an annual report, covering the period from January 1 to December 31, 2023. In order to enhance the comparability and completeness of the Report, certain sections of the report appropriately retrospect previous years and include forward-looking statements.

Reporting Scope

The Report takes Yingli Energy Development Co., Ltd. as the main body, covering the three major bases of Tianjin, Hengshui and Li County, namely:

Yingli Energy Development (Tianjin) Co., Ltd. (hereinafter referred to as the "Tianjin Base"), Address: No. 5, Haihang East Road, Ninghe Modern Industrial Park, Tianjin Municipality, China

Yingli Energy Development (Hengshui) Co., Ltd. (hereinafter referred to as the "Hengshui Base"), Address: No. 969, Wei 17 Road, High-tech Zone, Hengshui City, Hebei Province, China

Yingli Energy Development (Li County) Co., Ltd. (hereinafter referred to as the "Li County Base"), Address: No. 655, High-tech Industrial Park, Yongsheng North Street, Li County, Baoding City, Hebei Province, China.

References

This report was primarily prepared in accordance with the Sustainable Development Reporting Standards (GRI Standards) issued by the Global Reporting Initiative (GRI) and the requirements of the United Nations Sustainable Development Goals (UN SDGs 2030). It also extensively references relevant guidelines and directives, such as the ESG Reporting Guide of the Hong Kong Stock Exchange (HKEX) and other related guidance.

Data Source & Assurance of Reliability

The information and data cited in this report are all derived from internal documents of Yingli Solar or relevant public materials. The Report was reviewed and approved for release by the Company's Board of Directors. The Company guarantees that the Report is free from false records, misleading representations, or material omissions, and the Company is responsible for the authenticity, accuracy and completeness of its content.

Access to the Report

To view or download the Report online, please visit the website of Yingli Energy Development Co., Ltd. (<https://www.yinglisolar.com/>).

Names in the Report

Yingli Solar, this Company, Company, We Refer to Yingli Energy Development Co., Ltd.

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Message from Chairman

2023 has witnessed Yingli Solar's endeavors amid intense market competition and breakthroughs in overall business operation. The Company vigorously promoted key projects, continually refined its corporate governance structure and operational management framework, and comprehensively advanced the construction of its management system, working hand in hand with partners to share both risks and opportunities.

Yingli Solar is actively committed to reducing greenhouse gas emissions.

It is the year when Yingli Solar actively committed to reducing greenhouse gas (GHG) emissions. Based on the sustainable environmental philosophy, the Company deeply integrated green and environment-friendly practices into all aspects of production and operations. Green, high-quality development has been elevated to a strategic level, with the Company's long-term green development goals and directions clearly defined. Leveraging an integrated business model of "Innovation + Technology + Industry + Service," the Company provided clients with industry-leading one-stop efficient services for comprehensive clean energy solutions. It initiated a green supply chain action plan to drive the coordinated green development of the photovoltaic industry.

Yingli Solar continually enhanced its operational management level.

It is the year when Yingli Solar continually enhanced its operational management level, deeply engaged in corporate culture development and actively explored systemic and model innovations. External cooperation was also improved to, on the basis of risk prevention, constantly promote a significant increase in overall operational efficiency. Through its Quality Month activities, the Company created a five-in-one quality management system to enhance product quality. 6S work groups were established to undertake 6S management in production, continuously improve work efficiency, and lay a solid foundation for its sustainable healthy development.

Yingli Solar continued to strengthen research and technological innovation.

It is the year when Yingli Solar continued to strengthen research and technological innovation, kept driving business development and reducing production costs through innovation. It developed differentiated products based on market demand, made outstanding achievements in intellectual property construction and stayed at the technological forefront of the whole industry. Newly launched products included the "Marine Star", which is suitable for marine environments, lightweight products for distributed markets, and the high-efficiency PANDA3.0 N-type TOPCon Series products. In 2023, the numbers of patents applied and granted were both record high.

Yingli Solar vigorously developed its multi-layered talent team.

It is the year when Yingli Solar vigorously developed its multi-layered talent team, fully safeguarded employee rights and continually strengthened management training for cadres and new employees, and regarded the construction of talents as the fundamental aspect of company development. The Company put more effort on the recruitment of graduates from top universities and masters' programs, selecting high-quality, highly educated and skilled young talents as reserve cadres, and focused on building project management teams with stable core personnel. Yingli Solar is also collaborating with all parties for mutual development, fulfilling its corporate social responsibilities, supporting charitable causes, and contributing to societal development.

Success is achieved by persistence, and progress by action. Yingli Solar will rally its spirits, unite all efforts, and motivate employees with the spirit of the new era, striving to build a first-class photovoltaic enterprise. The Company's development will be integrated into the national dual-carbon strategy to resolutely fulfill corporate mission, and drive the development towards a higher quality to showcase Yingli Solar's new responsibilities and achievements in the new era and journey ahead!






About Us

Company Profile

Yingli Solar, among the earliest Chinese enterprises that engage in the photovoltaic sector, has now developed into a provider of smart photovoltaic energy solutions with focuses on R&D, intelligent manufacturing, and power plant development & operations. Yingli Solar has been engaged in the photovoltaic industry for 24 years, with over 30 GW products available in more than 100 countries and regions across the world.

Headquartered in Baoding City, Hebei Province, Yingli Solar has set up manufacturing bases in Baoding, Tianjin, Hengshui, etc. and introduced advanced instruments and equipment domestically and internationally, making its entire production process intelligent, automated, precise and efficient. Thanks to its extensive global service network, Yingli Solar operates branches and offices across Europe, Oceania, North America, Latin America and Asia. This enables the company to offer localized service teams and after-sales service centers to customers worldwide.

Corporate Culture

 Mission Build a Green and Beautiful Homeland for All	 Vision To be a global leader in green and intelligent energy technology
 Enterprise Spirit Responsibility, Tenacity, Innovation, High efficiency	 Core Values Trust, Delivery, Growth, Sharing

Honors & Awards



ESG Governance Architecture

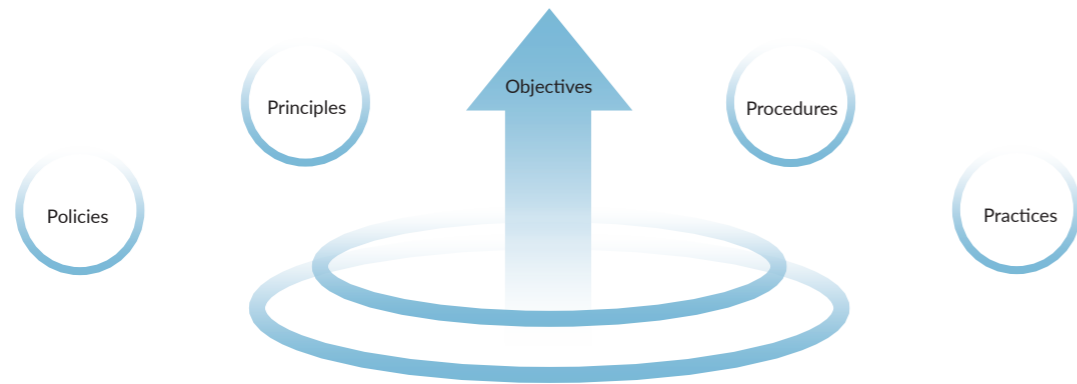
In order to strengthen the management of shareholders' rights, anti-corruption, internal control compliance, risk prevention and control, the control of product quality, labor rights, employee health and safety, supply chain management, and promote the green operation and sustainable development of the Company, the ESG management committee is set up under the Board of Directors of Yingli Solar, responsible for the issuance and practice of ESG management policies.



ESG Management Committee	
The General Manager of Yingli Solar as the chairman of the committee	The Deputy General Manager and the Human Resources Director as the vice chairman of the committee
The managers of various departments and three major production bases constitute committee members	
Manage the corporate environment, including reducing carbon emissions, energy consumption and water use, ensuring that corporate environmental objectives are met, preparing regular environmental reports and conducting environmental audits;	
Pay attention to employee welfare, support community development, strive to safeguard consumer rights and interests, and ensure continuous improvement of social responsibility;	
Ensure reasonable operation of corporate governance, including internal control compliance, safeguarding business ethics, anti-corruption, safeguarding shareholders' rights and interests, and risk prevention and control.	



Yingli Solar has developed the SA8000 Management Manual in accordance with the Social Accountability International SA8000 Standard and Chinese labor laws and regulations, taking into account industry development trends and features of the Company's strategy. The manual stipulates the Company's policies, principles, objectives, procedures, and practices regarding social responsibility. It serves as the foundation for the Company's fulfillment of social responsibilities, maintenance of positive labor relations, improvement of working conditions, and continuous enhancement of employee salary and welfare benefits. The company will regularly conduct internal audits and management reviews, and take timely and effective remedial and corrective actions when necessary to ensure that the company's business activities always comply with international labor standards and national labor laws and regulations.



Discussion on Material Issues

To fully and accurately convey Yingli Solar's work progress in sustainable development to internal and external stakeholders, the Company analyzed domestic and foreign sustainable development-related standards, benchmarked industry enterprises' sustainable development information disclosure, and combined the Company's actual development to identify important internal and external issues. The Company has formed an ESG issue database, and a total of 17 ESG issues have been identified.

Governance issues	Social issues	Environmental issues
<ul style="list-style-type: none"> Corporate governance Internal control, compliance and risk management Business ethics Economic performance and taxation 	<ul style="list-style-type: none"> Product quality R&D innovation Customer Service and Satisfaction Employment and Labor Guidelines Employee grievance mechanism Occupational health and safety Staff training Supplier Management Community engagement 	<ul style="list-style-type: none"> Environmental management Resource management Pollutant discharge and control Green operations

Stakeholder Engagement

The Company attaches great importance to daily communication with stakeholders, establishes diversified communication channels to receive opinions and suggestions from important stakeholders such as government and regulatory authorities, shareholders, employees, consumers, partners, communities, etc., and strives to actively respond to the expectations and demands of stakeholders and jointly promote the sustainable development of all parties.

Stakeholders	Expectations and Demands	Response Approaches
 Government and regulatory authorities	<ul style="list-style-type: none"> Operate in compliance with the law Implement national policies 	<ul style="list-style-type: none"> Operate in good faith Pay taxes according to the law Respond to national policies and regulations
 Stakeholders	<ul style="list-style-type: none"> Sustainable investment value Optimized corporate governance Performance growth 	<ul style="list-style-type: none"> Create sustainable operational value Make scientific decisions Hold Shareholders' General Meetings
 Employees	<ul style="list-style-type: none"> Protect legal rights and interests Value career development Care for employees physically and mentally 	<ul style="list-style-type: none"> Sign labor contracts in compliance Conduct regular staff training Strengthen safety production inspections
 Customers	<ul style="list-style-type: none"> Provide quality products and services Protect customer rights and privacy 	<ul style="list-style-type: none"> Optimize quality management system Conduct product innovation and research Improve after-sales service network
 Partners/Suppliers	<ul style="list-style-type: none"> Ensure fair competition Win-win for both sides 	<ul style="list-style-type: none"> Engage in sunshine procurement to eliminate commercial bribery Establish a supplier audit and evaluation mechanism Promote collaboration and communication
 Communities	<ul style="list-style-type: none"> Serve community development Protect the ecological environment 	<ul style="list-style-type: none"> Participate in community co-construction Save energy, reduce emission, and strengthen the Three Waste Management Identify environmental risks and strengthen environmental information disclosure
 Media/NGOs	<ul style="list-style-type: none"> Disclose information Interact with the media 	<ul style="list-style-type: none"> Disclose information timely through official websites, newspapers, online media and other channels Establish complete media communication mechanisms



Environmental Section

Embracing Green Initiatives,
Contributing to the Wisdom of
Low-carbon Energy



Combating Climate Change

Global warming has been commonly acknowledged as the key environmental issue in the world. Yingli Solar deeply appreciates and understands the impact of GHG emissions on the environment and ecology. Based on the concept of sustainable growth and the obligation to fulfill corporate social responsibility, the Company actively strives to reduce GHG emissions. The Company has established a dedicated strategic planning management system, elevating green and high-quality development to a strategic height, and clearly defining the Company's long-term green growth goals and directions. Specific measures to reduce GHG emissions, improve energy efficiency, and conserve resources are included in the Company's three-year strategic plan.

The Company continues to conduct research and innovation in carbon emission reduction technologies, striving to promote the development and application of clean energy, and contributing to environmental protection and green growth. As a pioneer in carbon neutrality in the photovoltaic industry, the Company has achieved six "No.1" accomplishments:

	The first in China and the first in the world's photovoltaic field to join WWF's "Carbon Emission Reduction Pioneer" project		China's first photovoltaic company to join PV CYCLE
	The world's first photovoltaic company to receive TÜV Rheinland carbon footprint certification		The World Cup's first zero-emission sponsor and zero-emission display area
	Participated in the compilation of the first clean production evaluation indicator system in the domestic photovoltaic industry		One of the first batch of photovoltaic companies to release the Carbon Neutrality White Paper, working together with upstream and downstream companies to promote carbon neutrality

The Company adheres to the requirements of ISO 14064-1:2018 standard and identifies emission sources as per the organizational boundaries of Yingli Solar. It identifies the GHG emissions for the year 2023 from Yingli Solar headquarters and three production bases (Tianjin Base, Hengshui Base, and Li County Base), and compiles the Energy Carbon Emission Report. Emission sources include:

Emission Source	Workshop/Activity or Equipment Name
Direct emission sources (Scope 1)	Refrigerant for refrigerator (R134a leakage), natural gas for catering, steam for heating, diesel for emergency power system engines (including pickup trucks), CO2 portable fire extinguishers (CO2 leakage), septic tanks (CH4 leakage), product logistics (diesel)
Energy indirect emission sources (Scope 2)	Electricity input for various equipment
Other indirect emission sources (Scope 3)	Personnel travel (cars, trains, airplanes)

GHG Emissions from Yingli Solar Headquarters and Three Production Bases in Scope 1 and Scope 2

	Actual Situation in 2023	Actual Situation in 2022
Total GHG emissions (tCO2e)	71,939	58,367
Unit Output GHG Emission Intensity (tCO2e per megawatt)	15.32	17.96

In 2023, Yingli Solar expanded production capacity at its Li County and Tianjin production bases, increasing output by approximately 45% compared to 2022. The Company effectively promoted GHG emission reduction activities in the product manufacturing process, resulting in a 15% reduction in GHG emission intensity in 2023.

Production in 2023 increased around **45%** compared to 2022

greenhouse gas emissions intensity in 2023 reduced by **15%**

Promoting Green Development in the Industry

By virtue of its integrated business growth model of "Innovation + Technology + Industry + Service," the Company provides customers with industry-leading clean energy solutions and efficient one-stop services. The Company's power station business involves distributed photovoltaic power stations, industrial and commercial rooftops, distributed throughout the county, large and medium-sized ground-mounted photovoltaic stations, agricultural-photovoltaic complementary power stations, and fishery-photovoltaic complementary power stations. By effectively integrating R&D, manufacturing, and application in the photovoltaic solar energy industry, the Company is developing residential distributed business. Yingli Solar seizes the favorable opportunity of the global energy structure's green transformation, adheres to innovation-driven development, focuses on the development of clean energy, actively constructs a green energy system, and contributes to the realization of carbon neutrality goals.

Business involves

- Distributed photovoltaic power stations
- Industrial and commercial rooftops
- Large and medium-sized ground-mounted photovoltaic stations
- Fishery-photovoltaic complementary power stations
- Distributed throughout the county
- Agricultural-photovoltaic complementary power stations

Ground level station projects	Commercial projects	Residential and Photovoltaic+ Projects
	Great Wall Motor Photovoltaic Rooftop Grid-connected Power Generation Project Project Capacity: 45 MW	Shanghai Hongqiao Station Project Project Capacity: 6.7 KW
Zhangbei "Internet + Smart Energy" Demonstration Project Project Capacity: 240 MW		
	Maracanã Stadium Project Project Capacity: 390 KW	Xiong'an High-speed Railway Station Project Project Capacity: 6 MW



Yingli Solar's Solutions Making a Debut in the International Market

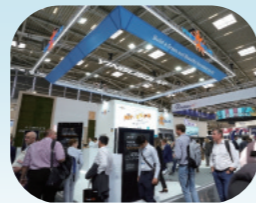
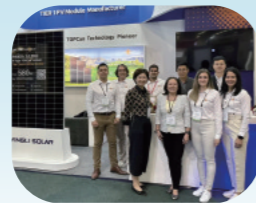
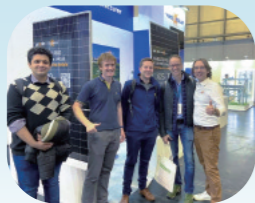
As a long established player in the photovoltaic industry, Yingli Solar provides component products and technical services for various projects overseas, enjoying enduring influence and strong competitiveness both domestically and internationally. It has been honored with certifications such as "Top PV Brand" by EUPD and "Best Performance" by PVEL as a component manufacturer. Through participation in various international exhibitions, Yingli Solar has laid a solid foundation for deepening cooperation with local clients. In the future, Yingli Solar will strengthen its R&D of differentiated products and innovation, aiming to provide higher quality solutions and attentive services globally, contributing to the process of global carbon neutrality.

- EUPD Top PV Brand
- PVEL Best Performance



Case: Yingli Solar Products Shining at International Exhibitions

The 144-cell and 156-cell N-type TOPCon modules were exhibited at The Green Expo in Mexico.



Products such as the Panda 3.0 Series 625W dual-glass modules and 580W dual-glass modules were showcased at the Solar & Storage Live UK.

The Panda 3.0 series of sea, land, and air all-scenario application modules were featured at the Intersolar Europe.



Case: Yingli Solar Winning EUPD Germany SolarProsumer Award



On June 15, 2023, during the Intersolar Europe exhibition, the European authoritative research institution EUPD Research awarded Yingli Solar the "Solar Prosumer Award."

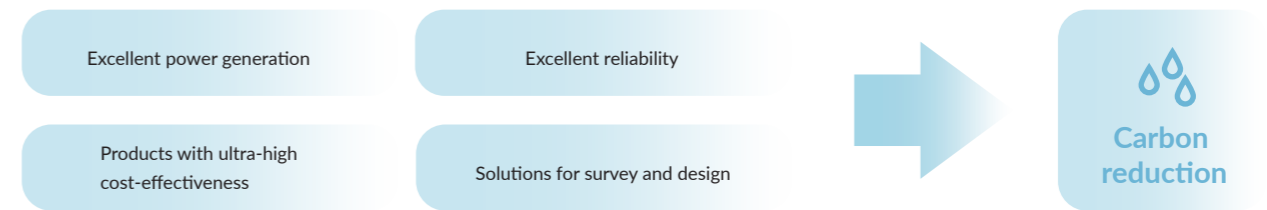


In the 2022-2023 survey, Yingli Solar stood out among numerous photovoltaic enterprises, receiving the top certification in the component category of the SolarProsumer Award in the German market, demonstrating the brand's influence in the German market once again.

Advancing Green Transformation

Product Design

Yingli Solar is committed to complying with relevant environmental regulations and strives to develop environmentally friendly and resource-saving products. In 2009, the Company collaborated with TÜV Rheinland Germany to conduct a carbon footprint analysis report on the Company's photovoltaic modules. Currently, plans are underway to establish an internal carbon reduction platform, set up an internal carbon management team, and establish a carbon asset management department. The Company designs emission reduction plans and determines emission reduction paths tailored to its specific circumstances; develops internal carbon asset management system; and utilizes green financial tools to maximize cost reduction and efficiency improvement. The Company will work with internationally renowned "carbon footprint" certification agencies to further expand certification for its full range of products.



As a pioneer in the research and production of n-type batteries in China, Yingli Solar has utilized independently developed core technologies and national-level experimental capabilities. With the support of national programs such as the National 863 Program, the 973 Program, and the National Key R&D Program of China, it has achieved the first large-scale application of n-type monocrystalline double-sided products and formulated the first testing standards. Continuously exploring the frontiers of power generation and cost per kilowatt-hour of n-type batteries, Yingli Solar has realized the practicality of n-type batteries in all climates and latitudes, providing distributed users with excellent power generation, outstanding reliability, and products with superior cost-effectiveness, as well as surveying and designing solutions to help meet the "dual carbon" goal.

Panda Technology	First in China	Development and mass production of n-type
	First globally	Triple certification of double-sided products by CGC, UL, and TÜV Rheinland
	First in the world	Large-scale application of n-type monocrystalline double-sided power generation technology
	First in the industry	Double-sided power generation testing standards
Panda 3.0 Cells	Higher power generation	Double-sided power generation characteristics, excellent low-light performance, low initial light attenuation, good temperature coefficient
	Lower electricity cost	Achieved a cost reduction of RMB 0.005/kWh, with subsequent reductions reaching RMB 0.009/kWh as product performance gradually improves
	Superior environmental adaptability	Components featuring outstanding resistance to snow load, low temperature, humidity, and salt spray corrosion



Green Procurement

Yingli Solar has initiated the Green Supply Chain Action Plan, jointly releasing the Green Supply Chain Supports Carbon Peaking and Carbon Neutrality Initiative with nearly a hundred enterprises in the new energy industry chain. The initiative calls for all frontline suppliers of the Company to make strong commitments to improving energy efficiency and reducing GHG emissions, thereby promoting the green coordinated development of the industry.



Case: Mr. Yin Xulong, Chairman of Yingli Solar, invited to attend the 2023 Green Low-Carbon High-Quality Development Conference



From August 28 to 30, 2023, during the conference, Yingli Solar, in collaboration with the Yantai Municipal Government, the Supply Chain Working Committee of the China Petroleum and Chemical Industry Federation, and the Research Institute of Machinery Industry Economic & Management, among other relevant entities, jointly established the New Energy Equipment Industry Alliance. This alliance aims to support the transformation and upgrading of Shandong's green energy industry.



Case: Yingli Solar Invited to Participate in the 2nd China PV Green Supply Chain Conference



On August 18, 2023, the Company engaged in discussions with numerous industry representatives on the new trends in photovoltaic development to empower the green, low-carbon, and sustainable development and market application of the photovoltaic industry, and signed a strategic cooperation agreement on carbon footprint with China Testing & Certification International Group Co., Ltd. ("CTC") during the "Photovoltaic Carbon Assessment and Management" forum of the 2nd China PV Green Supply Chain Conference hosted by CTC.

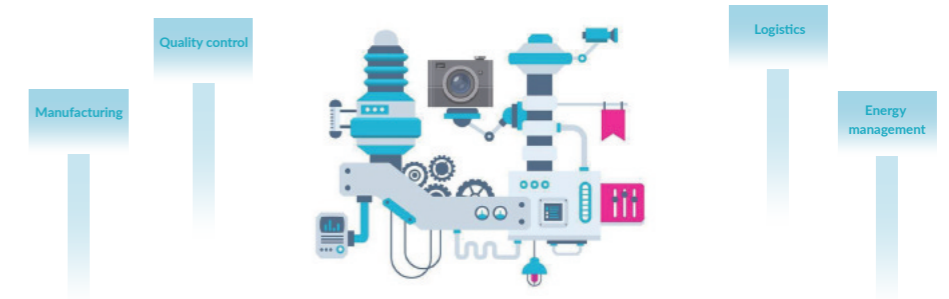
Green Production

Yingli Solar actively embraces the concept of carbon neutrality, focusing on the utilization of green energy and enhancing energy efficiency, as well as promoting clean and low-carbon development. The Company continuously conducts research and innovation in carbon reduction technologies, striving to advance the development and application of clean energy, and contributing to environmental protection and green development.



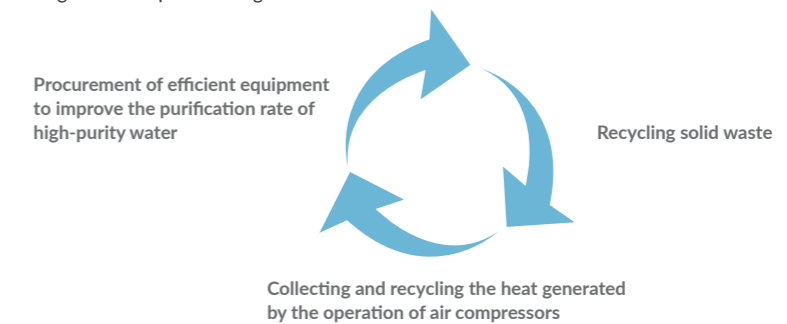
Intelligent Manufacturing

The Company concentrates on photovoltaic smart manufacturing and emphasizes development of power station industry. All industrial bases are equipped with industry-leading equipment and process technologies. Leveraging highly automated and intelligent production line technologies, including fully automated AGV logistics transport vehicles, MES intelligent manufacturing systems, automated testing and sorting, automated packaging line equipment, and R&D testing equipment, the Company achieves a high degree of automation in manufacturing, quality control, logistics, and energy management. This results in intelligent interconnection of production line equipment and digitized operations, establishing technology application production lines and "smart factories" at the international forefront. The Company has devoted to zero carbon park construction and established an intelligent energy system, which is fit for equipment and photovoltaic applications related to the power and environmental protection, to achieve zero carbon manufacturing and green manufacturing.



Green Factory

The 5GW battery project in Mancheng, Baoding adopts the concept of a green factory, investing heavily in establishing an energy consumption monitoring and management system to monitor energy consumption data in the plant area and take targeted measures. Through the procurement of efficient equipment to improve the purification rate of high-purity water, and measures such as collecting and recycling the heat generated by the operation of air compressors and recycling solid waste, the Company achieves ESG management and production goals.



Energy Management

In order to strengthen energy management, reduce energy consumption and improve energy efficiency, the Company has formulated the Energy Management System. The Company actively adopts new technologies, processes, materials, and equipment, promotes progress in energy-saving technology, formulates annual energy-saving project plans and Energy-Saving and Consumption-Reduction Project Transformation Plans, and supervises, inspects, and evaluates the implementation of energy-saving projects. An energy-saving incentive mechanism has been established to encourage employees to launch and participate in energy-saving work.



In 2023, the Company promoted energy-saving projects, achieving an annual electricity savings of approximately 3.802 million kWh.

Summary of Energy Conservation and Emission Reduction Projects in 2023

Project Name	Energy Saving Amount	Project Description
Optimization and Upgrading of Process and Air Conditioning Systems in Tianjin	Saved 476,000 kWh of electricity annually	The operation of workshop processes and air conditioning systems is complex, and efficient motors are used to improve the efficiency of water pump operation.
Upgrading and Transformation of Screw Air Compressors in Tianjin	Saved 2.04 million kWh of electricity annually	The equipment in the production fluctuation power equipment and component workshop lacks flexibility in matching. Efficient two-stage screw compressors are used to improve equipment operation efficiency, better matching the production situation in the component workshop.
Optimization Project for Process Cooling Water in Hengshui	Saved 500,000 kWh of electricity annually	The process cooling water circulation system is renovated, and the equipment is reconfigured. While ensuring stable production operation, significant electricity savings are achieved.
Zero Gas Consumption Dryer Project in Hengshui	Saved 600,000 kWh of electricity annually	Industry-leading zero gas consumption blowing-type dryers are used to replace existing dryers, significantly reducing gas consumption, lowering operating costs, and saving energy.
Energy-saving Transformation Project for Cooling Water Systems in Li County	Saved 186,000 kWh of electricity annually	Cooling water and chilled water pipelines are connected to the condenser and evaporator of the chiller, respectively. During periods of low temperatures in winter, the chiller water temperature and load are low, resulting in surges and shutdowns. An additional connecting pipeline is installed between the cooling water and chilled water to use a cooling tower to cool the cooling water during periods of low winter temperatures when the chiller is shut down.
Energy-saving Transformation Project for Air Compressors in Li County	Saved 200,000 kWh of electricity annually	The utilization rate of air compressors used in Workshop 4 of is low. By connecting the pipelines of Workshop 1 to Workshop 4, the compressed air discharged by the air compressors in Workshop 4 is reused by Workshop 1, improving the efficiency of the air compressors in Workshop 4, reducing the need for air compressors in Workshop 1, and saving energy.

Energy Use Management

Equipment power management

For major power-consuming equipment, reasonably allocate the start-up rate and start-up sequence, improve the single load rate, and reduce the unit consumption of products. Supervise and inspect the energy-saving and economical operation of power equipment and power-consuming equipment.

Equipment energy management

Timely check the energy-using equipment to avoid energy waste such as running and dripping. Require the equipment to stop according to the equipment maintenance requirements when not in production, maintenance and overhaul. Reduce the no-load operation of production and power equipment, maximize the load ratio, and reduce the unit energy consumption. Reduce standby energy consumption of office equipment such as computers, printers, and copiers.

Air conditioning and heating energy management

Strengthen the rational use of air conditioning and heating systems, clarify the using conditions and related requirements, and control the temperature and use time of air conditioning in office areas.

Lighting energy-saving management

Maximize the use of natural light and reduce the number of lights under the premise of meeting the illumination. Promote the concept of power saving, eliminate long light and daylight. Apply light-glass on the roof and keep the light-glass with good light transmission with regular cleaning.

Other energy management

Check the gas supply pipeline to avoid leakage and unreasonable use, regularly inspect the gas supply equipment and facilities to ensure the efficiency of the equipment. According to the requirements of relevant standards, take thermal insulation measures for heating (cooling) pipelines and equipment, clean them frequently to ensure the heat exchange efficiency of heat exchange equipment, and timely check the equipment accessories and insulation structure of heating (cooling) equipment.





Green Logistics

Yingli Solar considers the complete lifecycle of its products. As the first Chinese company to join PV CYCLE, the Company pledges to recycle all photovoltaic modules beyond their service life, contributing jointly to the return and recycling of photovoltaic modules, and striving to achieve green photovoltaics throughout the entire lifecycle.

In January 2023, a complete set of key technologies and application demonstration projects for green recycling and processing of crystalline silicon photovoltaic modules were approved as the third batch of intelligent photovoltaic pilot demonstration projects.



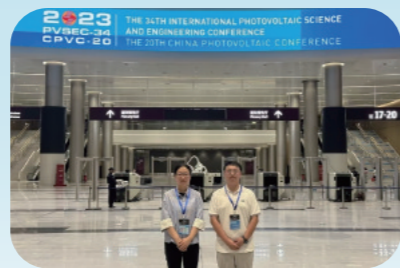
Case: "N-Type Leading, Convergence of Production Chain," the Company Invited to attend the 2023 Energy Materials Innovation and Sustainable Development Frontier Forum



From November 17 to 20, 2023, the "2023 Energy Materials Innovation and Sustainable Development Frontier Forum" organized by Southeast University and OAE Publishing Inc. was successfully held in Xi'an. Yingli Solar was invited to attend the conference and delivered a keynote report entitled "PANDA3.0: Research and Challenges of New Generation TOPCon High-Efficiency Battery Technology" at the sub-forum.



Case: Yingli Solar Participating in PVSEC for Global Energy Development Prospects



From November 6 to 10, 2023, the 34th International Photovoltaic Science and Engineering Conference (PVSEC) was grandly held at the Shenzhen World Exhibition and Convention Center. Representatives of Yingli Solar's technical team submitted papers related to TOPCon technology and attended the conference.

Strengthening Environmental Management

Environmental Management System

Implementing the national Environmental Protection Law, the Company has established the environmental management system according to the requirements of ISO 14001:2015 standards, formulated the General Principles of Environmental Management (Trial) and other rules and regulations, and prepared the 2023 version of the EHS Management Manual. The Company determines the division of environmental protection responsibilities and management requirements, analyzes environmental risks and opportunities, improves environmental protection emergency response capabilities, and conducts environmental performance evaluations, so as to continuously improve and enhance the Company's comprehensive environmental management level, and strive to achieve green development.





Three Waste Management

The Company strictly abides by the Air Pollution Prevention and Control Law, Solid Waste Pollution Environmental Protection Law and other relevant laws and regulations. The Hengshui Base has formulated the Pollutant Discharge Management Measures and the Hazardous Waste Management Measures. The Li County base has formulated the Pollutant Discharge Management Procedures and the Hazardous Chemical Control Management Procedures. The Tianjin Base has formulated documents such as the Solid Waste Pollution Prevention and Control Management Procedures and the Hazardous Waste Management System, and regularly monitored the wastewater, exhaust gas, noise, VOC and other figures to ensure that the pollutants discharged by the Company meet the standards.

Waste Gas Management

The Tianjin Base	Adopt photo-oxygen activated carbon integrated equipment to collect and treat workshop waste gas, integrating UV photolysis oxidation technology and activated carbon adsorption technology, degrading pollutants and reducing pollution to the environment.
The Hengshui Base	Adopt catalytic combustion treatment for workshop exhaust gas, match the exhaust gas treatment facilities and maintain normal operation to ensure the emission of exhaust gas pollutants in compliance with the standards.
The Li County Base	Adopt cartridge dust collector + activated carbon + catalytic combustion exhaust gas treatment measures, apply exhaust gas treatment facilities such as fans and spraying circulation pumps, adopt measures to control unorganized dust emissions.

Waste Water Management

The Company attaches importance to the conservation, efficient and sustainable use of water resources in production and operation, and actively promotes sustainable water resources management practices.

Regularly count the resource consumption, strictly control the amount of water used for production and living and require the valve to be closed in time when not used.



Frequently check the regional pipelines and repair the valves and pipelines in time in case of running or leaking water and prohibit the unauthorized connection of water.

Spread advanced experience and technology in water conservation, promote the application of water-saving equipment and appliances, and improve the efficiency of water resources.

Implement the reuse of resources, increase the use of reclaimed and recycled water, and encourage the use of reclaimed and recycled water in landscaping, environmental sanitation, construction and other water uses.

The Tianjin Base

Domestic wastewater is incorporated into the municipal sewage network after pretreatment and discharged into the sewage treatment plant of the park. The sewage discharge is monitored quarterly and all meet the standards.

The Hengshui Base

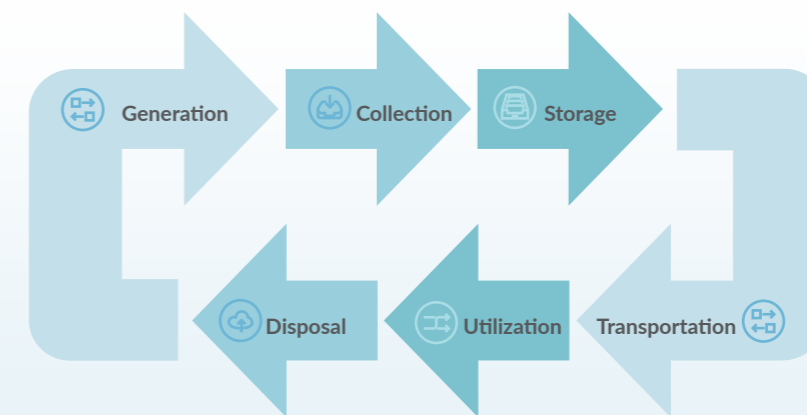
Rainwater and sewage are separated within the factory area, and a wastewater online monitoring station is set up at the total discharge outlet of the factory area, equipped with automatic monitoring equipment to ensure the discharge of water pollutants meets standards.

The Li County Base

Domestic wastewater is discharged into the sewage treatment plant by the sewage network of the park. Formulate operating procedures for wastewater treatment, standardize sewage facilities, regularly monitor water treatment and operation.

Waste Management

For industrial solid waste, the Company has established the responsibility system for pollution prevention and control of the whole process of industrial solid waste generation, collection, storage, transportation, utilization and disposal, set up the industrial solid waste management ledger, faithfully recording the type, quantity, flow, storage, utilization and disposal of industrial solid waste, realizing the traceability and accessibility of industrial solid waste, and taken measures to prevent and control industrial solid waste from polluting the environment, to reduce industrial solid waste generation and promote comprehensive utilization.



For hazardous waste, the Company entrusts qualified transportation units and disposal units for transportation and disposal. Hazardous waste is collected and stored according to the characteristics and the containers and packaging of hazardous waste as well as the collection, storage, transportation and hazardous waste disposal facilities and sites are set up with hazardous waste identification markings so as to improve the overall level of hazardous waste management.

The Tianjin Base

Attach importance to anti-dispersion, anti-erosion and anti-leakage, collect household wastes by classification, and recycle waste paper, waste metal, waste glass, waste plastic and other materials. Establish the hazardous waste management plan, unify the collection of hazardous waste, properly store and hand over to qualified units for treatment to ensure that hazardous waste is harmlessly disposed of and to protect environmental safety.

The Hengshui Base

The disposal of hazardous waste, the centralized collection and treatment of general industrial solid waste, are commissioned to sign the disposal or comprehensive utilization agreement with qualified units in accordance with the law, for disposal or recycling.

The Li County Base

The base adopts advanced production processes and equipment to reduce the amount of industrial solid waste generated and to reduce the hazardousness of industrial solid waste. Waste activated carbon, waste oil, etc. is handed over to qualified units for unified treatment. Hazardous wastes, general industrial solid wastes and domestic wastes were all properly disposed of, and the treatment and disposal rate reached 100%.

Social Section

Putting People First,
Contributing to Harmonious Society





Based on Quality Service

R&D Innovation

Yingli Solar's R&D projects follow the IEC 16949 and ISO 9001 standards from preliminary research, project initiation, product design, sampling, trial production, stage validation to project acceptance, and product promotion. A series of systems have been formulated, including the Advanced Product Quality Planning (APQP) Control Procedure, Design and Development Control Procedure, and Yingli Solar R&D Project Management Measures. The Company has always regarded independent innovation as the fundamental means to enhance its core competitiveness, promoting industry progress through R&D of advanced technologies.



In 2023, there were 13 new product development projects, including the industrial application of TOPCon cells with a conversion efficiency of 25.2%, the design and development of lightweight double-glass modules, and the development and research project of marine modules.

The Company filed 159 patent applications in 2023, with 92 granted. As of the end of 2023, the cumulative number of patented grants reached 140.



Case: Yingli Solar Attending the Ceremony for the 13th China International Patent Fair

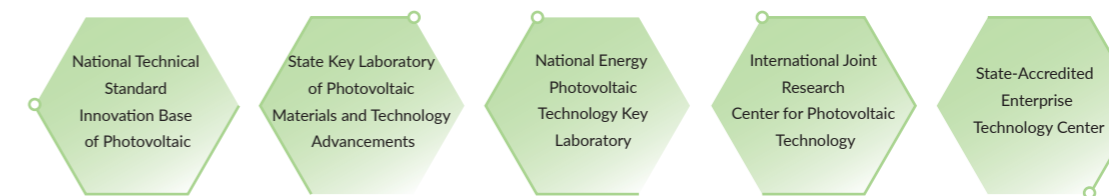


From October 14 to 16, the Ceremony for the 13th China International Patent Fair was held at the Dalian World Expo Center. Yingli Solar presented its PANDA 3.0 PRO module products at this exhibition. Yingli Solar's invention patent "Solar Cell Heat Treatment Process" won the Excellence Award at the 22nd China Patent Awards.

Technology-related Honors and Awards

- Won two silver medals in the final of the Hebei Province Innovation Method Competition..**
In March 2022, the Company won two silver awards in the final of the Innovation Method Competition in Hebei Province.
- Hebei Province Science and Technology Progress Second Prize**
In November 2023, the projects of Research and Industrialization of High-Reliability Ion Beam Graphical Precision Doping Solar Cell Components Technology" and Technological Research and Industrial Application of Photovoltaic Cell Cutting Loss Passivation Repair" won the second prize of Hebei Province Science and Technology Progress Award.
- Third Prize of Hebei Province Technology Invention Award**
In November 2023, the project of Research on Key Technologies for High Power Generation Photovoltaic Module Reliability Testing and Standard Formulation" won the third prize of Hebei Province Technology Invention Award.
- Two silver medals and one bronze medal in the final of Hebei Province Innovation Method Competition**
In November 2023, the Company won two silver awards and one bronze award in the final of the Innovation Method Competition in Hebei Province.

Technology Innovation Platform



Recognition from UL witness free testing (the U.S.), CNAS, and China General Certification's Witnessing Laboratory



Standard Setting

The Company has hosted and participated in the drafting of 118 domestic and international standards.

The first domestic double-sided photovoltaic power generation standard

Filling the gap in the testing standards for double-sided power generation components in China, opening up the promotion and popularization of "double-glass + double-sided power generation" technology, and laying a solid theoretical foundation.

The industry's first clean production evaluation index system

Guiding photovoltaic cell enterprises to promote clean production in depth, improve energy conservation, emission reduction, and pollution prevention levels, and promote the sustainable development and environmental friendliness of the photovoltaic cell industry.

The first national technical standard innovation base in the photovoltaic field

Hebei Solar Photovoltaic Standardization Technical Committee as the undertaking unit

SEMI International Standards Outstanding Contribution Award

Advanced Unit in Enterprise Standardization

Advanced Enterprise in Standardization

Outstanding Contribution Enterprise

In 2023, the Company edited and participated in the formulation of 9 standards, including 4 SEMI international industry standards and 5 group standards. The Company has edited and participated in the formulation of a total of 13 standards, including 4 SEMI international industry standards and 9 group standards.

9 standards edited and participated

4 SEMI international industry standards

5 group standards

13 standards edited and participated in total

4 SEMI international industry standards in total

9 group standards in total



Case: Yingli Solar was invited to participate in the World Standards Day publicity activities in Baoding in 2023



On the morning of October 14, 2023, the 2023 World Standards Day publicity activities featuring "Standards Illuminate the Future" kicked off in Baoding City. As an outstanding enterprise in the standardization of the photovoltaic field in Baoding City and the undertaking unit of the national technical standard innovation base, the Company was invited to participate in this event.



Case: The photovoltaic innovation base was invited to participate in the China Photovoltaic Industry Association Standardization Technical Committee



On October 27, the Battery Working Group of the China Photovoltaic Industry Association Standardization Technical Committee held its second working meeting in Zhoushan City, Zhejiang Province in 2023.



Industry Exchange and Cooperation

The Company actively engages in industry exchanges and learning, strives to establish extensive and close cooperation with industry organizations, partners, universities, and other stakeholders, promotes the sharing of multiple resources and complementary advantages, and achieves scientific growth of the enterprise.



Case: School-Enterprise Exchange Promotes Development - Hebei University of Technology Visits Yingli Solar



On October 25, Professor Chen Haiyong, Vice Dean of the School of Artificial Intelligence and Data Science, and Professor Liu Kun led a delegation from Hebei University of Technology to visit the Company for exchange.



On September 13, Professor Liu Hong and a team of five from the MBA Case Development Center of Hebei University of Technology visited the Company to conduct research on the Company's practices in green and smart transformation.

Intellectual Property Protection

The Company issued the "Yingli Energy Development Co., Ltd. Patent Management Measures", which clearly defined the organization and responsibilities of innovation management, registration and protection requirements, patent transformation and introduction processes and requirements, appraisal and evaluation, as well as assessment and reward-penalty requirements, forming a comprehensive intellectual property management system.

Intellectual Property Management System Certification

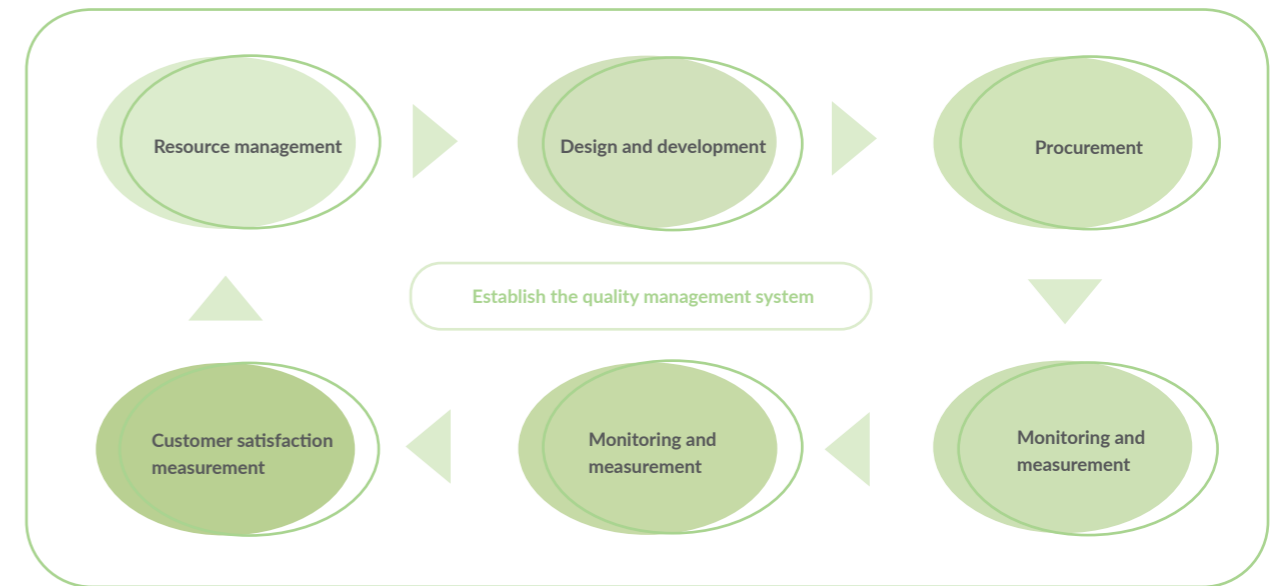
In June 2023, the Company obtained the "Intellectual Property Management System Certification" through intellectual property management system certification.

National Intellectual Property Advantage Enterprise

In November 2023, the Company was awarded the title of "National Intellectual Property Advantage Enterprise".

Product Management System

Yingli Solar has established the quality management system in accordance with the requirements of ISO 9001:2015 standards, covering all aspects of the production process, including resource management, design and development, procurement, monitoring and measurement, non-conformity control, and customer satisfaction measurement.



The quality management system of the Company is divided into four levels:

<p>Quality manual</p>	<p>Designed to determine the quality policy and goals of the Company, delineate the responsibilities and authorities of each functional department and business processes of the management system</p>
<p>Procedure documents</p>	<p>Designed to elaborate the specific work flow required to carry out various business activities</p>
	<p>Process product questionnaires, technical standards, inspection specifications, operating procedures, work instructions, special management systems, etc.</p>
	<p>Records and forms related to product quality</p>



In 2023, the product qualification rate at Yingli Solar's headquarters reached 99.98%, further improved from the rate in 2022.

99.98%
Product qualification rate



Case: Summary of the "Quality Month" Activities in 2023



Yingli Solar focused on the theme of "Everyone Participates, Quality First, Production Safety, and Development Promotion" during the "Quality Month" activities. Through a series of events, the Company promoted quality culture, enhanced the awareness of quality among all employees, improved the level of quality management, and promoted the development of the Company's quality culture.

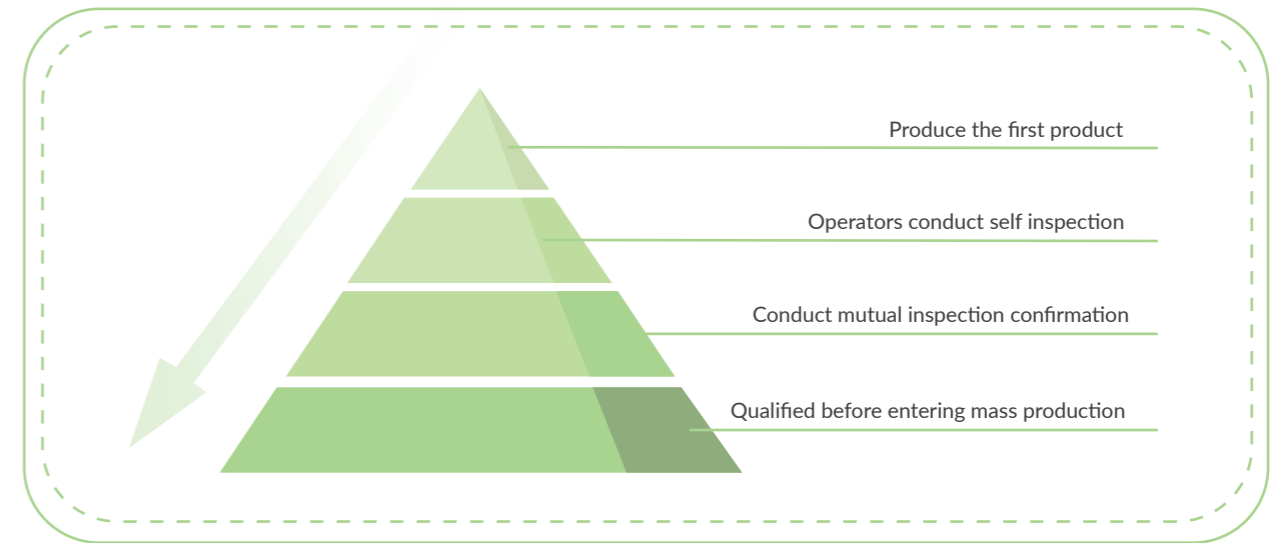
Product Labeling and Traceability

Product labeling aims to trace the formation process of product quality. Labels, nameplates, documents, records, seals, paint writing or other marks are used for product labeling based on specific conditions. Purchased materials should maintain the original markings of the materials (such as labels, nameplates, name on the packaging, model and specification markings, ex-factory test reports, etc.), and for products requiring quality certification documents, product qualification certificates, quality proofs (warranties), etc. must be attached as the product's label.

Incoming materials	Allowed to set aside special areas in the warehouse as "to be inspected" area, "qualified" area, "unqualified" area.
Products in production process	Marked with their corresponding production records and inspection records as product labels and "to be inspected", "qualified products", "unqualified products", "to be processed", "reworked products", "scrapped" and other inspection status labels.
Final products	Labels attached and anti-forgery are generally used for the labeling of final products, and inspection records as the final product "qualified" or "unqualified" label.
Ex-factory products	The final product label plus the qualification certificate is used as the label for the ex-factory products.

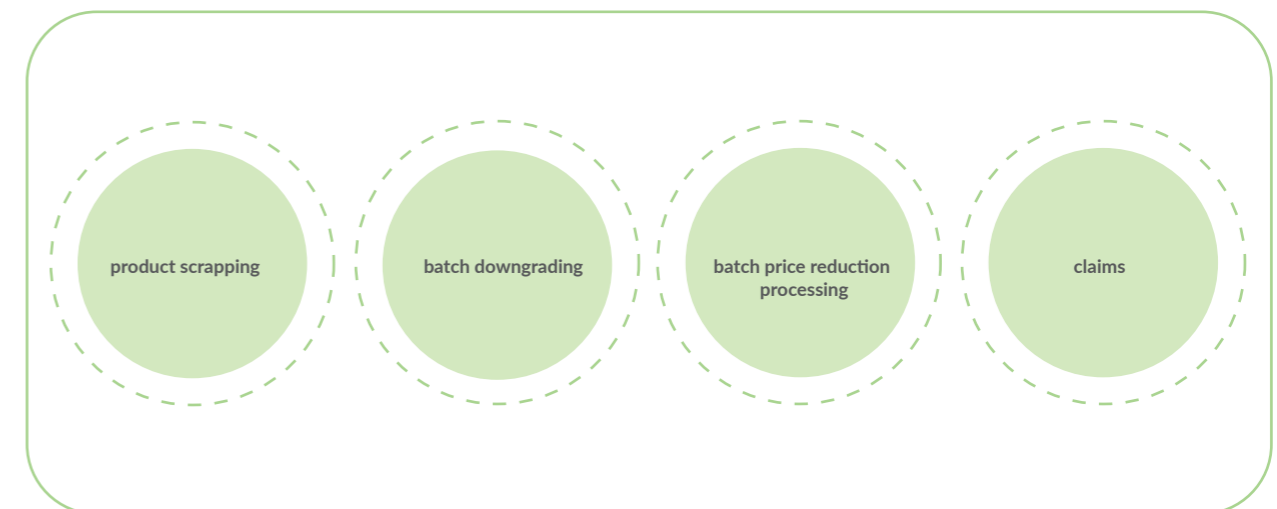
Production Process Monitoring

The operators of the key process should perform the "three presses and three checks" in accordance with the requirements of the Production Operation Guideline before the daily production and when production operation starts again after the change or adjustment of the production conditions. After the output of the first product, the operator shall firstly conduct self-inspection, and then notify the workshop team leader or workshop inspector to conduct mutual inspection and confirmation after passing the self-inspection. Mass production is allowed only after passing the inspections, and shall be recorded in accordance with the requirements of inspection specifications.



Product Quality Control

In case of product quality incidents such as product scrapping, batch downgrading, batch price reduction processing and claims, it is divided into five categories of general quality incidents, large quality incidents, serious quality incidents, major quality incidents and mega quality incidents according to the severity of one product loss caused by quality problems. The responsible personnel of the incident unit shall confirm, fill in the Quality Incident Report Form and report to the Quality Management Department of the Company within 24 hours, and the incident responsible unit shall promptly conduct investigations, carry out quality incident analysis and form an analysis and investigation report.





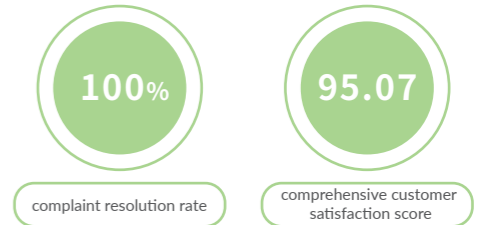
Unqualified Product Control

		Identification	Isolation	Determination/Communication	Audit/Review	Return to storage	Disposal
Raw materials	Incoming inspection non-conformance						
	In-service non-conformance						
	Inventory non-conformance						
	Finished product non-conformance resulting from identification	Traceability	Isolation	Reconfirmation of quality status			Processing and claims
Work-in-process	First piece inspection, spot inspection, patrol inspection, self-inspection, non-conformance after rework						
Semi-finished products	Self-inspection and sampling inspection non-conformance						
Finished products	Inspection, inventory, delivery, customer returns, etc.						

Customer Service and Satisfaction

Yingli Solar has established the Customer Satisfaction Measurement Control Procedures, providing the basis for improving the quality management system by collecting customer satisfaction information and measuring the performance of the quality management system.

In 2023, the Company received a total of 2 after-sales complaint cases, with a 100% complaint resolution rate and complete customer satisfaction achieved. The comprehensive customer satisfaction score for 2023 was 95.07, meeting the set target of 90% and further improved compared with 2022.



Customer Satisfaction Survey

Detailed customer information, including names, addresses, phone numbers, and contacts, was recorded in the "Customer Profile" to facilitate timely communication with customers, understand their needs, and ensure customer satisfaction.

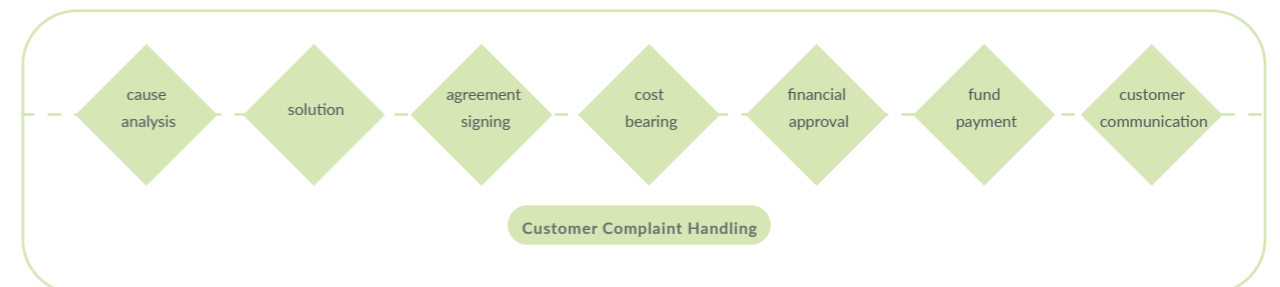
The Company regularly distributes the Customer Satisfaction Surveys to customers every year, investigates customer satisfaction from dimensions such as product quality, product price, product shipment, product packaging, sales consultation, product consultation, after-sales service, etc., conducts statistical analysis of the survey results, and combines the customer satisfaction information obtained from other channels to compile and summarize the Customer Satisfaction Survey Results and Analysis Report.



Customer Complaint Handling

Regarding general problems, the after-sales service team answers and records in detail for customers through face-to-face interviews, phone calls, faxes, emails, etc. Regarding customer complaint cases, the case manager identifies the whole processing process and related information of this complaint case by confirming the complaint code. The content of cause analysis, solution, agreement signing, cost bearing, financial approval, fund payment, customer communication, etc. shall be updated to the database timely to ensure that each step of decision is informed to the responsible personnel.

Solutions offered to customers include channels for rejection, return, repair, replacement, compensation, explanation, clarification, extended or additional quality assurance, long-term monitoring and technical service, and are supported by written materials.





Sustainable Supply Chain

Supply Chain Management

For the sake of continuous improvement of product quality, effective control of suppliers' delivery capability and material level, and control of procurement risks, Yingli Solar has established the Supplier Management Procedures to ensure the objectivity, fairness and science of supplier selection, evaluation and re-evaluation, effectively reducing supply chain risks and improving supply chain resilience.


Supplier Profile Creation


Adopting the Supplier Capability Questionnaire, obtaining business license, production license, mandatory safety certification, quality management system certification, product certification or evaluation report, domestic and international award certificates, etc., the Company has established the supplier's basic information profile and conducted preliminary qualification screening of alternative suppliers.





Supplier Qualification Review

New material suppliers are required to produce trial batches in small quantities, and undertake three kinds of supplier reviews after passing:

-  The qualification and certification review through the Supplier Capability Questionnaire for the record;

-  Market research through the network and other means, fill out the Supplier Capability Evaluation Form for evaluation;

-  The supplier factory inspection, for its quality management status, production equipment, delivery capacity, testing means, production site management, quality system management, environmental system management, occupational health and safety system management, social responsibility and other circumstances for on-site inspection, and the preparation of the Factory Inspection Report.

-  Suppliers provided business licenses, occupational health certifications, and other certificates to demonstrate compliance with relevant standards.

Supplier Performance Evaluation

The Bidding and Purchasing Department of the Company regularly conducts on-site inspection and evaluation of suppliers, investigates and prepares the Factory Inspection Report on suppliers' enterprise culture, technical capability, equipment condition, quality control, financial and information condition, production control capability, enterprise credit, safety and illegal crimes. Annual supplier evaluation meetings are held regularly every year to evaluate suppliers' delivery quantity, product quality, price, service quality and the Factory Inspection Report in a year, and to prepare the Qualified Suppliers Annual Re-evaluation Form and the Qualified Suppliers Annual Evaluation Form.

Enterprise culture	Technical capability	Equipment condition
Quality control	Financial and information condition	Production control capability
Enterprise credit	Safety	Illegal crimes

Tiered Supplier Control

Levels	90 and above	80 - 89	70 - 79	60 - 69
Measures Taken				
Direction of Relationship Development	Strengthen cooperation, mutual support, strategic partnerships	Step up communication and exchange, and cultivate strategic partnerships	Notify suppliers to rectify and improve	Remove from the list of qualified suppliers
Priority Ranking	Priority is given to increasing supplier supply shares, new product development, payments, etc.	Increase procurement volume when price discounts exceed 5%.	Increase procurement volume when price discounts exceed 10% and quality is superior.	None
Procurement Volume	Increase	Determined according to actual needs	Determined according to actual production needs	Stop procurement

Supplier Cancellation Standards

Supplier raw material technical standards that do not meet the Company's current production requirements will have their qualified supplier status revoked if, after technical exchange review, they still cannot be accepted. Non-compliant suppliers will be suspended from transactions, and may not be reinstated for a period of six months from the date of suspension. If reinstatement is required, they must undergo a new supplier development process according to the requirements.

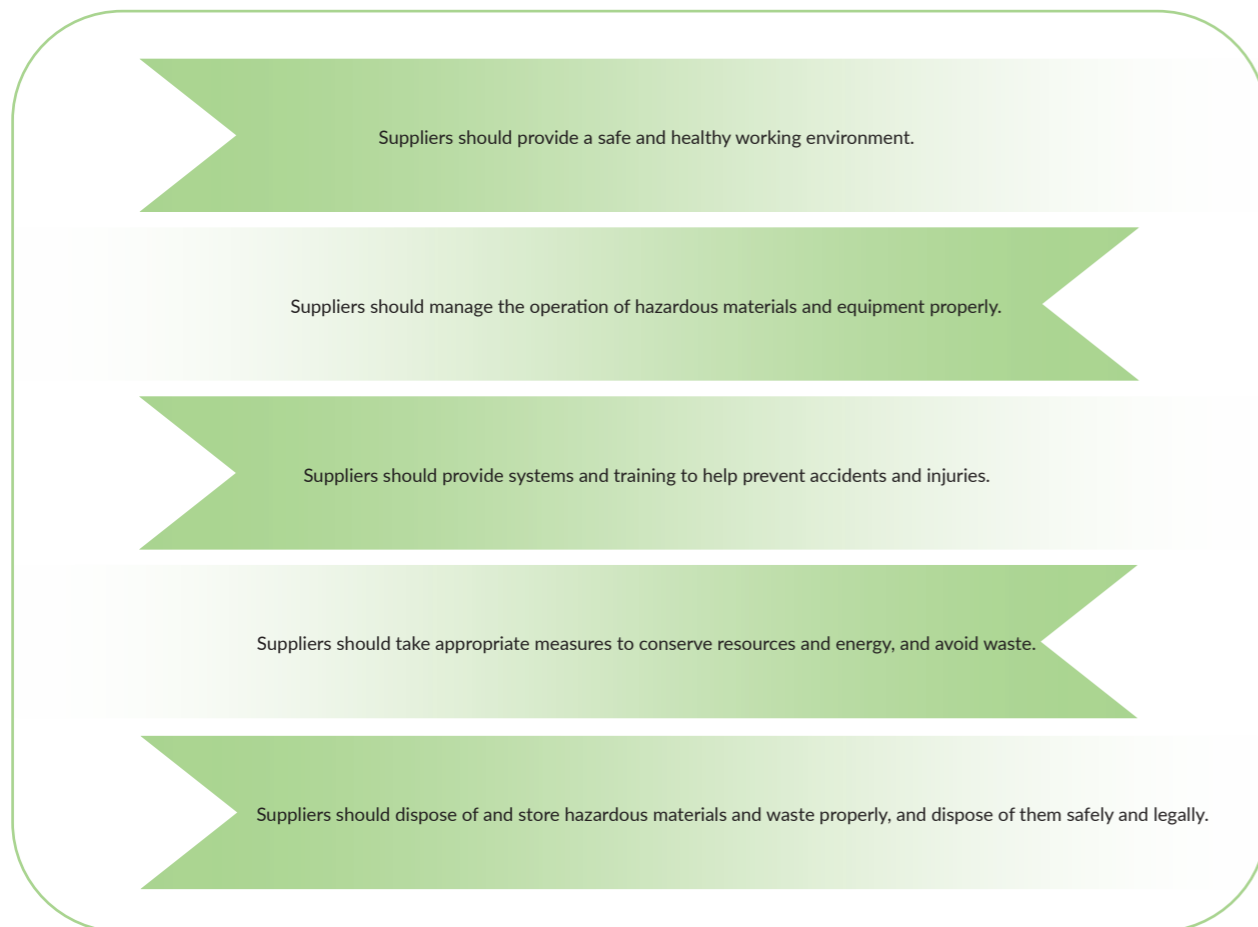


Supplier ESG Management

Supplier Code of Conduct

The Company has established a Supplier Code of Conduct to clarify the behavioral requirements for suppliers in terms of compliance with laws, integrity and self-discipline, labour rights, environment, health, and safety. Suppliers are required to comply with all applicable laws and regulations in their operating countries/regions, and are prohibited from violating local regulations regarding minimum working age and compulsory education age.

In terms of environment, health, and safety, suppliers are required to continuously improve their environmental health and safety performance.



Supplier SA8000 Commitment

The Company has developed the SA8000 Management Manual based on the SA8000 Social Responsibility international standard and Chinese labor laws and regulations, combined with industry growth trends and the features of the Company's strategy. Some suppliers have committed to comply with SA8000. Including: compliance with laws and local regulations, prohibition of the use of forced labor, prohibition of child labor, prohibition of harassment or abuse of workers, compliance with compensation and benefits regulations, prohibition of discrimination, compliance with health and safety standards, protection of freedom of association and collective bargaining, and establishment of a sound management system to ensure full compliance with the SA8000 standard.

The Company requires relevant suppliers to declare to Yingli Solar that they do not use conflict minerals. Suppliers are required to sign a pledge of integrity.

Safeguarding Rights and Interests of Employees

Employment Management

Based on SA8000:2014 standard, Yingli Solar has prepared the Social Responsibility Management Manual as the fundamental document for the Company to fulfill its social responsibility, maintain positive labor-management relations and protect the basic rights and interests of employees.



Indicator	Unit	2023
Total number of employees	person	294
By contract type	Full-time employees	294
	Part-time employees	0
By age group	30 and below	23.86
	Above 30 to 50	73.60
	Over 50	2.54
By education level	Ph.D.	1.36
	Master's degree	5.10
	Bachelor's degree and below	93.54
Number of new employees	Number of newly hired female employees	28
	Number of newly hired male employees	68
	Number of newly hired fresh graduate employees	33
	Number of newly hired social recruitment employees	63



Prohibition of Child Labor

The Company strictly implements the State Council Regulations on Prohibition of Child Labor, absolutely prohibits the use of child labor or supports the use of child labor, firmly opposes any use of child labor, and does not cooperate with suppliers or subcontractors who intentionally use child labor. Effective methods shall be adopted to identify the authentic age of employees upon onboarding, to ensure that employees are at least 16 years old at the time, and to prevent mistaken recruitment of child labor due to false age documentation of employees. As required by national regulations, it shall arrange for pre-employment and regular annual medical examinations, and shall not arrange for underage workers to perform any work that may be unsafe or dangerous to their physical or mental health and development.

Arrange for pre-employment and regular annual medical examinations

Shall not arrange for underage workers to perform any work that may be unsafe or dangerous to their physical or mental health and development

Prohibition of Discrimination

The Company prohibits and does not support any form of discrimination, insisting on the principles of fairness and equality in the formulation and implementation of policies regarding hiring, wages, benefits, training, promotion, termination or retirement, without discrimination on the basis of race, national or social origin, social class, ancestry, religion, physical disability, gender, sexual orientation, family responsibilities, marital status, union membership, political views, age or otherwise. It is prohibited to interfere with the exercise of the right of employees to observe their beliefs and customs or to satisfy the needs related to race, national or social origin, social class, ancestry, religion, disability, gender, sexual orientation, family responsibilities, marital status, union membership, political views or any other circumstances that may give rise to discrimination. Any threatening, abusive, exploitative or coercive sexual assault is prohibited; any form of discrimination against female workers, especially pregnant workers, is prohibited. The Company has established complaint and grievance mechanisms, and any discrimination found can be directly complained to the management.

Compensation and Benefit Policy

The salaries of employees in the Company are in compliance with the Labor Law and follow the principle of labor distribution, "equal pay for equal work, more pay for more work, no pay for no work". The Company provides employees with corresponding benefits and allowances, including basic social benefits such as pension insurance, medical insurance, unemployment insurance, work injury insurance, maternity insurance, housing fund, paid vacations such as annual leave, compensatory leave, wedding leave, full attendance bonus, job allowance, night (mid) shift allowance, transportation allowance and other allowances. Meanwhile, the Company takes employees' needs as the starting point and carries out various employee care activities to fully motivate employees' passion, enrich their spare time and cultural life, and enhance their sense of belonging and happiness.

Prohibition of Forced and Compulsory Labor

The Company respects employees' freedom rights, including freedom of employment, freedom to quit, freedom to work overtime and freedom of movement, etc.; prohibits the use of any form of forced labor; prohibits the use of any actions that restrict labor freedom. Employees have the right to leave the workplace after completing standard working hours; employees are free to terminate their employment contracts after giving reasonable notice to the Company; employment contracts and labor discipline drawn up by the Company shall be agreed through consultation with workers' representatives and submitted to the local labor department for review and filing. The Company rejects and does not support the acquisition of labor through human trafficking.





Case: "New Youth, New Power" New Employee Team Building and Forum Event



To familiarize new employees with the Company, understand the team, and enhance teamwork and employee sense of belonging, the Human Resources Department organized a themed event titled "New Youth, New Power" Yingli Solar New Employee Team Building and Forum Event.



Case: Setting Sail for Dreams, a Promising Future | Successful Conduct of New Graduate Employee Onboarding Ceremony



Group photo taken after the mentorship ceremony.

Mentors distributed work uniforms, ID badges, and other items to trainees.

On the morning of July 4, the "2023 New Graduate Employee Onboarding and Mentorship Ceremony" was held, with over 30 new graduate employees in attendance.

In-service Employee Training

Each department forms annual training needs according to the annual target and key work, combined with the current situation of employees' ability, and formulates the Annual Training Plan. Training for in-service employees is divided into internal training and external training by training resources. Internal training refers to the training and learning activities conducted with internal resources; external training refers to the training, study tours, learning and exchange activities conducted with the help of external resources.

In 2023, Yingli Solar headquarters provided training to 1,413 participants, with a total training length of 4,420 hours. The training covered 95% male employees and female employees, with an average training duration of 13.27 hours for both male and female employees.



Employee Training & Development

Yingli Solar attaches great importance to the training and development of talents for a long time, and carries out employee training and talent management in multiple dimensions, such as new employees, professionals, backup talents and middle and senior managers, in various forms, including internal lectures, external training and practical exercises.

New Employee Onboarding Training

Company-level onboarding: Organized and implemented by the Human Resources Department before the new employees are assigned to the departments.

The company-level onboarding is mainly indoor lectures, covering courses such as company introduction, rules and regulations, professional skills, employee literacy, safety knowledge, etc. The assessment includes two aspects: paper examination and daily performance evaluation, forming the Comprehensive Assessment Form for New Employee Training, and new employees fill in the New Employee Training Effectiveness Questionnaire to make comprehensive assessments of the training process.

Department-level onboarding: Organized and implemented by the departments after the assignment.

The department-level onboarding covers department responsibilities, job responsibilities, work procedures, business knowledge and skills, etc. Each department organizes own assessment depending on the actual work content, and the assessment results serve as the basis for new employee's regularization and are reported to the Human Resources Department for the record.



Case: From Excellence to Outstanding Training Program



Training sessions

At 9:30 a.m. on June 2, the first session of the "Reboot for Greater Brilliance" Cadre Training Camp, titled "From Excellence to Excellence: In-depth Communication Practices and Responsibility-based Empowerment Techniques Enhancement," commenced. The two-day offline training covered the topics of communication and empowerment.



At 8:30 a.m. on August 11, the second session of the "Reboot for Greater Brilliance" Cadre Training Camp, titled "From Excellence to Excellence: Efficient Performance Team Building and Management," began. The two-day offline training covered topics such as goal management, planning, and team management.

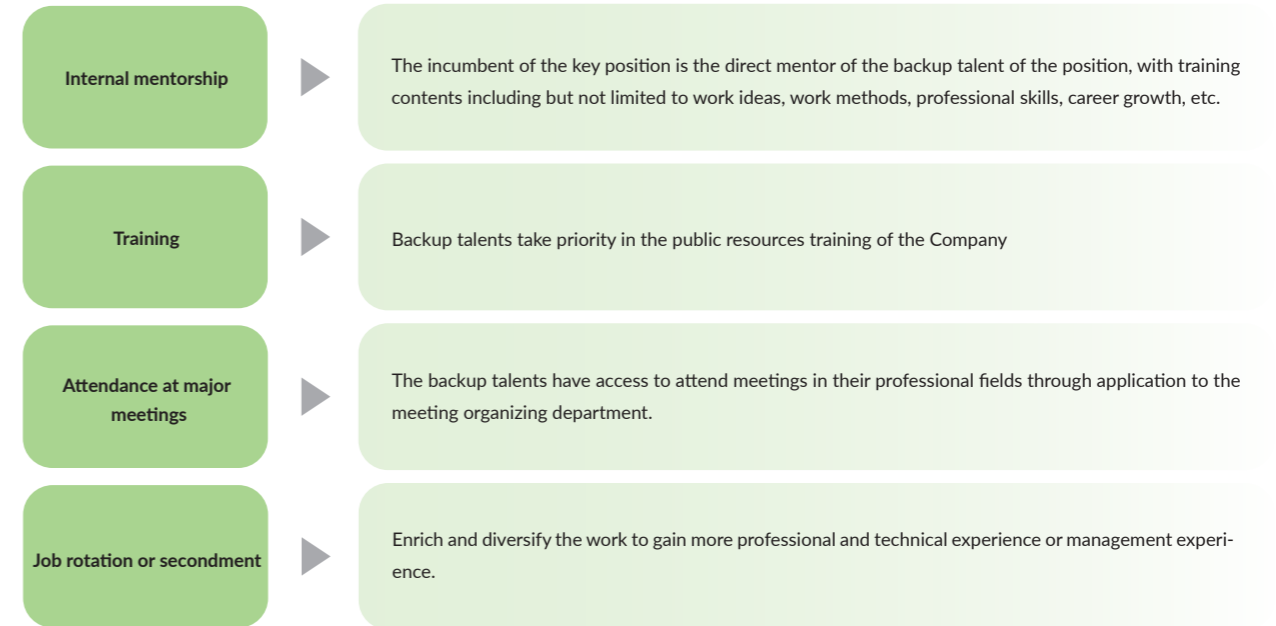


Trainees taking a group photo at Taihang Water Town.

From October 13 to 14, the third phase of the Company's "Reboot for Greater Brilliance" Cadre Training Camp, titled "From Excellence to Outstanding: Employee Development and Effective Incentive Practices," was conducted, followed by a closing ceremony on October 15.

Backup Talent Management

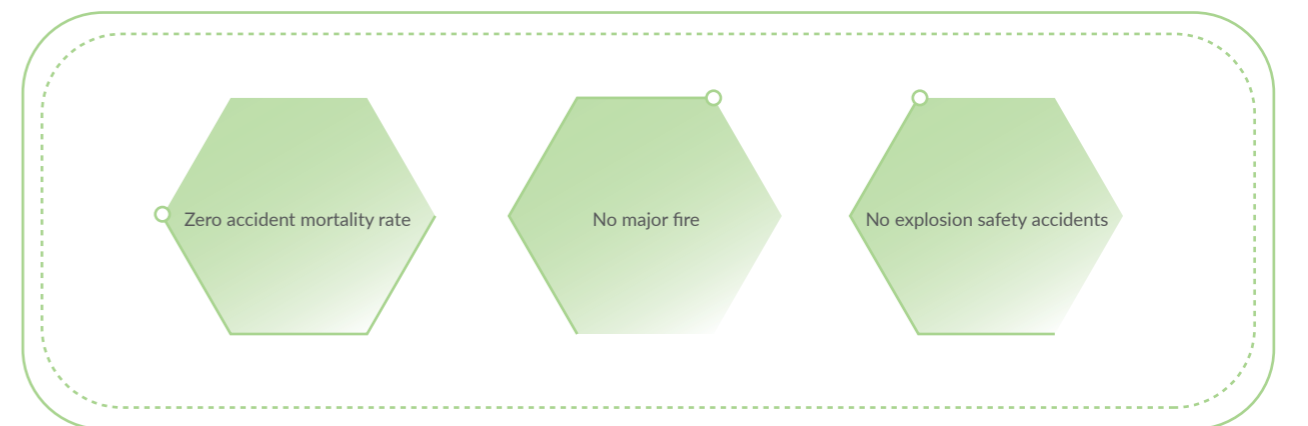
The selection of backup talents follows the principles of openness, justice, fairness, competition and merit, and is based on proper political thinking, business performance and actual contribution. The training of backup talents is mainly carried out through four channels:



Occupational Health and Safety

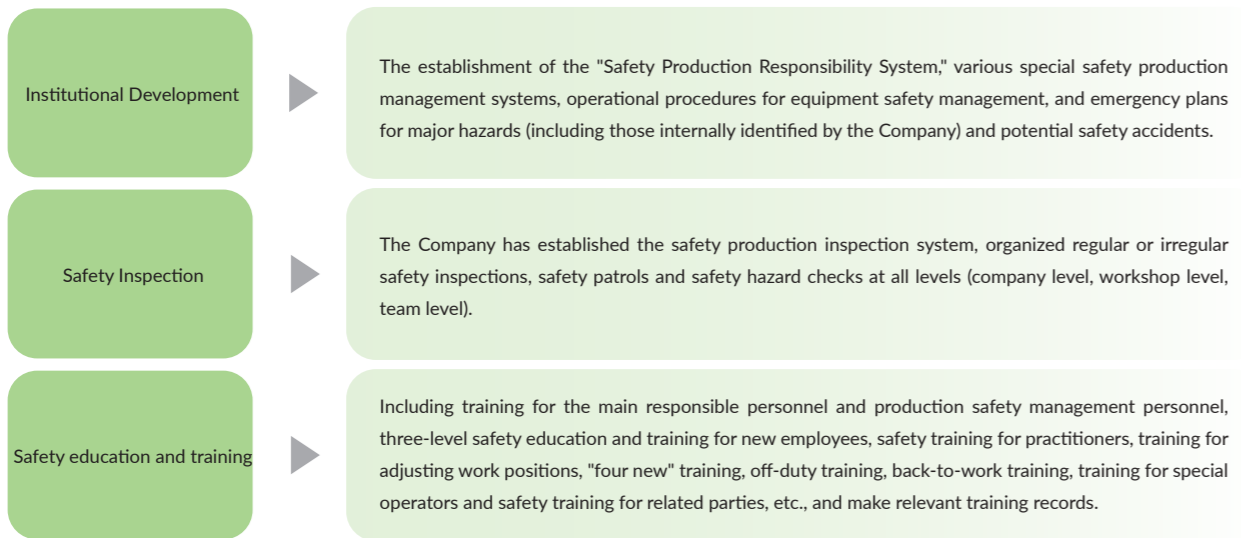
The Company has established safety management institutions in accordance with the requirements of relevant national regulations, equipped with professional safety management personnel, established safety management network and implemented various safety responsibilities. The Company has developed various safety management systems and operational procedures, conducted safety production supervision within the Company, and supervised and inspected the implementation of various departments. Safety signs are prominently posted in the Company.

The Company's occupational health and safety management goal is to achieve a zero accident mortality rate, with no major fire or explosion safety incidents.





Construction of Safety Production Management System



Safety Production Management Requirements

The Company has formulated the Safety Production Checklist and various special safety checklists (including electrical, firefighting, hazardous chemicals, etc.) according to the actual situation, established the Safety Hazard Investigation, Rectification and Treatment Ledger and the Hazard Identification Sheet and Major Hazard List, and conduct safety inspections. The Company has also established the safety education and training management system, established the Safety Education and Training File for employees, and carried out safety education and training, which covers: training for the main responsible personnel and production safety management personnel, three-level safety education and training for new employees, safety training for practitioners, training for adjusting work positions, "four new" training, off-duty training, back-to-work training, training for special operators and safety training for related parties, etc., and make relevant training records.

Fire Safety Management	Establishment of fire safety organizational structure and implementation of responsibility system. The headquarters and the bases are equipped with fire facilities, safety exits, safety passages, etc.; supervision and inspection of the implementation of various departments, regular fire safety training, and drills.
Special Operations and Special Equipment Management	Special operations are subject to a work permit system, and personnel must be certified and undergo training, re-evaluation, and certificate renewal as required. Periodic inspection and maintenance of special equipment in accordance with safety technical specifications, with records kept.
Hazardous Chemical Management	Review the qualifications of suppliers and manufacturers of hazardous chemicals and ask for safety technical instructions and safety labels. The transportation, storage, collection, use and waste disposal of chemicals shall comply with national laws and regulations.
Related Party Safety and Environmental Management	The Company pushes for various suppliers, transporters, engineering contractors, waste handlers, and other relevant parties to comply with the Company's EHS management requirements when conducting business, and supervises their behavior.

Occupational Health Management

The Company has established a system for the prevention and treatment of occupational diseases, based on Yingli Solar's safety production management requirements. Each base has formulated documents such as the Occupational Disease Hazard Prevention and Control Responsibility System, Occupational Hazard Protection Facility Maintenance and Repair System, Regular Monitoring and Evaluation Management System for Occupational Hazards, Occupational Hazard Accident Handling and Reporting System, Workers' Occupational Health Monitoring and Archive Management System, Occupational Health and Safety, Labor Protection Control Procedures, and Environmental and Occupational Health and Safety Monitoring and Control Procedures, strengthening the identification and monitoring of occupational disease hazards, prevention and treatment of occupational diseases, inspections, and accident handling.

Occupational health and safety training before entering the Company	Inform employees of the various occupational hazard factors that may lead to the occurrence of occupational diseases and their consequences, necessary occupational hazard protection measures and related compensation.
Provide health working environment	In the workplace, prominent signs and explanations are set up to display occupational health and safety regulations, operating procedures, emergency response measures for occupational hazards, and results of occupational hazard factor detection.
Establish the management system for labor protection equipment	Issue labor protection equipment to employees in accordance with the relevant regulations, improve the configuration and obsolescence standards of labor protection equipment, and guide workers to properly use occupational disease protective equipment and personal protective equipment.
Physical examination for employees in occupational disease hazard positions	Regular training is conducted before and during employment to disseminate occupational health knowledge, ensure compliance with relevant laws and regulations, and improve the work flow of employee medical examinations. Employee occupational health monitoring files are established.

Employee Communication and Activities

The Company respects and protects employees' rights to free association and collective bargaining, and protects employees' rights to freely form and join the trade union. The Company has established the system of regular dialogue with employee representatives, arranging communication at least once every six months, and holding temporary meetings when necessary.

Yingli Solar encourages employees to participate in community construction, cares about community development and actively gives back to the society by organizing employee volunteer activities. In 2023, the Company organized a total of 7 volunteer activities with 186 participants.





Governance Section

Effective Governance to Strengthen the
Foundation of Corporate Development

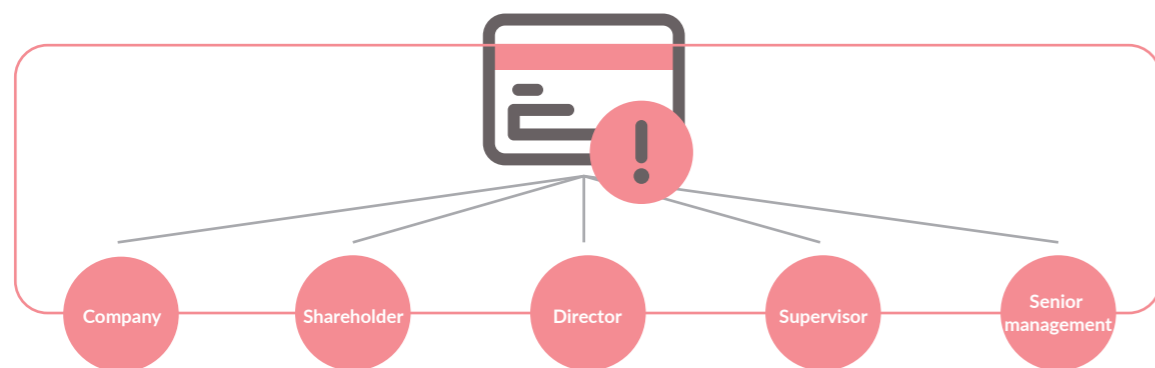




Improving Corporate Governance

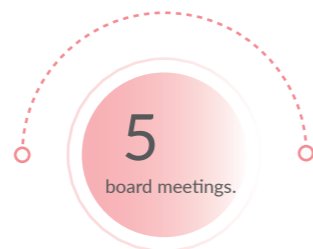
Governance Architecture

In order to protect the legitimate rights and interests of the Company, shareholders and creditors and standardize the organization and behavior of the Company, in accordance with the Company Law and relevant laws and regulations, the Company has formulated the Articles of Association of Yingli Energy Development Co., Ltd. as a document for legal restraint of the Company, shareholders, directors, supervisors and senior management.



Shareholders' Meeting	▶ The Shareholders' Meeting is the Company's decision-making body responsible for determining business policies, investment plans, personnel matters of directors and supervisors, and reviewing and approving board reports, supervisor reports, and company-related schemes.
The Board of Directors	▶ The Board of Directors convenes the shareholders' meeting, reports to it, implements its resolutions, formulates company-related schemes, and appoints or dismisses senior executives. The Board of Directors consists of five directors, including one female director.
The Supervisor Board	▶ The Supervisor Board inspects the Company's finances and supervises the behavior of directors and senior executives. The Supervisor Board consists of three supervisors, including one female supervisor and one employee representative supervisor.

In 2023, the Company held 2 shareholder meetings and 5 board meetings.



Strengthening Compliance and Risk Control

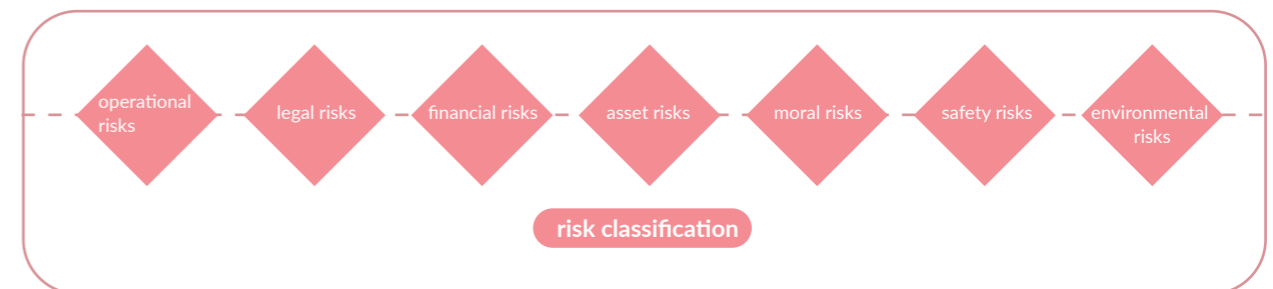
Internal Control System

In order to improve the internal control management level, form the normal standardized management, and improve risk prevention capabilities, Yingli Solar has compiled the Internal Control Management Manual as the basis for establishing, implementing, evaluating and verifying internal control of the Company. The organizational structure of the Company's internal control management system implements three-level management:

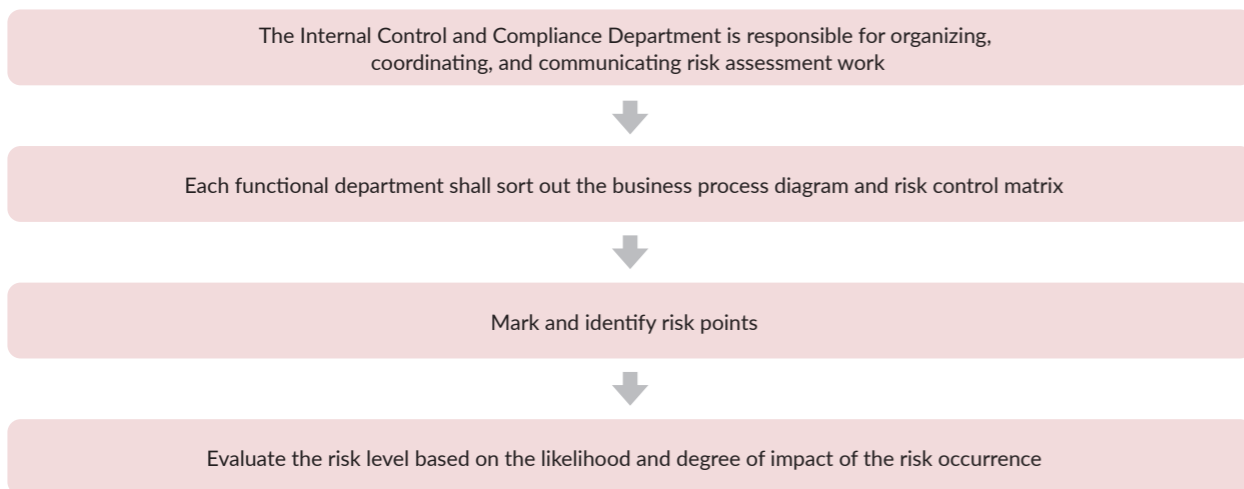
Decision-making agency	Internal Control Management Committee, as the resolution agency of internal control management, directed by the General Manager of the Company, responsible for the decision of major matters related to internal control of the Company
Supervision and management agency	Internal Control and Compliance Department is responsible department for the internal control management of the Company and the supervision and evaluation of the effectiveness and compliance of the internal control system.
Executive agency	Each functional department of the Company specifically implements the policies and systems of internal control management and reports the implementation and operation of the internal control system.

Risk Identification

Combining the internal control objectives, actual business processes and internal and external risk factors, the Company classifies risks into seven categories: operational risks, legal risks, financial risks, asset risks, moral risks, safety risks and environmental risks.

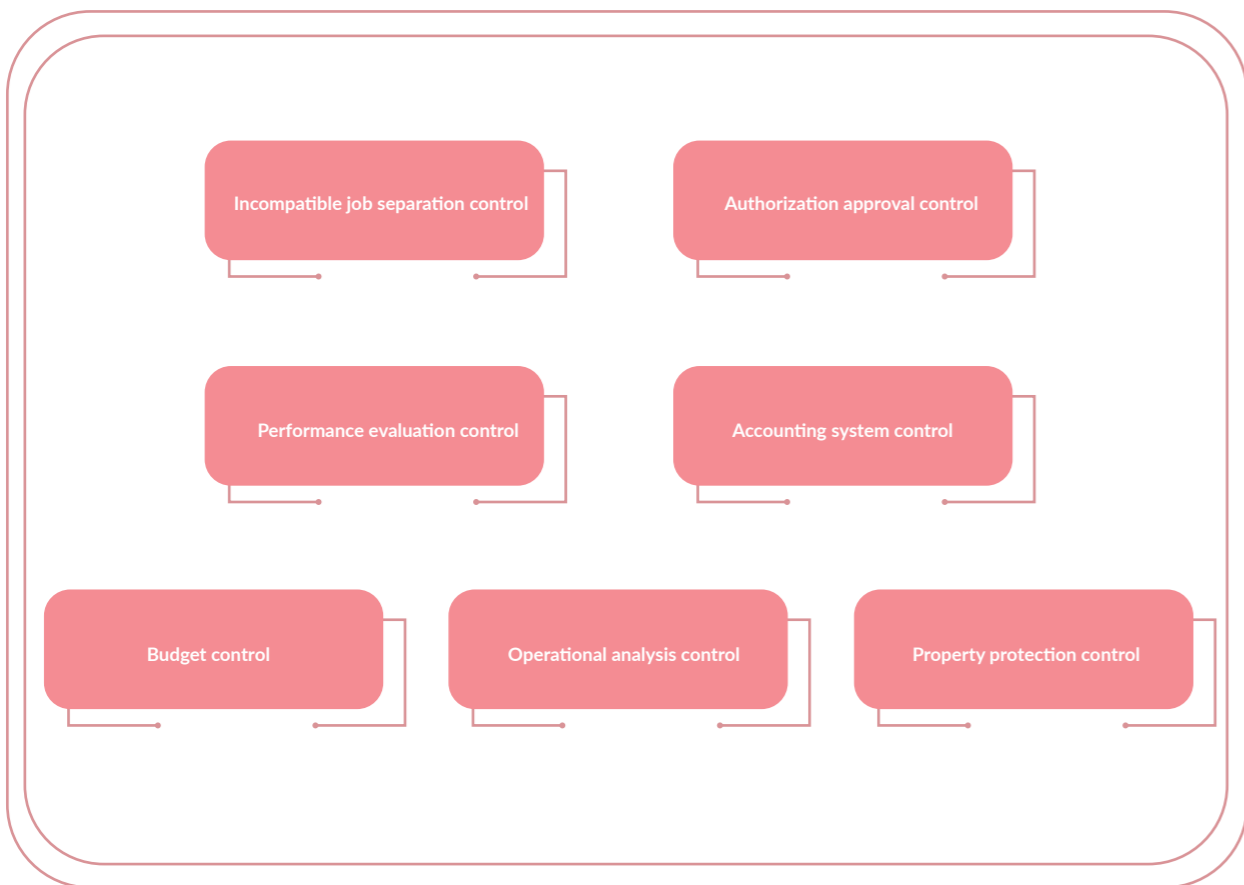


The Company conducts risk identification once a year, and the Internal Control and Compliance Department is responsible for the organization, coordination and communication of risk assessment. Each functional department sorts out the business process diagram and risk control matrix, marks and identifies risk points, and evaluates the risk level according to the possibility of risk occurrence and the degree of impact. The Company adopts the qualitative analysis method to rate the identified risks according to the likelihood of occurrence of risks and the degree of impact, grading them into three levels: high, medium and low. The Company focuses on the risk control of high-risk process nodes according to the rating results.



Risk Control

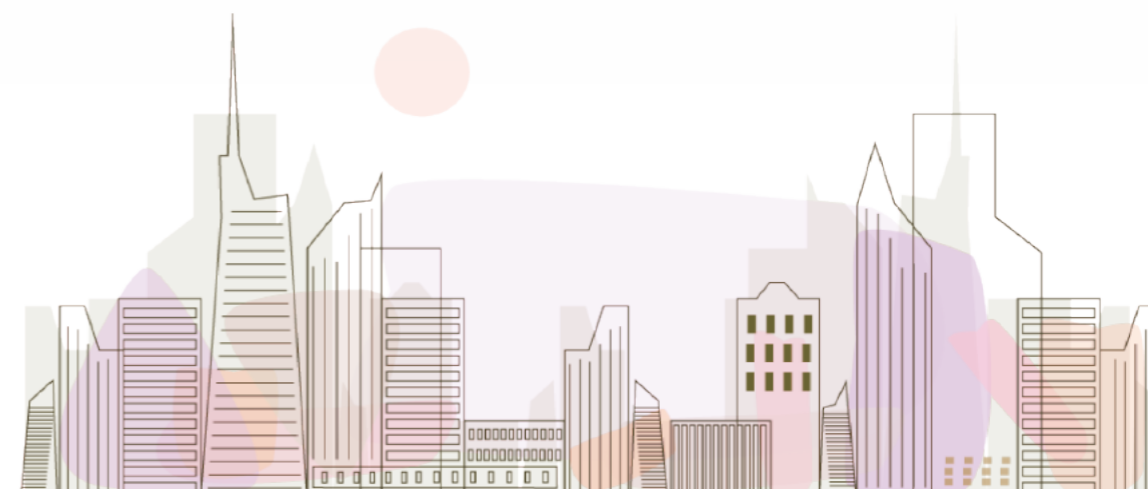
Based on the results of risk assessment, the Company uses corresponding control measures to control risks within a tolerable range through a combination of manual control and automatic control, preventive control and discovery control. Specific forms include: incompatible separation of duties control, authorization approval control, budget control, operation analysis control, performance appraisal control, accounting system control and property protection control.



Case: Internal Control Management Training at Yingli Energy Development Co., Ltd.



In order to enhance the learning of basic internal control knowledge across various departments of the Company, improve the compliance of company management, and enhance overall work efficiency, the Internal Control and Compliance Department invited the Internal Control Management Project Team of Sci-Cur International to conduct training.





Upholding Integrity in Business Practices

In order to better ensure the compliance operation and promote the construction of integrity and anti-corruption work, the Company has formulated the Discipline Inspection and Supervision Management System (Trial), with the Internal Control and Compliance Department as the main department responsible for performing disciplinary inspection and administrative supervision functions, through attending meetings, carrying out investigation and research, carrying out special supervision and inspection, etc., to assist the Company to build clean governance and strengthen the construction of clean culture.

Set up various reporting approaches such as reporting mailboxes, reporting telephones, and online reports.

Regularly investigate and handle cases, and keep reporting channels open. The scope of reporting mainly includes violations of law and discipline such as internal corruption and bribery, malpractice, abuse of power for personal gain, abuse of power, embezzlement of position, etc., or dereliction of duty that cause greater losses to the Company's reputation and economy, as well as problems in the Company's atmosphere.

Establish a supervision mechanism for major matters

For significant incidents, emergencies, major disciplinary violations, and cases of illegal activities, as well as complaints, reports, accusations, appeals, and petitions received by the Internal Control and Compliance Department, timely reporting to the Company's Internal Control and Compliance Department is required.

Establish rules for honest professional conduct

Including 4 violations of decision-making procedures and regulations, 6 violations of personnel management regulations, 8 violations of financial management regulations, 9 violations of material procurement management regulations, 6 violations of contract management regulations, 6 violations of marketing management regulations, and 5 violations of material consumption management regulations.



Case: Anti-Corruption and Integrity Awareness Education Activities



Outlook

In 2023, actively addressing climate change and adhering to the path of green development that promotes harmonious coexistence between humans and nature has become a global consensus. In the process of realization of the global net zero goal, the photovoltaic industry will take on the irreplaceable role. From the initial renewable energy saving, to the intelligent, digital scale application, and now the continuous breakthrough of the intelligent energy industry, the construction of green supply chain system, the photovoltaic industry is embracing new development and change.

Faced with new challenges and opportunities, Yingli Solar will uphold its core values of "Trust, Delivery, Growth, and Sharing", actively fulfilling its social responsibilities to employees, customers, supply chains, and partners, among other stakeholders. It will leverage the critical role of the photovoltaic industry in addressing climate change, strengthen talent development to enhance employees' professional qualities and skills, sincerely serve customers, and strive to achieve the coordinated development of the enterprise with society and the environment, rallying love to give back to society.

Looking ahead, Yingli Solar will adhere to a path of high-quality development that is intelligent, green, safe, and efficient, promoting the transformation and upgrading from energy conservation to intelligence and green energy. It will advance energy security construction and high-quality development, facilitate the green transformation of energy, and build a modern new energy system.

Appendix 1: Key Performance Indicators

Environment:

Indicator	Unit	2023
Total water consumption	metric ton	14,283
Water consumption per person	metric ton/person	35.09
Water consumption per RMB 10,000 revenue	metric ton/RMB 10,000	0.0229
Consumption of outsourced electric power	ten thousand kWh	7,027
Consumption of photovoltaic power	ten thousand kWh	722
Gas consumption	m ³	67,858
GHG emissions (Scope 1 & 2)	tCO ₂ e	71,939
GHG emissions intensity (Scope 1 & 2)	tCO ₂ e/MW	15.32

Social:

Indicator	Unit	2023
Total number of employees	person	294
Number of full-time employees	person	294
Number of part-time employees	person	0
Number of employees in China (the Chinese mainland)	person	293
Number of employees in China (Hong Kong, Macao and Taiwan) and foreign countries	person	1
Ratio of employees aged 30 and below	%	23.86
Ratio of employees aged above 30 to 50	%	73.60
Ratio of employees aged over 50	%	2.54
Ratio of employees with Ph.D.	%	1.36
Ratio of employees with master's degree	%	5.10
Ratio of employees with bachelor's degree or below	%	93.54
Number of employees in sales and marketing	person	83
Number of employees in product R&D	person	108
Number of employees in customer service	person	44
Number of employees in administration	person	59
Number of newly hired female employees	person	28
Number of newly hired male employees	person	68
Number of newly hired fresh graduate employees	person	33
Number of newly hired social recruitment employees	person	63

Indicator	Unit	2023
Turnover rate of male employees	%	1.70
Turnover rate of female employee	%	1.02
Turnover rate of employees aged 30 and below	%	1.36
Turnover rate of employees aged above 30 to 50	%	1.36
Turnover rate of employees aged over 50	%	0
Average number of paid vacation days per year	day	10
Employment contract coverage	%	100
Employee satisfaction rate	%	98
Employee training coverage	%	95
Training coverage of male employees	%	95
Training coverage of female employees	%	95
Training coverage of senior management employees	%	100
Training coverage of middle management employees	%	100
Training coverage of primary employees	%	95
Total length of training in the year	hour	4,420
Number of suppliers in China (the Chinese mainland)	—	53
Number of suppliers in North China	—	16
Number of suppliers in East China	—	29
Number of suppliers in South China	—	3
Number of suppliers in Central China	—	2
Number of suppliers in China (Hong Kong, Macao and Taiwan) and foreign countries	—	0
Number of supply chain risk events	—	0
Number of new product development projects in 2023	—	13
Number of patents applied in 2023	—	159
Number of patents authorized in 2023	—	92
Total number of patents authorized	—	140

Governance:

Indicator	Unit	2023
Meetings of Board of Supervisors held	time	0
Average tenure of Board of Supervisors members	year	2
Number of directors in the Board of Directors	—	5
Board meetings held	time	6
Average tenure of Board of Directors members	year	2

Appendix 2: Index of Indicators

GRI Disclosure Index

GRI Disclosure Index	Item	Chapter
GRI 2: General Disclosures 2021	2-1	Organizational details
	2-2	Entities included in the organization's sustainability reporting
	2-3	Reporting period, frequency and contact point
	2-6	Activities, value chain and other business relationships
	2-7	Employees
	2-8	Workers who are not employees
	2-9	Governance structure and composition
	2-10	Nomination and selection of the highest governance body
	2-11	Chair of the highest governance body
	2-12	Role of the highest governance body in overseeing the management of impacts
	2-13	Delegation of responsibility for managing impacts
	2-14	Role of the highest governance body in sustainability reporting
	2-15	Conflicts of interest
	2-16	Communication of critical concerns
	2-17	Collective knowledge of the highest governance body
	2-18	Evaluation of the performance of the highest governance body
	2-19	Remuneration policies
	2-20	Process to determine remuneration
	2-27	Compliance with laws and regulations
	2-29	Approach to stakeholder engagement

GRI Disclosure Index	Item	Chapter
GRI 3: Material Issues 2021	3-1	Process to determine material issues
	3-2	List of material issues
	3-3	Management of material issues
GRI 205: Anti-corruption 2016	205-2	Communication and training about anti-corruption policies and procedures
	205-3	Confirmed incidents of corruption and actions taken
GRI 206: Anti-competitive Behavior 2016	206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices
GRI 302: Energy 2016	302-1	Energy consumption within the organization
	302-3	Energy intensity
	302-4	Reduction of energy consumption
GRI 303: Water and Effluents 2018	303-1	Interactions with water as a shared resource
	303-2	Management of water discharge-related impacts
	303-3	Water withdrawal
	303-4	Water discharge
	303-5	Water consumption
GRI 305: Emissions 2016	305-1	Direct GHG emissions (Scope 1)
	305-2	Indirect GHG emissions from purchased energy (Scope 2)
	305-4	GHG emissions intensity
	305-5	Reduction of GHG emissions
	305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions
GRI 306: Waste 2020	306-1	Waste generation and significant waste-related impacts
	306-2	Management of significant waste-related impacts
	306-3	Waste generated
	306-4	Waste diverted from disposal
	306-5	Waste directed to disposal

GRI Disclosure Index	Item		Chapter
GRI 308: Supplier Environmental Assessment 2016	308-1	New suppliers that were screened using environmental criteria	Sustainable Supply Chain
	308-2	Negative environmental impacts in the supply chain and actions taken	
GRI 401: Employment 2016	401-1	New employee hires and employee turnover	Safeguarding Rights and Interests of Employees
	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	
	401-3	Parental leave	
GRI 403: Occupational Health and Safety 2018	403-1	Occupational health and safety management system	Safeguarding Rights and Interests of Employees
	403-2	Hazard identification, risk assessment, and incident investigation	
	403-3	Occupational health services	
	403-4	Worker participation, consultation, and communication on occupational health and safety	
	403-5	Worker training on occupational health and safety	
	403-6	Promotion of worker health	
	403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	
	403-8	Workers covered by an occupational health and safety management system	
	403-9	Work-related injuries	
	403-10	Work-related ill health	
GRI 404: Training and Education 2016	404-1	Average hours of training per year per employee	Key Performance Indicators (KPIs)
	404-2	Programs for upgrading employee skills and transition assistance programs	Safeguarding Rights and Interests of Employees
GRI 405: Diversity and Equal Opportunity 2016	405-1	Diversity of governance bodies and employees	Safeguarding Rights and Interests of Employees
GRI 406: Non-discrimination 2016	406-1	Incidents of discrimination and corrective actions taken	Safeguarding Rights and Interests of Employees
GRI 408: Child Labour 2016	408-1	Operations and suppliers at significant risk for incidents of child labour	N/A
GRI 409: Forced or Compulsory Labour 2016	409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labour	N/A

GRI Disclosure Index	Item		Chapter
GRI 414: Supplier Social Assessment 2016	414-1	New suppliers that were screened using social criteria	Sustainable Supply Chain
	414-2	Negative social impacts in the supply chain and actions taken	
GRI 416: Customer Health and Safety 2016	416-1	Assessment of the health and safety impacts of product and service categories	Based on Quality Service
	416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	
GRI 417: Marketing and Labeling 2016	417-1	Requirements for product and service information and labeling	Based on Quality Service
	417-2	Incidents of non-compliance concerning product and service information and labeling	
	417-3	Incidents of non-compliance concerning marketing communications	
GRI 418: Customer Privacy 2016	418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	Based on Quality Service

Appendix 3: Comments and Feedback

Dear reader:

Thank you for reading the Environmental, Social and Governance Report of Yingli Energy Development Co., Ltd. We highly value and look forward to hearing your feedback on the Company's ESG initiatives and this Report. You are invited to fill out the form below and share your feedback via mail or email. We warmly welcome and sincerely appreciate your opinion!

Feel free to leave your contact information:

Name:

Tel:

Company:

Email:

Your comments:

1. Your overall comment on this Report?

Excellent Good Average Below Average Poor

2. In your opinion, the structure of this Report is?

Highly Reasonable Reasonable Average Unreasonable Highly Unreasonable

3. In your opinion, the readability of this Report is:

Readable Readable Average Less Readable Unreadable

4. How would you rate the level of disclosure of the information you are concerned about in this Report?

Highly Comprehensive Fairly Comprehensive Partially Covered Barely Covered Not Covered

What other information that you are concerned about is not reflected in the report?

What suggestions do you have for our ESG report?